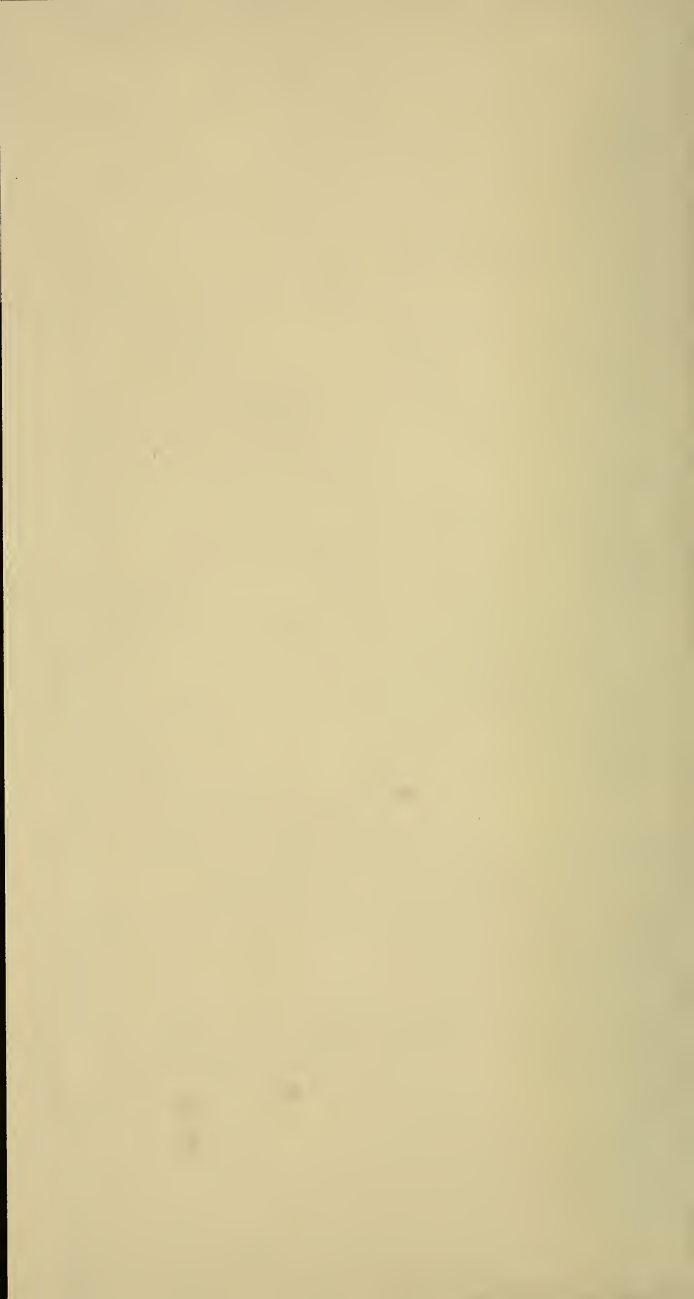


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THE  
**PATENTEE'S MANUAL;**

CONTAINING

**A LIST OF PATENTS**

GRANTED BY THE UNITED STATES

FOR THE

**ENCOURAGEMENT OF ARTS & SCIENCES,**

ALPHABETICALLY ARRANGED,

FROM 1790 TO 1830.

[TO BE CONTINUED BY SUPPLEMENTS.]

ALSO, THE

**Laws of Congress for granting Patents;**

WITH

A DIGEST OF ALL THE DECISIONS

*Which have taken place in the Courts of the  
United States respecting Patents.*

---

BY WILLIAM ELLIOT.

---

**City of Washington:**

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1830.

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*District of Columbia, to wit :*

BE IT REMEMBERED, that on the eighth day of March, in the year of our Lord one thousand eight hundred and thirty, and of the Independence of the United States of America the fifty-fourth, William Elliot, of the said District, hath deposited in the office of the Clerk of the District Court for the District of Columbia, the title of a book, the right whereof he claims as proprietor in the words following, to wit :

“THE PATENTEE’S MANUAL ;

Containing a list of patents granted by the United States for the encouragement of arts and sciences, alphabetically arranged, from 1790 to 1830. [to be continued by supplements.] Also the laws of Congress for granting patents ; with a digest of all the decisions which have taken place in the courts of the United States respecting patents. By WILLIAM ELLIOT.”

In conformity to the act of the Congress of the United States, entitled, “An Act for the encouragement of learning, by securing the copies of maps, charts, and books, to the authors and proprietors of such copies during the times therein mentioned,” and also to the act, entitled, “An Act supplementary to an act, entitled, ‘An Act for the encouragement of learning, by securing the copies of maps, charts, and books, to the authors and proprietors of such copies during the times therein mentioned,’ and extending the benefits thereof to the arts of designing, engraving, and etching historical and other prints.”

In testimony whereof, I have hereunto set my hand, and affixed [SEAL.] the public seal of my office, the day and year aforesaid.

EDMUND I. LEE,  
Clerk of the District Court for the Dist. of Columbia.

1-5407

## PREFACE.

EVER since the establishment of the Patent Office, the honest and ingenious inventor has found it very difficult to obtain that kind of information which should enable him to take out such a patent as would secure to him the exclusive use of his improvements according to the provisions of the patent laws. To take out a secure patent, it is absolutely necessary that the applicant shall ascertain, 1st, how far the invention is *new*; and 2dly, how far the *rights* of the public, and inventors are concerned.

To ascertain the first point, viz.: whether the invention be new, the applicant must consult the records and models of the Patent Office; and such other means of information as are afforded in Encyclopedias, and other works of science. For this purpose the list of patents herewith offered to the public will be found very useful: as it is only necessary for the applicant to refer to this alphabetical list, and he will there find the names and residences of all those who have taken out patents on the subject or subjects in which he is interested; and he must either visit the Patent Office, and examine the models and records for himself, or write to the Superintendent of the office for information: the first is certainly the best mode.

The second point, viz.: how far the rights of the public, and inventors are concerned, can only be ascertained by examining the decisions which have taken place in the courts of the United States; and for this purpose, the Digest herewith given will be found of great use. This part of the work is taken from "Coxe's Digest," a volume every way worthy of its distinguished author.

A correct copy of the patent laws of 1793 and 1800 are also herewith subjoined.

The subject of the Patent Office is again brought before Congress; and it is hoped it will meet with more attention than it has hitherto done. Mr. Adams, in his message to Congress in 1825, says, "The laws relating to the administration of the Patent Office are deserving of much consideration, and perhaps susceptible of some improvement;" and every day's experience proves the justice of the remark. In making these improvements the great objects of the Constitution and Law ought always to be kept in view, so that whatever is done ought to be, "to promote the progress of science and the useful arts, by securing for limited times, to authors and inventors the exclusive right to their respective writings and discoveries."

There is no institution in this country deserves more the attention of Congress than the Patent Office. For, by means of it, the genius of our country is brought out, fostered and pro-

ted; and the honor and interest of the nation are deeply concerned in having the duties of that Office ably discharged. For it entirely depends on the good or bad, on the wise or unwise administration of this office whether it is a blessing or a curse to the nation.

The greatest evil attending the patent law is, that, a number of idle, worthless persons, obtain patents for the most trifling objects, often neither *new* nor *useful*; and impose on the ignorant by a sort of license, signed by the President, Secretary of State, and Attorney General, under the title of "*patent*." Such men have collected millions of dollars from the honest farmer and mechanic; and filled our courts of law with vexatious suits.

To stop this growing evil it is suggested that the 9th section of the patent law of 1793, be so altered, or explained, as to prevent the issuing of patents for inventions that are not new and useful—'useful,' in contradistinction to frivolous and mischievous inventions. At present it stands, In case of interfering applications, three persons are to be appointed as arbitrators, whose decision as to the granting of the patent shall be final. Now, by considering a patent that has been already granted, and an invention already known, the same as interfering applications; then the matter would be settled by arbitration, as the law directs; and frivolous and improper patents would be prevented from being issued, and the public rights defended.

The first section of the patent law ought certainly either to be explained or altered: For it now says, "That any citizen of the United States, alleging that he has invented any new and useful art, machine, &c or an improvement upon such art and machine, which has not been known or used *before the application*, may petition, &c." Let Congress say what antecedent belongs to the word "*application*;" for as it now stands it proves a fruitful source of litigation.

And it would be well, perhaps, to add a new section to the patent law; allowing *caveats* to be entered for specific times, to prevent the ingenious being robbed of their inventions before they are perfected. This would also be the means of allowing time for taking out *perfect* patents at once; and which would not require patents for *amended specifications*, as at present, subjecting inventors to the payment of double patent fees.

W. E.

## PATENT LAWS.

*An ACT to promote the Progress of useful Arts; and to repeal the Act heretofore made for that purpose.*

SECT. 1. *Be it enacted by the Senate and House of Representatives of the United States of America, in Congress assembled,* That when any person or persons being a citizen or citizens of the United States, shall allege that he or they have invented any new and useful art, machine, manufacture, or composition of matter, or any new and useful improvement on any art machine, manufacture, or composition of matter, not known or used before the application, and shall present a petition to the Secretary of State, signifying a desire of obtaining an exclusive property in the same, and praying that a patent may be granted therefor, it shall and may be lawful for the said Secretary of State, to cause letters patent to be made out in the name of the United States, bearing test by the President of the United States, reciting the allegations and suggestions of the said petition, and giving a short description of the said invention or discovery, and thereupon granting to such petitioner or petitioners, his, her, or their heirs, administrators or assigns, for a term not exceeding fourteen years, the full and exclusive right and liberty of making, constructing, using, and vending to others to be used, the said invention or discovery, which letters patent shall be delivered to the Attorney General of the United States, to be examined; who, within fifteen days after such delivery, if he finds the same conformable to this act, shall certify accordingly at the foot thereof, and return the same to the Secretary of State, who shall present the letters Patent thus certified, to be signed, and shall cause the seal of the United States to be thereto affixed: and the same shall be good and available to the grantee or grantees, by force of this act, and shall be recorded in a book, to be kept for that purpose, in the office of the Secretary of State, and delivered to the patentee, or his order.

SECT. 2. *Provided always, and be it further enacted,* That any person, who shall have discovered an improvement in the principle of any machine, or in the process of any composition of matter, which shall have been patented, and shall have obtained a patent for such improvement, he shall not be at liberty to make, use or vend the original discovery, nor shall the first inventor be at liberty to use the improvement: and it is hereby enacted and declared, that simply changing the form or proportions of any machine, or composition of matter, in any degree, shall not be deemed a discovery.

SECT. 3. *And be it further enacted,* That every inventor, before he can receive a patent, shall swear or affirm, that he does verily believe, that he is the true inventor or discoverer of the art, machine, or improvement, for which he solicits a patent, which oath or affirmation may be made before any person authorized to administer oaths, and shall deliver a written description of his invention, and of the manner of using, or process of compounding the same, in such full, clear and exact terms, as to distinguish the same from all other things before known, and to enable any person skilled in the art or science, of which it is a branch, or with which it is most nearly connected, to make, compound, and use the same. And in the case of any machine, he shall fully explain the principle, and the several modes, in which he has contemplated the application of that principle or character, by which it may be distinguished from other inventions; and he shall accompany the whole with drawings and written references where the nature of the case admits of drawings, or with specimens of the ingredients, and of the composition of matter, sufficient in quantity for the purpose of experiment, where the invention is of a composition of matter; which descriptions signed by himself, and attested by two witnesses, shall be filed in the office of the Secretary of State, and certified copies thereof shall be competent evidence, in all courts, where any matter or thing, touching such patent right, shall come in question. And such inventor shall moreover, deliver a model of his machine, provided the Secretary shall deem such model to be necessary.

SECT. 4. *And be it further enacted,* That it shall be lawful for any inventor, his executor or administrator, to assign the title and interest in the said invention, at any time, and the assignee having recorded the said assignment, in the office of the Secretary of State, shall thereafter stand in the place of the original inventor, both as to right and responsibility, and so the assignees or assigns, to any degree.

SECT. 5. *And be it further enacted,* That if any person shall make, devise and use, or sell the thing so invented, the exclusive right of which shall as aforesaid, have been secured to any person by patent, without the consent of the patentee, his executors, administrators or assigns, first obtained in writing, every person, so offending, shall forfeit to pay the patentee, a sum that shall be at least equal to three times the price, for which the patentee has usually sold or licensed to other persons, the use of the said invention; which may be recovered in an action on the case founded on this act, in the circuit court of the United States, or any other court having competent jurisdiction.

SECT. 6. *Provided always, and be it further enacted,* That the defendant in such action shall be permitted to plead the general issue, and give this act and any special matter, of which notice in writing may have been given to the plaintiff or his attorney thirty days before trial, in evidence, tending to prove, that the specification filed by the plaintiff, does not contain the whole truth relative to his discovery, or that it contains more than is necessary to produce the described effect, which concealment or addition shall fully appear to have been made, for the purpose of deceiving the public, or that the thing, thus secured by patent, was not originally discovered by the patentee, but had been in use, or had been described in some public work, anterior to the supposed discovery of the patentee, or that he had surreptitiously obtained a patent for the discovery of another person: in either of which cases, judgment shall be rendered for the defendant, with costs, and the patent shall be declared void.

SECT. 7. *And be it further enacted,* That where any state before its adoption of the present form of government, shall have granted an exclusive right to any invention, the party claiming that right, shall not be capable of obtaining an exclusive right under this act, but on relinquishing his right under such particular state, and of such relinquishment, his obtaining an exclusive right under this act shall be sufficient evidence.

SECT. 8. *And be it further enacted,* That the persons, whose applications for patents, were, at the time of passing this act, depending before the Secretary of State, Secretary at War, and Attorney General, according to the act, passed the second session of the first Congress, entitled, "An act to promote the progress of useful arts," on complying with the conditions of this act, and paying the fees herein required, may pursue their respective claims to a patent under the same.

SECT. 9. *And be it further enacted,* That in case of interfering applications the same shall be submitted to the arbitration of three persons, one of whom shall be chosen by each of the applicants, and the third person shall be appointed by the Secretary of State; and the decision or award of such arbitrators, delivered to the Secretary of State, in writing and subscribed by them, or any two of them shall be final, as far as respects the granting of the patent: And if either of the applicants shall refuse or fail to choose an arbitrator, the patent shall issue to the opposite party. And where there shall be more than two interfering applications, and the parties applying shall not all unite in appointing three arbitrators, it shall be in the power of the Secretary of State to appoint three arbitrators for the purpose.

SECT. 10. *And be it further enacted,* That upon oath or affirmation being made, before the judge of the district court, where the patentee, his executors, administrators or his assigns reside, that any patent which shall be issued in pursuance of this act, was obtained surreptitiously, or upon false suggestion, and motion made to the said court, within three years after issuing the said patent, but not afterwards, it shall and may be lawful for the judge of the said district court, if the matter alleged shall appear to him to be sufficient, to grant a rule, that the patentee, or his executor, administrator or assign, shew cause why process should not issue against him to repeal such patent. And if sufficient cause shall not be shown to the contrary, the rule shall be made absolute, and thereupon the said judge shall order process to be issued against such patentee, or his executors, administrators or assigns, with costs of suit. And in case, no sufficient cause shall be shown to the contrary, or if it shall appear, that the patentee was not the true inventor or discoverer, judgment shall be rendered by such court for repeal of such patent; and if the party, at whose complaint the process issued, shall have judgment given against him, he shall pay all such costs, as the defendant shall be put to, in defending the suit, to be taxed by the court, and recovered in due course of law.



**SECT. 11.** *And be it further enacted,* That every inventor, before he presents his petition to the Secretary of State, signifying his desire of obtaining a patent, shall pay into the Treasury thirty dollars, for which he shall take duplicate receipts; one of which receipts he shall deliver to the Secretary of State, when he presents his petition, and the money, thus paid, shall be in full for the sundry copies to be performed in the office of the Secretary of State, consequent on such petition, and shall pass to the account of clerk-hire in that office. *Provided nevertheless,* That for every copy which may be required at the said office, of any paper composing any patent, that has been granted, the person obtaining such copy, shall pay at the rate of twenty cents, for every copy-sheet of one hundred words, and for every copy of a drawing, the party obtaining the same, shall pay two dollars; of which payments an account shall be rendered, annually to the Treasury of the United States, and they shall also pass to the account of clerk-hire in the office of the Secretary of State.

**SECT. 12.** *And be it further enacted,* That the act passed the tenth day of April, in the year one thousand seven hundred and ninety, entitled, "An act to promote the progress of useful arts," be, and the same is hereby repealed. *Provided always,* That nothing, contained in this act, shall be construed to invalidate any patent, that may have been granted under the authority of said act: and all patents under said act, their executors, administrators or assigns, shall be considered within the purview of this act, in respect of the violation of their rights, *Provided,* such violations shall be committed after the passing of this act.

JONATHAN TRUMBULL,  
*Speaker of the House of Representatives.*  
JOHN ADAMS,  
*Vice-President of the United States and  
President of the Senate.*

Approved,——February 21, 1793:

GEORGE WASHINGTON, *President of the United States.*

*An ACT to extend the privilege of obtaining patents, for useful discoveries and inventions, to certain persons therein mentioned, and to enlarge and define the penalties for violating the rights of Patentees.*

**SECT. 1.** *Be it enacted, by the Senate and House of Representatives of the United States of America, in Congress assembled,* That all and singular the rights and privileges given, intended or provided to citizens of the United States, respecting patents for new inventions, discoveries, and improvements, by the act, entitled "An act to promote the progress of useful arts, and to repeal the act heretofore made for that purpose," shall be, and hereby are extended and given to all aliens, who at the time of petitioning in the manner prescribed by the said act shall have resided for two years within the United States, which privileges shall be obtained, used, and enjoyed, by such persons, in as full and ample manner, and under the same conditions, limitations, and restrictions, as by the said act is provided and directed in case of citizens of the United States. *Provided always,* That every person petitioning for a patent for any invention, art or discovery, pursuant to this act, shall make oath or affirmation before some person duly authorized to administer oaths, before such patent can be granted, that such invention, art or discovery hath not, to the best of his or her knowledge or belief, been known or used either in this or any foreign country; and that every patent which shall be obtained pursuant to this act, for any invention, art or discovery, which it shall afterwards appear had been known or used previous to such application for a patent, shall be utterly void.

**SECT. 2.** *And be it further enacted,* That where any person hath made, or shall have made, any new invention, discovery, or improvement, on account of which a patent might, by virtue of this or the abovementioned act, be granted to such person, and shall die before any patent shall be granted therefor, the right of applying for and obtaining such patent, shall devolve on the legal representatives, of such person in trust for the heirs at law of the deceased, in case he shall have died intestate; but if otherwise, then in trust for his devisees, in as full and ample manner, and under the same conditions, limitations and restrictions, as

the same was held or might have been claimed or enjoyed by such person, in his or her life time, and when application for a patent shall be made by such legal representatives, the oath or affirmation provided in the third section of the before-mentioned act, shall be so varied as to be applicable to them.

Secr. 3. *And be it further enacted*, That where any patent shall be, or shall have been granted pursuant to this or the above-mentioned act, and any person without the consent of the patentee, his or her executors, administrators or assigns first obtained in writing, shall make, devise, use, or sell the thing whereof the exclusive right is secured to the said patentee by such patent, such person so offending shall forfeit and pay to the said patentee, his executors, administrators or assigns, a sum equal to three times the actual damage sustained by such patentee, his executors, administrators, or assigns, from or by reason of such offence, which sum shall and may be recovered, by action on the case founded on this and the above-mentioned act, in the circuit court of the United States, having jurisdiction thereof.

Secr. 4. *And be it further enacted*, That the fifth section of the above-mentioned act, entitled "An act to promote the progress of useful arts, and to repeal the act heretofore made for that purpose," shall be and hereby is repealed.

THEODORE SEDGWICK,  
*Speaker of the House of Representatives.*  
THOS. JEFFERSON,  
*Vice President of the United States, and  
President of the Senate.*

Approved—April 17th, A.D. 1800.

JOHN ADAMS, *President of the United States.*

## DIGEST OF DECISIONS ON PATENTS.

1. An assignee of part of a patent right cannot maintain an action in his own name, for a violation of the patent. *Tyler et al. v. Tuel*, 6 Cranch, 324.
2. The act of January 21st, 1808, ch. 117. (4 Bior. 135.) for the relief of Oliver Evans, does not authorize those who erected his machinery, between the expiration of his old patent and the issuing of the new one, to use it after the issuing of the latter. *Evans v. Jordan et al.* 9 Cranch, 199.
3. Under the sixth section of the patent law of February 21st, 1793, ch. 156. (2 Bior. 348.) the defendant pleaded the general issue, and gave notice that he would prove, at the trial, that the machine, for the use of which, without license, the suit was brought, had been used previous to the alleged invention of the plaintiff, at several places, which were specified in the notice, or some of them, "and also at sundry other places in Pennsylvania, Maryland; and elsewhere in the United States." The defendant having given evidence as to some of the places specified, held, that evidence as to other places, not specified, was admissible; but that the court possess the power, which will be exercised, to prevent the plaintiff from being injured by surprise. *Evans v. Eaton*, 3. Wheat. 454. 1 Peters, 322. S. C.
4. Testimony, on the part of the plaintiff, that the persons of whose prior use of the machine the defendant had given evidence, had paid the plaintiff for licences to use the machine, since his patent, ought not to be absolutely rejected, though entitled to very little weight. *Ibid.*
5. Although it is not settled whether, under the general patent law, improvements on different machines can be comprehended in the same patent, so as to give a right to the exclusive use of the several machines in combination; yet the act of January 21st, 1808, ch. 117. (4 Bior. 135.) for the relief of Oliver Evans, authorizes the issuing to him of a patent, for his invention, discovery, and improvements in the art of manufacturing flour, and in the several machines applicable to that purpose. *Ibid.*
6. The act of Congress for the relief of Oliver Evans does not purport to decide the fact that he was the original inventor, but leaves the question of invention and improvement open to investigation under the general patent law. *Ibid.*
7. Under the 6th section of the patent law of February 21, 1793, ch. 156.

(2. Bior. 348.) if the thing secured by patent had been in use, or had been described in a public work, anterior to the supposed discovery, the patent is void, whether the patentee had a knowledge of this previous use or description or not. *Ibid.* 1 Peters, 392. S. C.

8. Oliver Evans may claim under his patent the exclusive use of his inventions and improvements in the art of manufacturing flour and meal, and in the several machines which he has invented, and in his improvements in machines previously discovered. But where his claim is for an improvement on a machine, he must shew the extent of his improvement, so that a person, understanding the subject, may comprehend distinctly in what it consists. *Ibid.*

9. The act for the relief of Oliver Evans is engrafted on the general patent law, so as to give him a right to sue in the Circuit Court of the United States, for any infringement of his patent rights, although the defendant may be a citizen of the same state with himself. *Ibid.*

10. A party cannot entitle himself to a patent for more than his own invention; and if the patent be for the whole of a machine, he can maintain a title to it, only by establishing that it is substantially new in its structure and mode of operation. *Evans v. Eaton*, 7 Wheat. 356.

11. If the combinations existed before in machines of the same nature, up to a certain point, and the party's invention consists in adding some new machinery, or some improved mode of operation to the old, the patent should be limited to such improvement; for if it includes the whole machinery, it includes more than his invention, and therefore cannot be supported. *Ibid.*

12. Where a patent is taken out for an improvement, the specification ought to describe what the improvement is, and the patent should be limited to such improvement. *Ibid.* 1 Peters, 322. S. C. 3 Wash. C. C. R. 443.

13. It is no objection to the competency of a witness, in a patent cause, that he is sued in another action for an infringement of the same patent. *Evans v. Hettick*, 7 Wheat. 453.

14. The 6th sec. of the patent act of February 21, 1793. ch. 156. (2. Bior. 348.) which requires a notice of the special matter to be given in evidence by the defendant under the general issue, does not include all the matters of defence of which the defendant may avail himself; and where the question asked was, whether the machine used by the defendant was like the model exhibited in court of the plaintiff's patented machine, it was held that no notice was necessary to authorise the inquiry. *Ibid.*

15. Under the 10th section of the patent act of February 21, 1793, c. 156. (2. Bior. 348.) upon granting a rule by the judge of the District Court, upon the patentee, to shew cause why process should not issue to repeal the patent, the patent is not repealed *de facto*, by making the rule absolute: but the process to be awarded is in the nature of a *scire facias* at common law to the patentee to shew cause why the patent should not be repealed with costs of suit; and upon the return of such process, duly served, he proceeds to try the cause upon the pleadings filed by the parties and the issue joined thereon: if the issue be an issue in fact, the trial is to be by a jury; if of law, then by the court. *Ex parte Wood*, 9 Wheat. 603.

16. In such a case, a record is to be made of the proceedings antecedent to the rule to shew cause why process should not issue to repeal the patent, and upon which the rule is founded. *Ibid.*

17. The clause in the patent law authorising suits in the Circuit Courts stands on the principle that they are cases arising under a law of the United States.—*Osborn et al. v. Bank United States*, 9 Wheat. 733.

18. A. having obtained a patent for a new and useful improvement, *to wit*, a machine for making watch chains, brought an action under the 3d section of the patent act of April 17, 1800. c. 179. (3 Bior. 342.) against B. for an alleged violation of his patent right. On the trial an agreement was proved between the defendant and C. by which the former agreed to purchase of the latter all the watch chains, not exceeding five gross a week, which he might be able to manufacture in six months, and C. agreed to devote his whole time and attention to the manufacture of the watch chains, and not to sell or dispose of any of them so as to interfere with the exclusive privilege secured to the defendant of purchasing the whole quantity, which it might be practicable for C. to make: and it was proved that the machine used by C. with the knowledge and consent of the

defendant, in the manufacture, was the same as that invented by the plaintiff, and that all the watch chains thus made by C. were delivered to the defendant according to the contract. *Held*, that if the contract was real and not colourable, and if the defendant had no other connexion with C. than that which grew out of the contract, the facts proved did not amount to a breach by him of the plaintiff's patent right. *Keplinger v. De Young*, 10 Wheat. 358.

19. Such a contract, connected with evidence from which the jury might legally infer, either that the machine to be employed in the manufacture of the patented article was owned wholly or in part by defendant, or that it was hired to defendant for the time specified, under colour of a sale of the articles to be manufactured with it, and with intent to invade the plaintiff's patent right, would amount to a breach of his right. *Ibid.*

20. Under the patent act of February 21, 1793, ch. 156. (2 Bior. 348.) if the patentee has sold out a moiety of his patent right, a joint action lies by himself and his patentee for a violation of it. *Whittemore v. Cutter*, 1 Gallis, 429.

21. The making of a patented machine fit for use, and with design to use it for profit, in violation of the patent right, is of itself a breach of the patent right for which an action lies. *Ibid.*

22. If there be a mere making and no user proved, nominal damages are to be recovered. Where the law gives an action for a particular act, the doing of that act imports of itself a damage: every violation of a right imports some damage, and if none other be proved, the law allows a nominal damage. *Ibid. Whittemore v. Cutter*, *Id.* 476.

23. The taking of the oath required by the patent act, previous to the issuing a patent, is but a pre-requisite to the granting of the patent, and in no degree essential to its validity; and if not taken, still the patent is valid. *Id.* 429.

24. No defect or concealment in the specification will avoid the patent, unless it arose from an intention to deceive the public. *Ibid.*

25. The 6th sec. of the patent act does not enumerate all the defences of which the defendant may legally avail himself: he may give in evidence that he never did the act attributed to him, that the patentee is an alien not entitled under the act, or that he has a license or authority from the patentee. *Ibid.*

26. The first inventor is entitled to the benefit of his invention, if he reduce it to practice and obtain a patent therefore: and a subsequent inventor cannot, by obtaining a patent, oust the first inventor of his right, or maintain an action against him for the use of his own invention. *Woodcock v. Parker et al.* 1 Gal. 438

27. If the machine for which the patent was obtained, substantially existed before, and the plaintiff made an improvement only therein, he is entitled to a patent for the improvement only, and not for the whole machine: and where, under such circumstances, the patent comprehends the whole machine, it is too broad, and therefore void. *Ibid.*

28. It is not necessary to defeat the plaintiff's patent, that a machine should previously have existed in every respect similar to his own; for a mere change of former proportions will not entitle a party to a patent. *Ibid.*

29. If he claim a patent for a whole machine, it must in substance be a new machine; that is, it must be a new mode, method or application of mechanism to produce some new effect, or to produce an old effect in a new way. *Ibid.*

30. If one who has invented merely an improvement, take out a patent for the whole machine, his patent is too broad and utterly void. *Whittemore v. Cutter*, 1 Gallis. 476.

31. When a specific machine already exists, producing certain effects, if a mere addition is made to such machine, to produce the same effect in a better manner, a patent cannot be taken for the whole machine, but for the improvement only. *Ibid.*

32. In like manner, if to an old machine, some new combinations be added, to produce new effects, the right to a patent is limited to the new combinations. *Ibid.*

33. A patent can, in no case, be for an effect only, but for an effect produced in a certain manner, or by a peculiar operation. For instance, no patent can be obtained for the admeasurement of time, or the expansive operations of steam: but only for a new mode or new application of machinery to produce these effects: and therefore if new effects are produced by an old machine, in its unaltered state, no patent can be legally supported, for it is a patent for an effect only. *Ibid.*



34. On the other hand, if well known effects are produced by machinery, in all its combinations entirely new, a patent may be claimed for the whole machine.

[*Ibid.*]

35. So if the principles of the machine are new, either to produce a new or an old effect, the inventor may well entitle himself to the exclusive right of the whole machine. *Ibid.*

36. By the principles of a machine, as these words are used in the statute, is not meant the original elementary principles of motion which philosophy and science have discovered, but the *modus operandi*, the peculiar device or manner of producing any given effect. The expansive power of steam, and the mechanical powers of wheels have been understood for ages; yet a machine may well employ either the one or the other, and yet be so entirely new in its mode of applying them, as to entitle a party to his patent for his whole combination. *Id.*

37. It is not sufficient to give validity to a patent, that the specific machine, with all its combinations and effects did not exist before; for if the same effects were all produced by the same application of machinery in separate parts, and the party merely combined them together, or added a new effect, such combination would not sustain the patent; as the artist, who added a second-hand or repeater to a watch, could not have been entitled to a patent for the whole watch.

[*Ibid.*]

38. Nor will the patent be protected if the patentee was the inventor of all the material improvements in the old machine, if he suffered them to be used fully and freely, by the public at large, combined with all the usual machinery; for in such case, he must be deemed to have made a gift of them to the public. *Ibid.*

39. By the terms "actual damage" which the plaintiff may recover under the patent law, are meant such damages as he can actually prove, and has in fact sustained, as contradistinguished from mere imaginary or vindictive damages, which in personal torts are sometimes given. *Ibid.*

40. The rule of damages where the user of a machine is proved, should be the value of the use of such a machine, during the time of the illegal user. *Ibid.*

41. Where merely the making of the machine is proved, as no actual damages have been sustained, the jury should give only nominal damages. *Ibid.*

42. The jury are to estimate the plaintiff's single damages, and the court will treble them in awarding the judgment. *Ibid.*

43. The sale of the materials of a patented machine by the sheriff, on an execution against the owner, is not such a sale as subjects the sheriff to an action for an infringement of the patent right, under the patent act of April 17, 1800, ch. 179. (3 Bior. 342.) *Sawin et al. v. Guild*, 1 Gallis. 485.

44. The making of a patented machine, to be an offence within the purview of the patent act, must be the making with intent to use for profit, and not for the mere purpose of philosophical experiment, or to ascertain the verity and exactness of the specification. *Ibid.*

45. The original inventor of a machine is exclusively entitled to a patent for it. *Odiarne v. Winckley*, 2 Gallis. 51.

46. If another person invent an improvement on such machine, he can entitle himself to a patent for the improvement only; and does not thereby acquire a right to patent and use the original machine; and if he obtain a patent for the whole machine, and not for the improvement, only, his patent is too broad, and therefore void. *Ibid.*

47. The material question in patent causes, is, not whether the same elements of motion, or the same component parts are used, but whether the given effect is produced substantially by the same mode of operation, and the same combination of powers in both machines. Mere colourable differences or slight improvements cannot shake the right of the original inventor. *Ibid.*

48. It is a presumption of law that when a patent has been obtained, and the specifications and drawings recorded in the Patent Office, every person who subsequently takes out a patent for a similar machine, has a knowledge of the preceding patent. *Ibid.*

49. The proceedings under the 10th sec. of the patent act of February 21, 1793, ch. 156. (2 Bior. 348.) are in the nature of a *scire facias* at common law to repeal a patent. *Stearns v. Barrett*, 1 Mason. 153.

50. Upon a judgment rendered in the District Court on such a suit, error lies to the Circuit Court. *Ibid.*

51. *The scire facias* in such a case ought to contain a direct allegation or suggestion that the patent was obtained surreptitiously, or upon false suggestion, and to call upon the defendant for that cause only, to shew cause why the patent should not be repealed. *Ibid.*

52. In this proceeding the defendant's possession of the patent is so far *prima facie* evidence of his right as that the *onus probandi* is cast on the plaintiff, who is bound to prove that the patent was obtained surreptitiously or upon false suggestion. *Ibid.*

53. By the expression "true inventor" in the statute is undoubtedly meant the sole and exclusive inventor, for if the machine were the joint invention of several persons, neither of them could claim to be the true inventor, having an exclusive right to the patent, but the interest would be a joint or common interest in the whole. In such a case therefore, if a party were to obtain a patent for the invention, having sworn that he was the true inventor, he would, in the language of this act, obtain it upon "false suggestion," and as such false suggestion would be a surprise and fraud upon the government, it might well also be declared to be obtained "surreptitiously." *Ibid.*

54. If a patent has been obtained by the plaintiff upon the defendant's refusal to submit to an arbitration, according to the 9th sec. of the act of February 21, 1793, ch. 156. (2 Bior. 348) and the defendant subsequently obtain a patent for the same invention, this is not conclusive proof that the latter was obtained surreptitiously or upon false suggestion. *Ibid.*

55. The sole object of such an arbitration is to ascertain who is, *prima facie*, entitled to the patent, but when once obtained, the patent is liable to be repealed or destroyed by precisely the same process, as if it had been issued without objection. *Ibid.*

56. The law allows a party a patent for a new and useful invention, and by "useful invention" is meant, not an invention, in all cases superior to the modes now in use for the same purpose, but useful in contradistinction to frivolous and mischievous inventions. *Lowell v. Lewis*, 1 Mason, 182.

57. The patentee must describe in his patent in what his invention consists, with reasonable certainty, otherwise it is void for ambiguity. If it be for an improvement in an existing machine, he must in his patent, distinguish the new from the old, and confine his patent to such parts only as are new; for if both are mixed up together, and a patent is taken for the whole, it is void. *Ibid.*

58. But if the invention is definitely described in the patent, so as to distinguish it from what is before known, the patent is good, although the specification does not describe the invention in such full and exact terms, that a person skilled in the art or science of which it is a branch, would construct or make the thing invented; unless such defective description or concealment were with intent to deceive the public. *Ibid.*

59. As among inventors, he who is first in time has a prior exclusive right to the patent for the invention. *Ibid.*

60. In an action for the infringement of a patent right, the law gives to the plaintiff treble the actual damages sustained by him: and the rule is to allow him treble the amount of the profits actually received by the defendant, in consequence of his using the plaintiff's invention. *Ibid.*

61. The jury are to find the single damages, and the court to treble them in awarding judgment. *Ibid. Gray et al. v. James et al.* 1 Peters' C. C. R. 394.

62. By "useful invention" in the patent act of the United States, is meant an invention which may be applied to a beneficial use in society, in contradistinction to an invention which is injurious to the morals, the health or the good order of society. *Belford v. Hunt et al.* 1. Mason, 302. *Kneass v. Schuylkill Bank*, C. C. U. S. P. Oct. 1820. MS.

63. It is not necessary that the invention should be of such general utility, as to supersede all other inventions previously in practice, to accomplish the same purpose. *Ibid.* 1 Mason, 302.

64. Nor is it important that its practical utility should be very limited, for the law does not look to the degree of utility. *Ibid.*

65. The statute declares it to be a good defence to an action for the infringement of the patent right, that the thing secured by the patent was not originally discovered by the patentee, but had been in use, or had been described in some public work, anterior to the supposed discovery of the patentee. *Ibid.*

66. The first inventor, who has put the invention in practice, and only he, is entitled to a patent. Every subsequent patentee, although an original inventor may be defeated of his patent right, upon proof of such prior invention being put into use. *Ibid.*

67. Any patent may be defeated by shewing that the thing secured by the patent, had been discovered and put into actual use, prior to the discovery of the patentee, however limited the use or the knowledge of the prior discovery might have been. *Ibid.*

68. A joint patent may well be for a joint invention, but not for a sole invention of one of the patentees: if each of the patentees obtain separate patents for the same invention, as his exclusive invention, and afterwards both obtain a joint patent for the same as their joint invention, they are estopped by the joint patent, from asserting any title under the several patents. *Barret et al. v. Hull et al.* 1 Mason, 447.

69. If several patents are taken out by several patentees for a several invention, and the same patentees afterwards take out a joint patent for the same as a joint invention, the parties are not absolutely estopped from asserting the invention to be joint, but the former patents are very strong evidence against a joint invention. *Ibid.*

70. A patent may be for a new combination of machines to produce certain effects: and this whether the machines constituting the combination be new or old. But in such case, the patent being on the combination only, it is no infringement of the patent to use any of the machines separately, if the whole combination be not used. *Ibid.*

71. A patent cannot embrace various distinct improvements or inventions, but in such case the party must take out separate patents: and if the patentee has invented certain improved machines, which are capable of a distinct operation, and also has invented a combination of those machines to produce a connected result, the same patent cannot at once be for the combination and for each of the improved machines, for the inventions are as distinct as if the subjects were entirely different. *Ibid.*

72. If the patent be for an improved machine, or for an improvement of a machine, for the meaning of the terms is substantially the same, then the patent must state in what the improvement specifically consists, and it must be limited to such improvement. *Ibid.*

73. If therefore the terms be so obscure or doubtful that the court cannot say which is the particular improvement which the patentee claims, and to what it is limited, the patent is void for ambiguity; and if it covers more than the improvement it is void, because it is broader than the invention. *Ibid.*

74. Where a combination of machinery already exists up to a certain point, and the patentee makes an addition or improvement to the machinery, he must confine his patent to the improvement. *Ibid.*

75. If an invention consist in a new combination of machinery, or in improvements upon an old machine to produce an old effect, the patent should be for the combined machinery or improvements on the old machine, and not for a mere mode or device for producing such effects, detached from the machinery. *Ibid.*

76. An inventor cannot, under the patent laws of the United States, have two subsisting valid patents, at the same time, for the same invention. The first that he obtains, while it remains unrepealed, is an estoppel to any future patent for the same invention, founded upon the general patent act. *Odiarne v. The Amesbury Nail Factory*, 2. Mason, 28.

77. Where a party claims several distinct and independent improvements in the same machine, and procures a patent for them in the aggregate, he is entitled to recover against any person who shall use any one of the improvements so patented, notwithstanding there has been no violation of the other improvements. *Moody v. Fiske et al.* 2 Mason, 112.

78. Where a patent is for a new combination of existing machinery or machines, and does not specify or claim any improvements or invention, except the combination, unless that combination is substantially violate, the patentee is not entitled to any remedy, although parts of the machinery are used by another, because the patent, by its terms, stands upon the combination only. *Ibid.*

79. Where a patentee, in his specification, states and sums up the particulars of his invention, and his patent covers them, he is confined to such summary, and he

cannot afterwards be permitted to sustain his patent by showing that some part which he claims, in his summing up, as his invention, though not in fact his invention, is of slight value or importance in his patent. His patent covers it; and if it be not new, the patent must be void. *Ibid.*

80. The jury may, in a case for infringing a patent, give the plaintiff, as part of his actual damage, such expenses for counsel fees, &c. as have been necessarily incurred in vindicating the plaintiff's right by a suit, and which are not taxable in the bill of costs. *Boston Manufacturing Co. v. Fiske et al.* 2 Mason, 119.

81. An invention or improvement, for which a patent has been obtained, must be useful, within the meaning of the patent law, or the patent is void. *Langdon v. De Groot et al.* 1 Paine, 703.

82. Whether the usefulness of an invention be matter of fact to be left to the jury, or whether the court is to decide it as matter of law, *Query?* *Ibid.*

83. *It seems*, however, that if, on the plaintiff's own showing, the invention appears to be useless, and an imposition on the public, the court should so direct the jury. *Ibid.*

An invention of an ornamental mode of putting up thread, which gave it no additional value, but merely made it sell more readily at retail, and for a larger price, is not a useful invention within the meaning of the patent law. *Ibid.*

84. Under the patent act of February 21st, 1793, c. 156. (2 Bior. 348.) a patent is valid, although the invention may have been in use for years anterior to the date of the patent, if the patentee was the inventor. *Goodyear v. Matthews*, 1 Paine, 300.

85. A patent for an entire machine is valid, although the invention consists only of an improvement on such machine; but the patentee is entitled to an exclusive use of no more than his improvement. *Ibid.*

86. The first section of the patent act of February 21st, 1793, c. 156. (2 Bior. 348.) construed in connexion with the other sections of the act, means that the invention should not be known or used as the invention of any other person than the patentee, before the application for the patent. *Morris v. Huntingdon*, 1 Paine, 348.

87. If the invention has got into use while the inventor was practising upon it, with a view to improve it before applying for a patent, such use does not invalidate the patent; and the motive for the delay is a question for the jury. *Ibid.*

88. One who has patented his invention, cannot take out a new patent for the same invention, until the first is surrendered, repealed, or declared void. *Ibid.*

89. The obstacle of an invalid patent may be removed by having it declared void after a verdict against it, or by having a *vacatur* entered *ex parte* in the Department of State, on a surrender of the patent. But the provisions of the sixth section of the act do not enable a patentee to declare his own patent void, and a verdict in a suit on the second patent, in favour of such patent, does not avoid the first patent. *Ibid.*

90. *It seems*, that on surrendering a patent and taking out a new one, the latter should be only for the unexpired part of the fourteen years since obtaining the first patent. *Ibid.*

91. *Query?* Whether a new patent can be taken out where a patent has been declared void under the sixth section of the act. *Ibid.*

92. On an application for an injunction to restrain the infringement of a patent right, it should be stated, in the bill or by affidavit, that the complainant is the inventor, and the bill must be sworn to: it is not sufficient that this fact was sworn to when the patent was obtained. *Sullivan v. Redfield et al.* 1 Paine, 441.

93. To obtain the injunction, the case should be such as to leave little, if any doubt in the mind of the court, as to the validity of the patent; especially if it rests upon the complainant's own showing, without any opposing testimony. *Ibid.*

94. The act of February 15th, 1819, c. 430. (8 L. U. S. 369.) does not alter the principles on which injunctions are issued, but merely extends the jurisdiction of the Circuit Courts to parties to whom it did not before extend. *Ibid.*

95. The established rules which govern courts of equity on such applications, are, that where there has been an exclusive possession of some duration, under the patent, an injunction will be granted without putting the party previously to establish the validity of his patent at law; but when the patent is recent, and it is attempted to be shown that the specification is bad, or otherwise that the patent ought not to have been granted, the court will not take the decision upon itself, but will send the party to establish his patent at law. *Ibid.*



96. A patent for an improvement should describe the machine in use, that it may be known in what the improvement consists. *Ibid.*

97. One had patented "a new and useful improvement in the steam tow boat;" but the specification did not mention the invention as an improvement, but simply described a tow boat: *Held*, that the specification was broader than the patent, and therefore bad. *Ibid.*

98. The invention should be so clearly described as to enable the public to put it in use. *Ibid.*

99. The specification described the invention as "consisting essentially in attaching the packet to the steamboat, with ropes, chains, or spars, so as to communicate the power of the engine from the towing vessel to the vessel taken in tow, and kept always at convenient distance; the manner of applying the power varying with the circumstances in some measure." *Held*, bad for uncertainty. *Ibid.*

100. To obtain a patent under the laws of the United States, the party must be the original inventor in reference to the whole world, it is not sufficient that he be the first inventor within the United States. *Reutgers v. Kanowers et al.* 1. Wash. C. C. R. 168. *Evans v. Eaton*, 1 Peters' C. C. R. 323.

101. One who is the inventor of an improvement in the principle of a machine, has the same right to the use of it, as the inventor of the original machine had to that: *aliter* if it be only in the form or proportion. *Ibid.* *Grey et al. v. James et al.* 1 Peters' C. C. R. 394.

102. It is for the jury to decide whether the specification discloses the whole truth relative to the discovery, or whether any thing material has been concealed with intent to deceive. *Ibid.*

103. Where the patentee grants the machine, or agrees to deliver it, he cannot recover damages for the use of it against his grantee, for the agreement implies necessarily the right to use it in any manner the grantee pleases, or to rent it to another. *Ibid.*

104. Where a suit is brought against A. and B. for the infringement of a patent right, the plaintiff may recover against one, though no proof is given against the other, for all torts are joint and several, and plaintiff may recover against one defendant, though the other be acquitted. *Ibid.*

105. It is a sufficient objection to the validity of a patent, that the allegations and suggestions of the petition are not recited in it. *Evans v. Chambers*, 2 Wash. C. C. R. 125.

If they be substantially set forth, it is a sufficient compliance with the requisitions of the law. *Ibid.*

106. In order to entitle the plaintiff to recover for a violation of his patent right, the fact must be made out to the satisfaction of the jury, that he was the original inventor in relation to every part of the world: nor is it material, provided the same invention had been previously made, any where else, that the plaintiff knew of such prior discovery. *Dawson v. Follen*, 2 Wash. C. C. R. 311.

107. Under the act of Congress, of January 21, 1808, ch. 117. (4 Bior. 135.) and a patent taken out pursuant to it, Oliver Evans might recover damages for the use of a machine violating his patent, after notice of the patent, although the machine might have been constructed prior to the passing of the law.—*Evans v. Weiss*, 2 Wash. C. C. R. 342. 3 Hall's Am. L. Journ. 180. S. C.

108. Under the general patent law, the plaintiff has a right to recover against a person who erected a machine prior to the issuing of a patent, and made use of it afterwards. *Ibid.*

109. The patentee of an invention, notwithstanding he had given the benefit of his invention to another, may recover for the violation of his patent, not having assigned away his whole title and interest in it, and no deed of assignment having been recorded in the office of the Secretary of State. *Park v. Little et al.* 3 Wash. C. C. R. 196.

110. In an action for the violation of a patent right, the declaration need not aver that the preliminary steps to obtain a patent, were taken, because if it aver that the patent was granted in the form prescribed by law, the court, upon demurrer, will presume that every thing was rightly done to obtain it. *Ex'rs. of Fulton v. Myers*, C. C. U. S. P. Oct. 1818. MS.

111. But it is fatal on general demurrer, if the declaration omit to aver that a patent did issue; it is not sufficient to allege it was made out in due form, under the seal and in the name of the United States, by which there was granted, &c.

The law prescribes that the patent so made out shall be delivered to the petitioner, and that no person can receive it till he has taken the oath and made the disclosure required in the 2d section. *Ibid.*

112. It is necessary to aver the attestation of the President, and it is not to be presumed from the foregoing general allegation. *Ibid.*

113. The certificate of the Attorney General forms no part of the patent. *Ibid.*

114. It is not necessary that the declaration should particularly designate in what the improvement consists; it is sufficient that the breach stated be as broad as the right set forth in the declaration and granted in the patent. *Ibid.*

115. In an action for the violation of a patent, where the patent and specification are so ambiguous as to leave it uncertain whether the grant is for an improvement in the making a certain instrument, or in the mode of using it, the affidavit may be referred to, for the purpose of explanation. *Pettibone v. Derringer*, C. C. U. S. P. Oct. 1818. MS.

116. If two machines be substantially the same, operating in the same manner to produce the same result, though they vary in forms, proportions and degrees of utility, they are the same in principle, and the discoverer of the latter is entitled to a patent only for an improvement. *Evans v. Eaton*, 3 Wash. C. C. R. 443.

117. In an action for the violation of a patent, the defendant, under the general issue, without notice of the special matter may give in evidence the act of Congress, respecting patents, as well as some other matters than those enumerated in the sixth section; such as alienage of plaintiff, and license by him to use the invention. But he cannot give in evidence that the invention is not new, nor can that circumstance however apparent, be judicially noticed by the jury. *Kneass v. Schuylkill Bank*, C. C. U. S. P. Oct. 1820. MS.

118. Under the general issue defendant cannot give evidence of any of the grounds of defence enumerated in the sixth section, but he may make objections to the validity of the patent of a different kind, such as the want of a specification or written description as required by the 3d section, or a specification ambiguous and unintelligible, which is the same as no specification. *Ibid.*

119. These are defects in the plaintiff's title, apparent upon the face of the documents, on which the title is founded. On the same ground, defendant may object that the patent is broader than the discovery; that it is for an improvement which is not distinguished in the specification from the original invention; that the suggestions of petition are not recited substantially in the patent. *Ibid.*

120. A mistake of the word *painting* for *printing* in the patent is immaterial, if explained, by other parts of the patent and specification, so that there can be no mistake. *Ibid.*

121. It is no objection to the validity of a patent that the mode of performing an operation, common and well known, is not described. *Ibid.*

122. An action for the violation of a patent right may be sustained against a corporation, when acting in that character, it directs an act to be done, which infringes the patent. *Ibid.*

123. Upon a plea of not guilty, the plaintiff must prove, not only that defendant has made a machine, but that it substantially resembles that for which the plaintiff had a patent. *Dixon v. Mayor*, C. C. U. S. P. April, 1821. MS.

124. It is not a defence that plaintiff was not himself the original projector of the improvement, if the patent was taken out with the knowledge and assent of the original projector and not in fraud of his right. *Ibid.*

125. The plaintiff must in all cases prove an infringement of his right subsequent to the date of his application, or patent; but if defendant attempts to avoid the patent, by shewing that plaintiff was not the original discoverer, the patent will be considered as relating back to the original discovery. *Ibid.*

126. It lies on the defendant to shew that some other person than the patentee was the original inventor; it is the point of his defence and he must substantiate it. *Ibid.*

127. It is not enough that the thing designed to be embraced by the patent should be made apparent on the trial, by a comparison of the new with the old machine. The patent or specification must distinguish the new from the old, so as to point out in what the improvement consists. *Ibid.*

128. Under a notice that the defendant will prove the prior use of the machine in the United States, he will not be permitted to give evidence of a prior use in England. *Ibid.*

129. In patent causes, the rule is to grant an injunction on filing of the bill and before a trial at law, if the bill state a clear right, and verifies it by affidavit. *Isaacs v. Cooper*, C. C. U. S. P. Oct. 1821. MS.

130. If it state an exclusive possession of the invention, the injunction is granted, though the court may entertain doubts as to the validity of the patent. *Ibid.*

131. But if there be glaring defects in the patent or specification, it is refused. *Ibid.*

132. Where the patent is modern, and objections are made to the patent or specification, the court will not act till the right is established at law, which the court will order. *Ibid.*

133. If the bill does not set forth a possession by the plaintiff of his invention, at any particular time, it is defective. *Ibid.*

134. If the answer denies that defendant uses plaintiff's invention, the injunction will be refused. *Ibid.*

135. In an action for the violation of a patent right, it is sufficient under the plea of the general issue, for the defendant to give notice that the plaintiff is not the inventor of the machine for which the patent was obtained, if that constitutes the defence, without stating in the defence who was the inventor, or who had previously used the machine. *Evans v. Kremer*, 1 Peters' C. C. R. 215.

136. If in such notice the defendant specifies some persons who used the machine, he may prove the use of it, by others not named in the notice. *Ibid.*

137. A legislative grant of an exclusive privilege in an invention, for a definite period, does not imply an irrevocable contract with the people, that at the expiration of the period the invention shall become their property. The legislature may revive the grant, but if they refuse to do so, at the end of the period the invention may be used by any one. *Evans v. Eaton*, 1 Peters' C. C. R. 322.

138. The patent granted to O. Evans, contains no grant of a right to the several machines, but is confined to the improvements in the art of manufacturing flour by those machines; although the act of Congress, authorizing the grant of the patent, authorized it to be issued for the several machines, as well as for the entire improvement. *Ibid.*

139. The schedule annexed to letters patent, is part of the patent, so far as it is a description of the machine, but no farther. *Ibid.*

140. A patent may be for a new and useful act: but it must be practicable and explicable, and referable to something which may prove it to be useful. *Ibid.*

141. The grant of an exclusive privilege by the patent, can be only for the discovery recited and described in the patent and specification. *Ibid.*

142. A machine or an improvement may be new and entitled to a patent, although parts of it were before known and used. *Ibid.*

143. The combinations of old machines to produce a new and useful result, is a discovery for which a patent may be granted. *Ibid.*

144. One who has obtained a patent for such a combination, cannot recover in an action against one for using one of the known machines of which the combination is formed. *Ibid.*

145. There is no limitation to the period in which the defendant, under the general issue, may give in evidence that the patentee was not the original inventor. *Ibid.*

146. Where two machines are substantially the same, and operate in the same manner to produce the same result, they must be in principle the same. *Gray et al. v. James et al.* 1 Peters' C. C. R. 394.

147. A patent "for an improvement in the art of making nails, by means of a machine which cuts and heads the nail at one operation," is not a grant of an abstract principle, nor is it the grant of the different parts of any machine, but of an improvement applied to a practical use, effected by a combination of various mechanical powers to obtain a new result. *Ibid.*

148. It is not sufficient to invalidate a patent that the specification is materially defective, unless the patentee intended by concealment of parts of the machine to deceive; and where practical mechanics are enabled to supply any omission in the specification, such an intention will not be presumed. *Ibid.*

149. After a patent has been obtained for an invention or discovery, the disuse of it by the patentee is not an abandonment of the rights of the patentee to the same, but they continue for fourteen years from the date of the patent. *Ibid.*

150. There being no act of Congress conferring on the Circuit Courts of the United States, a right to take cognizance, as a court of equity, of a case under the patent law, between citizens of the same state, that court cannot take cognizance of such a cause. *Livingston et al. v. Van Ingen et al.* 4 Hall's Am. L. Jour. 56.

151. Drawings annexed to a specification, and referred to by numbers or letters in the specification, constitute a part of the specification, and may be referred to in aid of the description to give it certainty. *Parl v. Sawyer*, 4 Mason.

152. A combination, though simple and obvious, yet if entirely new, is patentable; and it is no objection, that up to a certain point old machinery is made use of. *Ibid.*

153. A patentee cannot maintain a suit, after he has made an assignment, for any violation of his patent; but the suit must be brought by the assignee. *Ibid.*

154. An assignment made before the patent is obtained, is good, and binds the right. *Herbert v. Adams*, 4 Mason.

155. The patent law of the United States differs from that of England in many respects. A mere public use by others, before taking out a patent, on a sale thereof by the inventor, is not decisive against him here as it is in England.—*Millers v. Sitsbee.* *Ibid.*

156. An inventor may abandon his invention and surrender it to the public. This inchoate right once gone cannot afterwards be resumed at pleasure. *Pennock and Sellers v. Dialogue*, 2 Peters'.

157. The true meaning of the words in the patent law, "not known or used before the application;" is, not known or used *by the public*, before the application. *Ibid.*

158. An inventor is not permitted to hold back, for a long period of time, his invention; enjoying a monopoly: as this would retard the progress of the useful arts. *Ibid.*

159. A patent is not sustainable in law when the first suggestions of the patentee for obtaining it were not true. *Ibid.*

160. The true construction of the patent law is, that the first inventor cannot acquire a good title to a patent, if he suffer the thing invented to go into public use, or be publicly sold for use, before he make application for a patent. This voluntary act, or acquiescence in the public sale or use is an abandonment of his right; or rather, creates a disability to comply with the terms and conditions of the law; on which alone a patent can legally be granted. *Ibid.*

## APPLICATION FOR A PATENT.

### PETITION.

*To A. B. Secretary of State of the United States.*

The petition of C. D. of —, in the County of —, and State of —, respectfully represents—

That your petitioner has invented a new and useful improvement in —, not known or used before his invention, the advantages of which he is desirous of securing to himself and his legal representatives, he therefore prays that letters patent of the United States may be issued, granting unto your petitioner, his heirs, administrators or assigns, the full and exclusive right of making, constructing, using and vending to others to be used, his said improvement; your petitioner having paid — dollars into the treasury of the United States, and complied with other provisions of the patent law. C. D.

County of —, }  
State of —, } ss. [OATH.]

On this — of —, 183—, before the subscriber, a justice of the peace, in and for the said county, personally appeared the aforesaid C. D., and made solemn oath [or affirmation] according to law, that he verily believes himself to be the true and original inventor, or discoverer of the machine (art, invention, or improvement, composition of matter, etc.) above specified and described; and that he is a citizen of the United States.

— —, Just. Peace.

The specification, signed before two witnesses, is accompanied by a model, perspective drawing or drawings and references; all of which are filed in the Patent Office; unless duplicate drawings are sent, then one is affixed to the patent.



AN

# ALPHABETICAL LIST

OF ALL

## PATENTS AND PATENTEES

ON RECORD IN THE PATENT OFFICE.

### A

Ashes, pot and pearl. Samuel Hopkins	- - -	July 31, 1790
Ashes, pot and pearl, furnace for. Edward Ryan	- - -	April 29, 1793
Ash, pot, improvement in manufacturing. Edward Ryan	- - -	Nov. 19, 1796 <sup>x</sup>
Ash, pot, manufacturing. William Forbisher	- - -	Nov. 17, 1796
Alkali, from marine salt, extracting from kelp. John Nazro	- - -	July 6, 1797 <sup>+</sup>
Axes, improvement in sharpening. John Shotwell	- - -	March 16, 1799
Air Pump, ventilator forships	- - -	
———, for mines, &c. Richard Robotham	- - -	Oct. 10, 1801
Antibilious Pills. Thomas H. Rawson	- - -	July 24, 1802
Astronomical Quadrant. Matthew C. Groves	- - -	Sept. 3, 1802
Antibilious stomach cordial. Simon Lazarus	- - -	Dec. 21, 1802
Apples, machine for paring. Moses Coates, Coatsville, Penn.	- - -	Feb. 14, 1803
Antiseptic gas, improvement in the mode of obtaining. Peter De La Bigre, and J. B. M. Picornell	- - -	March 24, --
Antibilious Pills. Thomas H. Rawson, New London, Conn.	- - -	April 4, --
Alcohol, improvement in the method of distilling. Lemuel J. Hilborn, Freehold, N. York, and Biddis, Philadelphia	- - -	June 4, --
Air, or Bellows Pump, for raising water. Daniel M. Miller	- - -	March 5, 1804
Auger, improvement. Christopher Hoxie	- - -	July 12, 1804
Ashes, mode of manufacturing. Joseph Bellows, jun. and Eben. White	- - -	Dec. 29, --
Andirons, improvement in. John Stickney, Baltimore	- - -	May 4, 1805
Anti-Stream-Boat. Wm. Wadsworth, Hartford, Connecticut	- - -	July 17, 1806
Artificial Slate, or Tile. Thomas Woodsend	- - -	Aug. 7, --
Auger, improvement in. William Hale, Champlain, New York	- - -	Feb. 7, 1807
Axle, and box of carriages. Cyrenus Beach, New Jersey	- - -	June 26, --
Anglet for taking and laying down angles. B. Dearbon, Boston	- - -	April 29, 1808
Alarm Bell for fire engines. James P Parke, Philadelphia	- - -	Dec. 19, --
Astronomical Time-keeper. Theodore Newell, Sheffield, Mass.	- - -	July 7, 1809
Auger. See Screw. Ezra L'Hommidieu.	- - -	
Apples, machine for pairing. Steph. Cruttenden, Guilford, Conn.	- - -	Aug. 25, --
Auger for mining. Perkin Nichols, Boston	- - -	May 18, 1810
Auger. Stetson and M. Solree, Georgetown, Ken.	- - -	Dec. 11, 1810

Apples, machine for coring and quartering.	Cyrus Gates, Rutland county, Virginia	Dec. 15, 1810
Andirons and fire places.	John Sweet, Berkshire, Mass.	Feb. 26, 1811
Air, draught, Subignies.	Samuel Randall, Providence	March 12, --
Air flue for a chimney.	James Macombes, Greenwich, N. Y.	Nov. 19, --
Air, difference of rarefied and unrefined.	Sam. Morey, Phil.	April 8, 1813
Acids, mode of preparing vegetable.	Nath. S. Allison and B. Hugler, Philadelphia	June 5, --
Asclepias, manufacture the.	George Smith, New York	May 28, 1813
Augers.	Martin Howe, New York	April 2, 1814
Andirons.	Willaby Dexter, Winchester, Connecticut	May 17, --
Alarm Bell.	Ben. E. Freymuth, Philadelphia	Dec. 22, --
Auger.	Joseph Brownwell, Otsego, New York	May 16, 1815
Ashes, pot and pearl.	Jacob Latting, New York	April 26, 1816
Alternate lift for bricks and mortar.	Ben. Dearbon, Boston	June 20, 1816
Auger, single twist screw.	Ezra L'Hommedieu, Norwich, Conn.	July 17, --
Anvil and hammer,	Charles Josselyn, Pembroke, Mass.	Oct. 9, --
Alum made from Lignite.	Genit Twost, Philadelphia	March 3, 1817
Anti-attribution, compound.	Edward Motts, Philadelphia	Oct. 4, --
Archimedian Screw.	Jeremiah Black, North Penn.	Jan. 17, 1818
Auger to bore rectilinear holes.	Cyrus Jackson, Butternuts, N. Y.	Feb. 14, --
Aromatic Steam Bath.	J. Deverin & J. B. Isabelle, Lexington, Ken.	July 6, --
Asiatic Lenitive.	Ez. Audler, New York	Oct. 26, --
Anti-friction Bush.	James Rudder, Norfolk, Virginia	Feb. 6, 1819
Axle, moveable.	Geo. N. Reynolds, Charleston, S. C.	April 29, 1819
Auger, tube	Robert Thomas, Richmond co. N. C.	May 22, --
Auger, twisted screw.	Wm. Holmes, Winchester, N. H.	April 4, 1820
Aqueduct pipes made of marble.	Thos. B. Robbins, Stockbridge, Mass.	March 19, 1821
Anti-dyspeptic Pills.	George Smith, New York.	August 7, --
Andirons, improvement in.	William Pye, New York,	Nov. 16, --
Anti-dysenteric medicine.	John G. Voight, Rochester, N. York	Dec. 4, --
Anti-dysenteric pills.	J. C. M. Brockway, Lyme, Conn.	March 13, 1822
Auger, for boring post holes.	Christopher Hoxie, Hudson, N. Y.	July 26, 1824
Apple cutting machine.	Andrew Glendening, Loudon co. Va.	Sept. 9, --
Apples, machine for grating or grinding.	Joel Farnham, Tio. N. Y.	June 28, 1825
Auger, improvement in the strap.	Silas Gore, Shesequin, Penn.	July 20, --
Augers, mode of turning any number.	Hardin Branch, N. York	Aug. 7, 1826
Auger, imp't applied to the.	Joseph H. Schreiner, Philad'a	Aug. 17, --
Anthracite coal applied to generating steam.	Daniel Collings and James D. Gallup, Wilkesbarre, Pennsylvania	Oct. 12, --
Auger for boring hubs, imp't in the.	Sheldon Cadwell, Windham, Connecticut,	Nov. 20, --
Andirons, pedestal feet for.	Edmund Smylie, New-York,	Feb. 1, 1827
Do.	Do.	Feb. 22, --
Apples, machine for grinding.	H. E. Paine, and S. H. Russell, Le-Roy, Geauga county, Ohio,	March 5, --
Andirons, casting the feet of brass.	John Griffiths, New-York,	March 15, --
Alcohol, mode of extracting by steam.	Anson and Norman Wolcott, Bloomfield, New-York,	March 19, --

## B

Bark, extract of.	John Biddes and Thomas Bidwell, Phil.	Aug. 10, 1791
Bedstead.	Ludering Conrad Khun, Phil.	Aug. 10, --
Bellows.	James Rumsey, Berkly county, Va.	Aug. 26, --
Boats, manufacturing.	Peter Gordon, Phil.	Aug. 10, --
Boats, propelling.	Henry Voight, Phil.	Aug. 10, --
Bark and Wood Sawing.	Thomas Harrington, Boston	May 9, 1793
Bricks, making.	David Ridgeway, Phil.	March 7, --

Bricks, manufacturing of.	Christopher Bolls, New-York	-	Jan. 26,	1793
Bricks, manufacturing of.	Apollos Kinsley, New-York	-	Feb. 1,	-
Bells, construction and tone of	Robert Leslie, Phil.	-	Feb. 2,	-
Bricks and Pan-tiles, manufacture of.	Sam. Brower, New-York	-	Aug. 7,	-
Boats, Vessels and Carriages, machine for propelling.	Abijah Babcock, Ohio	-	Dec. 2,	-
Boats, improvement in propelling.	Josiah Shackford,	-	March 21,	1794
Bellows, construction of.	James Drake, New Jersey	-	May 19,	-
Bark, grinding of.	John Mackley, Penn.	-	July 19,	-
Boats, improvement in propelling.	Daniel Keller, Penn.	-	May 25,	1795
Boats and Vessels, propelling.	Wm. Peter Sprangue, Penn.	-	June 19,	-
Boiler for generating steam.	See <i>Steam</i> .			
Bricks, tempering mortar for and making of.	A. Kinsley, N. Y.	-	Dec. 20,	-
Beans, cultivating.	See <i>Corn</i> .			
Bolting Cloths, improvement in.	Robert Dawson, Del.	-	May 12,	1796
Bolts and round iron, improvement in forging.	Clement Rcntgen,	-	Nov. 17,	-
Boards.	See <i>Shingles</i> .			
Boiling.	See <i>Cooking</i> .			
Books and paper.	See <i>Ruling</i> .			
Bridges, improvement in.	Charles W. Peale	-	Jan. 21,	1797
Bridges, improvement in.	John Fowler	-	Feb. 24,	-
Boats and Vessels, propelling.	Jehosaphat Starr	-	April 28,	-
Bridges, improvement in.	John Stickney	-	June 3,	-
Bellows, pendulous, &c.	Benjamin Wyncoop	-	June 26,	-
Brick, tiles, &c. improvement in.	John Hawkins	-	July 11,	-
Butter, preserving.	Moses Johnson	-	June 30,	-
Bridges, improvement in.	Timothy Palmer	-	Dec. 7,	-
Boats, &c. machine for propelling.	John Martin	-	Nov. 21,	-
Bread, improvement in making.	William Banks	-	Dec. 14,	1798
Balloon, Federal.	Moses M'Farland	-	Oct. 28,	1799
Boat for descending rapid streams.	Daniel Keller	-	Nov. 5,	-
Boots and shoes, manufacturing of.	Dean Howard	-	April 10,	1800
Bricks and tiles, machine for making.	George Hadfield	-	May 15,	-
Bricks, improvement in making.	Richard Mansfield	-	Oct. 24,	-
Brewing with Indian corn.	Alexander Anderson, Phil.	-	Jan. 26,	1801
Boats to ascend rivers, improvement in.	David Grieve	-	Feb. 20,	-
Boring machine for posts.	Richard Weems, Annapolis, Md.	-	March 16,	-
Bark for dyeing, extract of.	Samuel Downing, Trenton, N. J.	-	June 12,	-
Beaming machine.	Ier. Ladd, Charleston, N. H.	-	July 17,	-
Boxes for carriages, improvement in.	Thos. B. Whitlock, Mount Pleasant, N. J.	-	Feb. 23,	1802
Bark, machine for cutting and grinding.	Jacob Worrel,	-	March 17,	-
Block making.	See <i>Lathe</i> .			
Bricks, machine for making.	Ezekiel	-	July 17,	-
Boiling Cistern, improvement in.	Timothy Kirk	-	Dec. 20,	-
Boat, insubmersible.	Ab. Du Buc Marentille	-	Dec. 23,	-
Boiler for accelerating the evaporation of liquids.	J. Muffot	-	Feb. 1,	1803
Brandy, mode of making from all kinds of grain or fruit.	Christopher J. Hutter	-	Feb. 11,	-
Boats, improvement in building.	William Hopkins, Norfolk, co. Virginia	-	May 13,	-
Bellows for a furnace or forge, improvement in working.	John Godfrey	-	May 25,	-
Barks, &c. improvement in the mode of extracting for dyeing.	T. Bedwell and Wm. Mitchell	-	June 7,	1803
Breaking and carding.	See <i>Wool</i> .		June 28,	-
Boring holes in rocks under water, machine for.	John Baptiste Aveilhe	-	Aug. 24,	-
Boilers, improvement in; also working stills with the same.	Wm. Thornton, Washington city, D. C.	-	Oct. 28,	-
Bellows pump, dry.	Enoch Alden	-	Nov. 15,	-

- Brick and Tile, machine for making by cutting the mortar. Nath. Miller and Philip W. Miller - - - - June 5, 1804
- Bedstead, improvement in. Ward Gilman and W. Jackson March 19, -
- Buttons, improvement in manufacturing. George W. Robinson, Providence, Rhode Island - - - - March 19, --
- Breaking and cleansing flax and hemp, machine for. O. Roberts, Baltimore - - - - April 12, -
- Bell, sheep. See *Cow or Sheep*.
- Black oak bark. See *Quercitron*.
- Boring gun barrels, machine for. Nathan Forbes, Providence, Rhode Island - - - - Dec. 31, --
- Bilious cordial, medicinal. Sam. Chamberlaine - - - - Dec. 31, --
- Beaming machine. Allen Hill, Hinsdale, Mass. - - - - May 6, 1805
- Bark mill. Thomas W. Pryor, Philadelphia - - - - May 21 -
- Brick, apparatus for. See *Tiles*.
- Boiling, method of, for distilling, &c. ——— Eggleston, Princetown, Albany, N. Y. - - - - May 27, --
- Boilers, mode of setting. Eben Jenks, Portland, Maine - - - - June 1, --
- Bellows boards, machine for plaining and sawing. John Hinman, New Haven, Conn. - - - - June 1, --
- Bolts, mode of casting for ships. Joseph Share, Baltimore - - - - Oct 28, --
- Balance pendulum lock. See *Locks*.
- Bridges, improvement in. Theodore Burr - - - - Feb. 14, 1806
- Brick, machine for making. John F. Gould - - - - March 1, -
- Boats. See *Propelling*.
- Boxes for carriage wheels. James Gridley, Boston - - - - May 26, --
- Boxes for carriage wheels, Levi Brown, Berkshire, Mass. - - - - May 30, --
- Boring, machine for. Roger Selden - - - - July 17, --
- Boots and shoes, improvement in. John Bedford, Philadelphia - - - - July 16, --
- Brads, machine for cutting. Jonathan Ellis - - - - Feb. 10, 1807
- Bottoms for boots and shoes, of metal. Sam. Milliken, Lexington, Mass. - - - - Feb. 10, --
- Boots and shoes, improvement in making. W. Montgomery, Philadelphia - - - - Feb. 11, --
- Butter, mode of making. B. G. and G. Burtis, New York - - - - Feb. 27, --
- Bark, mode of applying for hats, &c. Sylvester G. Whipple, Lowell, Mass. - - - - April 17, --
- Bridges, mode of construction. Thomas Pope, New York - - - - April 18, --
- Bark, machine for grinding. Corns. Toby, Hudson, N. Y. - - - - May 7, --
- Box, for carriages. See *Axle*.
- Boots and shoes, mode of making. Eli Barnum, Mass. - - - - Jan. 9, 1808
- Boats, mode of propelling. Philemon Heaton, Mark B. Boys, and Philemon Heaton.
- Boats, etc. See *Impelling*.
- Boring. See *Pressing*.
- Brick, mode of making. Asa Frost, Cazenovia, N. Y. - - - - Sept. 21, --
- Balls and shot made by pressure. Thos. Bruff, Washington city Oct. 5, --
- Boots and shoes. Sam. Chamberlain, Boston - - - - Nov. 21, --
- Boiler, for distilling double. Amos Gunn, New Haven, Conn. - - - - Dec. 19, --
- Bellows. Henry Dotterer, Philadelphia - - - - Feb. 16, 1809
- Bene oil. William Few, New York - - - - March 1, --
- Bow string, for hatters. Daniel Nicholls, New Milford, Conn. - - - - March 1, --
- Boxes, mode of boring for axle trees. A. Brood, Salisbury, Connecticut - - - - June 14, --
- Boiler. See *Worm*. James Trueman - - - - June 24, --
- Boiler and heater. Samuel Bolton, Philadelphia - - - - July 7, --
- Barbal Alkahest, or Magic Lotion. John Hopkins, Phil. - - - - Aug. 24, --
- Boxes, mould for running. Samuel Smith, Amherst, Mass. - - - - Oct. 17, --
- Brick and tiles, machine for making. John F. Gould, Newburyport, Mass. - - - - Oct. 17, 1709
- Barilla, mode of manufacturing. George Easterly, Richmond, Va. Feb. 5, 1810



Bridges, construction of.	Joseph Joshua Dyster, Phil.	Feb. 23,	1810
Boxes for carriages.	Leonard Farwell, Lancaster, Mass.	March 5,	--
Bridges, construction of.	John Templeman, Georgetown, D. C.	March 6,	--
Boring machine.	Benjamin Hall, Canaan, New York	March 8,	--
Borer, mitre point.	Benjamin Hall, Canaan, New York	March 8,	--
Bee hives.	John Sweet, Bethlehem, Mass.	April 11,	--
Boxes for wheel carriages.	John Nicholson, Herkimer, N. Y.	April 28,	--
Boring machine.	John Webster, Barrington, Mass.	May 1,	--
Bellows, elastic piston.	Henry Dotterer, Philadelphia	May 1,	--
Bilious pills, Lee's Windham.	Samuel Lee, New London, Conn.	May 24,	--
Balance scale.	Russell H. Wright, Boston	June 9,	--
Breaking horses and cattle.	David Cooly, Orange co. N. Y.	June 23,	--
Boat and ship building.	Wm. Phoebus, New York	June 27,	--
Bolts, rolling iron round for ships.	Clement Rentgen, West Chester, Pennsylvania	June 27,	--
Boat, flat-bottomed with moveable keel.	S. Buel, Burlington, Vermont	June 7,	--
Brick, mode of making	Joseph B. Harris, Philadelphia	Aug. 21,	--
Brick and tiles, making.	Daniel French, New York	Aug. 22,	--
Boiler, improvement in the.	Wm. Eaton, Baltimore	Oct. 29,	--
Boiler and steam still.	Borden Wilbor and Timothy Soper, Washington, N. Y.	Feb. 4,	1811
Bark mill, Luther Gale,	Berkshire co. Mass.	March 20,	--
Boots, mode of forming cossacks.	John Morgan, Philadelphia,	April 10,	--
Brick, mode of manufacturing.	James Gregg, New Hampshire	May 7,	--
Bolts, machine for cutting off the ends of.	John Rewey, Berkshire, N. Y.	July 8,	--
Balancé bridge.	Jonathan Jessup, York Town, Penn.	July 2,	--
Bellows, forge.	Charles M. Murtry, New Marlborough, Mass.	July 8,	--
Boot and shoe making.	S. Hitchcomb and J. Bement, Homer, New York	June 30,	--
Boilers, circular.	John Sizer, New London, Conn.	Oct. 15,	--
Boot lays, manufactory of.	John Vernon, Baltimore		
Boxes.	See <i>Metallic</i> . Lebbeus Larreebee.		
Boats, &c. constructing.	Francis Rotch, New Bedford, Mass.	Nov. 29,	--
Bee-hives, constructing.	Timothy Stanley, Farmington, Conn.	Jan. 6,	--
Bedstead, improved easy draught.	Peter Tilton Walcot, Monmouth, New Jersey	Jan. 6,	1812
Boot-legs, machine for cramping.	N. L. Moore, Smithfield, Massachusetts	Feb. 4,	--
Bridge, rolling draw.	Richard Crosbie, Newark, N. J.	Feb. 17,	--
Boots and shoes, machine for making.	Elijah Thayer, Leicester, Massachusetts	March 14,	--
Brick machine.	James M'Donald, New York	April 1,	--
Boring machine.	Nath. Gillett and John Smith, Cazenovia, N. Y.	April 8,	--
Bridges, construction of.	Benjamin Conner, Portsmouth, N. H.	April 23,	--
Blankets, wool made into.	Elkanah Cobb, Georgetown, D. C.	April 29,	--
Boring machine.	David Sperry, Colchester, New London, Connecticut	May 12,	--
Buttons, moulds for casting.	G. W. Robinson, New Haven, Connecticut	May 14,	--
Boots and shoes, with pegs, &c.	R. W. Richards, Norwalk, Conn.	May 23,	--
Bark, mode of grinding, &c.	Jos. Richardson and Ben. Stout,	June 6,	--
Boiler, stone, for sulphur.	Ab. H. Quincy, Boston, Mass.	June 13,	--
Boats, chain wheels and paddles for.	Robert R. Livingston, Clermont, New York	June 13,	--
Boots and shoes, elastic hair.	Wm. Francis, Boston	June 23,	--
Boot, mathematical.	Wm. J. Crease and J. Morgan, Phil.	July 20,	--
Book-binding.	John T. Sullivan, Philadelphia	July 27,	--
Boats and vessels, constructing.	Francis Rotch, Philadelphia,	Aug. 3,	--
Bodies of carriages.	Henry Dunlap, Georgetown, D. C.	Aug. 27,	--

Boots, &c. iron bound.	Ephraim Twomley, Norway, Mass.	Aug. 28,	1812
Book-binding,	Robert De Silver, Philadelphia	Sept. 14,	--
Box boiler.	John Morris, N. Haven, Conn.	Oct. 3,	--
Bedsteads.	John Redman Cox, Philadelphia	Oct. 16,	--
Bridles.	Robert Smether, Orange Co. Va.	Dec. 10,	--
Boring rocks.	John Sanford, Sharon, Conn.	Dec. 10,	--
Bread, machine for making.	Jehosaphat Starr, Middleton, Connecticut	Jan. 8,	1813
Bread, machine for making.	George Richards, Manlius, N. Y.	Feb. 8,	--
Boiling. See <i>Distilling</i> .	John Morris, New Haven, Conn.		
Bullets and shot by pressure.	Thomas Bruff, Washington city	June 4,	--
Bathing machine.	Henry Chevens, New York	July 13,	--
Bleaching cotton by steam.	Alexander Milner and Dan. S. Deane, Clinton, N. Y.	July 14,	--
Bark-mill.	Caleb Churchman and George Martlin, jr. Upper Chester, Penn.	July 16,	--
Bathing vessel.	Dan. Harrington, Centreville, Penn.	Oct. 4,	--
Boiler, cylindrical.	Philo M. Hackley, Hudson, N. Y.	Oct. 9,	--
Boiler and steam still.	Timothy Soper, jr. and Charles Reynolds, Hartford, Conn.	Dec. 2,	--
Boat, the rapid.	Fred. W. Guissenhainer, New York	Jan. 14,	1814
Bath, warm and cold.	Sam. K. Jennings, Lynchburg, Va.	Jan. 21,	--
Bathing machine.	Wm. Merrit, New York	Feb. 1,	--
Boats, propelling.	Moses Rogers, New York	Feb. 9,	--
Boring guns and pistols.	Daniel Pettibone, Philadelphia	Feb. 12,	--
Butter, making bad good.	Zina Phinney, Green co. N. Y.	March 4,	--
Black lead pencils.	Christopher Osgood, Salem, Mass.	March 26,	--
Bark mills.	Jared Olds Mariden, New Haven, Conn.	April 18,	--
Brick and tile, pressing.	Ben. Porter, Salem, Mass.	May 18,	--
Balancing wheels, mode of.	John Andrews, Litchfield, N. Y.	May 27,	--
Boring machine.	Richard Deering	May 28,	--
Buff, or polishing wheel.	Aaron Broad, Litchfield, Conn.	June 6,	--
Bayonet socket.	Andrew Wilson, New York	June 11,	--
Boilers.	Gabriel N. Philips, Goshen, N. Y.	June 28,	--
Brandy, imitating.	Henry Moore, Aurora, N. Y.	July 2,	--
Block, head.	Joseph Briggs, Schoharie, N. Y.	July 9,	--
Bucket for sap.	Jeremiah Purdy, Cherburn, Chenango, N. Y.	Oct. 3,	--
Boiling.	Caleb Shepard, Cincinnatus, N. Y.	Oct. 4,	--
Boiler.	Lemuel M. Richards, Cazenovia, N. Y.	March 30,	1815
Button moulds.	John B. Collins, Meriden, Conn.	April 12,	--
Do. of wood.	Anson Matthews, Southington, Conn.	April 26,	--
Bank notes, printing on the back.	John Kneas, Philadelphia	April 28,	--
Bark mills.	Luther Gale, Lenox, Mass.	May 16,	--
Box boot, open back spring.	Wm. Atchison, New York	May 23,	--
Boat, propelling.	Gabriel Manny, Montgomery, N. Y.	June 8,	--
Boat, rocking or lever.	Bennet Lees, New York	June 20,	--
Brads, for cutting.	Seth Boyden, Boston, Mass.	June 27,	--
Buttons, rounding the edges, &c.	Ira Ives, Bristol, Conn.	Aug. 7,	--
Do. construction of the eye.	Do. do. do.	Aug. 7,	--
Do. setting the eyes of.	Do. do. do.	Aug. 7,	--
Bowing wool for hatters.	Edward C. Griffing, Lyme, Conn.	Aug. 10,	--
Buttons, wire necked.	Heman Mathews, Southington, Conn.	Sept. 12,	--
Blankets, improvement on machine for making.	J. Getzendanner, Frederick co Md.	Sept. 30,	--
Bark, machine for grinding.	David Pelton, Lyme, New Haven,	Sept. 30,	--
Bark, machine for shaving.	Wm. and John Goodwin, jun. Lebanon county	Oct. 16,	--
Boilers, for making salt.	Isaac W. Averille, Salino, N. Y.	Nov. 5,	--
Boilers, for steam.	Royal Yeamans, Baltimore	Jan. 9,	--
Do. do. finishing.	Royal Yeamans, Baltimore,	Sept. 12,	--
Boiler and furnace united.	Philo M. Hackley, New York	Jan. 22,	--

Buttons, wire-necked, finishing.	H. Mathews, Southington, Connecticut	Sept. 12,	1815
Biscuit making.	Wm. Little, New Orleans	Sept. 21,	--
Beef cutter.	Ben. Meeker, Brooklyn, N. Y.	Oct. 21,	--
Boots and shoes, cutting.	Joshua Hall, Fredericktown, Md.	Dec. 15,	--
Boats, to be worked by quadrupeds.	David Porter, Washington,	Feb. 8,	1816
Bridges, frame.	George Tabb, Martinsburg, Va.	Feb. 23,	--
Boots and shoes, furred.	Samuel Eells, Conn.	Feb. 24,	--
Buttons, composition for wire-eyed.	S. H. Woodruff and A Mathews, Connecticut	March 1,	--
Buttons, turning.	Daniel French, Bridgeport, Penn.	April 23,	1816
Bolt, spring.	Shad Trumbull, Suffield, Conn.	April 23,	--
Boxes and axle trees, for carts, etc.	Wm. Bachelor, N. Y.	May 2,	--
Breweries, machine for washing.	Leonard Beatty	May 17,	--
Blocks, casting the sheaves of.	Henry Worall, New York	June 12,	--
Button moulds, polishing wooden.	J. Norton, Southington, Connecticut	June 13,	--
Brick, making.	Wm. Michael, Henrico, Va.	June 24,	--
Bank notes, to prevent forgery of.	A. Brewster, Hartford, Conn.	July 15,	--
Boats, propelling by horses, &c.	Rodman Bowne, New York	July 18,	--
Beating, bruising, machine for.	See Cutting. Adam Britz, Philadelphia	July 18,	--
Bricks, air conducting.	Ephraim Treadwell, Essex co. Mass.	Sept. 12,	--
Building boats, &c. with plank.	W. Annesley, Albany, N. Y.	Sept. 12,	--
Boots and shoes, elastic.	Pierre Azam, Baltimore	Sept. 26,	--
Bells, moulding and casting.	Ben. Hanks, Albany, N. Y.	Nov. 4,	--
Boiler.	Humphrey Ricketson, New-York	Dec. 13,	--
Bellows, wooden.	Ben. and John Tyler, Claremont, N. H.	Feb. 1,	1817
Boiler for steam engines.	Samuel Morey, Orford, N. H.	March 13,	--
Brick-making, &c. machine for.	William Mitchell, Richmond, Va.	March 26,	--
Building bridges.	Theodore Burr, Burr Haven, Dauphin co. Penn.	April 3,	--
Boot cleaning machine.	Israel Pinkney, New-York	April 16,	--
Bench, work.	Baruch Way, Ontario co. N. Y.	June 7,	--
Balance, improvement on Dearborn's.	S. A. Rogers, Geneva, N. Y.	July 31,	--
Bellows, japanned.	R. B. Richardson, Phil.	Aug. 22,	--
Bleaching cotton and linen.	John Kendall, Leominster, Mass.	Aug. 22,	--
Box for carriages.	Wm. Edwards, Baltimore	Sept. 11,	--
Bit for boring gun barrels.	James Greer, Harpersferry, Va.	Oct. 3,	--
Ball stocks for printers.	John Babcock, New Haven, Conn.	March 18,	1818
Bellows, Smiths'.	Alanson Holmes	March 23,	--
Bricks, mode of making.	Wm. Mitchell, Spring Hill, near Richmond	May 28,	--
Butter, making.	Isaac Shepperd, Meredith, Stafford co. N. H.	May 28,	--
Boots and shoes, nailing the sole to the upper leather.	John Bedford, Phil.	June 2,	--
Eent wood handle and socket.	Simeon Stedman, Hartford, Con.	July 25,	--
Book-binding, improvement in.	John Meer, Phil.	Aug. 26,	--
Blocks, sheaves for.	Nathan. H. Lewis, N. Y.	Aug. 26,	--
Bleaching linen, &c. improvement in.	J. G. Kentzel, Hatfield, Penn.	Oct. 8,	--
Breaking flax, machine for.	David Melville, Providence, R. I.	Nov. 18,	--
Boiler, treble steam.	Sam. Morey, Orford, New Hampshire	Dec. 19,	--
Boiler, improvement on.	John L. Sullivan, Boston	Dec. 29,	--
Bridges, building.	Naphtali Bishop, Barre, Vermont	Jan. 11,	1819
Blocks used in stereotype plates.	Matthew Smith, New-York	Jan. 20,	--
Brooms, machine for making.	S. H. Weed, Poughkeepsie, New York	Feb. 3,	--

Building houses against fire. Joseph Hadley, Morrystown, Orleans county, Va.	Feb. 3,	1819
Bush. See <i>Antifriction</i> . James Rudder	Feb. 6,	--
Boiler, stove. Thomas E. Barker, Green county, N. Y.	Feb. 19,	--
Boiler for distilleries, &c. T. Pierce, Hartwick, Otsego co. N. Y.	Feb. 27,	--
Blasting rocks. Benoni Kinyon, Hillsdale, Columbia co. N. Y.	March 15,	--
Balance, improvement on his. Benjamin Dearborn, Boston	March 24,	--
Boats, propelling. James Lyon, Statesburgh, S. C.	April 3,	--
Brick making machine. Adam Stewart, Baltimore	April 8,	--
Brewing, improvement in. Arthur Redmond, Nashville, Tennessee	May 20,	--
Balls and shot, mode of casting. Daniel Pettibone, Phil.	Nov. 10,	--
Boring holes in posts, machine for. James Corbett, West Hanover, Pennsylvania	Dec. 21,	1819
Brushes made of broom corn. B. Byberry, Philadelphia, Penn.	Dec. 21,	--
Bridges, improvement in John Bragg, Montreal, Canada	Jan 4,	1820
Bread, improvement in making Ephraim Treadwell, Phil	Jan 10,	--
Boats, improvement in the mode of geering for propelling. Daniel French and Fling Bliss, Cincinnati, Ohio	Jan 22,	--
Bridges, improvement in Ithiel Town, Fayetteville, N C	Jan 28,	--
Boiling salt, improvement in Osborn Parsons, Pittsburg, Penn	April 4,	--
Bridges, improvement in wooden aqueduct M Lewis, Cheshango, New York	April 11,	--
Brewing by steam. Harvey Hackley, New York	April 21,	--
Boiler, water and steam still Stephen Stillwell, Bainbridge, New York	June 14,	--
Boats, mode of passing up rapids, &c Lemuel Thwing, Dedham, Massachusetts	Aug 12,	--
Boot and shoemaker's workstand William A and N Kelly, Littleton, Massachusetts	Oct 13,	--
Bark, &c machine for breaking Nathan Sear, Hudson, N Y	Oct 13,	--
Bee-hive, improvement in the Edward Blake, Hartford, Me	Nov 16,	--
Book-binding, improvement in bands for D K Van Vechton, New York	Dec 12,	--
Boats made of metal Thomas J Bond, Baltimore	Dec 21,	--
Boots and shoes, cutting by rule Simeon Hart, Monckton, Vt	Mar 3,	1821
Bridle for stopping horses Peter Sathrop, Louisa county, Va	Mar 20,	--
Ball speeder for roping cotton Silas Shepard and Cromwell Dean, Taunton, Massachusetts	Mar 23,	--
Boat, improvement in the N C Dawson and Anthony Bucker, Pedler's Mills, Amherst county, Virginia	April 3,	--
Bricks, machine for making Seth Belknap, Newburgh, N Y	May 17,	--
Boiler, improvement in water and steam still S Stillwell, Bainbridge, New York	June 6,	--
Braiding machine John Thorp, Providence, Rhode Island	Aug 10,	--
Boots and shoes, improvement in the manufacture of D Peck, New York	Aug 14,	--
Boiler, stove bottom. Benjamin Simonds, jr Bedford, Mass	Oct 15,	--
Bedsteads, improvement in. Daniel Powles, Baltimore	Oct 31,	--
Band-boxes, machine for cutting the tops and bottoms of Benjamin Mestayer, New York	Nov 13,	--
Bark mill, improvement in the E & J Trash, Sangerfield, N Y	Nov 22,	--
Boilers for steam engines. Thomas Skidman, New York	Nov 30,	--
Bedsteads, improvement in. Peregrine Williamson, Baltimore	Dec 6,	--
Boilers, improvement in steam Stephen Baker, New York	Dec 13,	--
Bonnets, improvement in grass Gurdon & Sophia Wells, Weathersfield, Connecticut	Dec 29,	--
Boots and shoes, improvement in water proof Aaron Dana, Boston	Dec 31,	--
Buds, Blossoms, &c. (mode of delaying,) Robert Moore, Rowan co. N. C.	March 19,	1822



Bending timber for sleighs, &c.	E. Green and M. Blacklee,		
Litchfield, Conn.	-	-	March 20, 1822
Bank notes, making.	George Murray, Phil.	-	March 23, --
Blubber, machine for cutting up whales.	William Ball, New-		
York	-	-	April 25, --
Bricks, machine for making.	Benjamin Rolfe, During, New		
Hampshire	-	-	April 30, --
Bricks and tile, machine for making.	James C. Stubbs, and		
James Bonner, Cincinnati, Ohio	-	-	May 10, --
Blocks and wedges, improvement in making.	John Thomas,		
Washington, D. C.	-	-	May 17, --
Bark mill, improvement in the.	James Elliott, Phil.	-	May 24, --
Bank notes, mode of making.	Jame Ph. Puglia, Phil.	-	Aug. 13, --
Bridle for stopping horses.	Peter Laporte, Richmond, Va.	-	Aug. 15, --
Bleaching unrotted flax.	Wm. Cumberland, New York	-	Aug. 27, --
Beadsteads, improvement in.	Peregrine Williamson, Balti-		
more	-	-	Oct. 17, --
Bricks, improvement in the machine for moulding.	H. Maine,		
Point Coupee, Lou.	-	-	Nov. 23, --
Boots and shoes, improvement in making.	A. Buffum, Smith-		
field, R. I.	-	-	Dec. 28, --
Bricks, mode of pressing.	S. Briggs, Salem, Massachusetts	-	Jan. 11, 1823.
Boats, improvement in the towing, &c.	Edward S. Townsend,		
Palmyra, Ontario country, New York	-	-	Mar. 13, --
Boats, machinery for propelling.	Junia Chittenden and Amos		
W. Delano, New York	-	-	May 1, --
Boats, mode of propelling.	Flavius Waterman, 3d, Washington,		
D. C.	-	-	May 9, --
Bee-hive, improvement in the.	Simon C. Williams, Virginia	-	May 14, --
Bricks, improvement in the making for pressing.	Briggs R.		
Reed, Mass.	-	-	May 29, --
Bricks, machine for pressing; called a treadle-ma. Do., do.	-	-	May 29, --
Bed-bugs, mode of destroying.	Richard Sealy, New York	-	June 20, --
Bricks, improvement in making fire proof.	Timothy Caldwell,		
Philadelphia	-	-	June 21, --
Blasting rocks, improvement in loading the boring for.	Ephraim		
Gilbert, Rochester, New York	-	-	June 22, --
Bricks, machine for making.	J. Menefee, Landy Parish, La.	-	Aug. 7, --
Bank-bills, making paper for.	Richard Wilcox, New York	-	Sept. 19, --
Boiler, improvement in the.	A. Glendening, Butler co., Penn.	-	Sept. 25, --
Boiler, steam-generator, or.	H. Betts and J. A. M'Lean, Nor-		
walk, Ct.	-	-	Dec. 24, --
Boots and shoes, improvement in making.	Eben. Martin, Sa-		
lem, N. J.	-	-	Jan. 12, 1824.
Booms, logs for constructing.	Henry Babb, West Brook, Maine	-	Jan. 13, --
Bellows, preserving the nozzle of.	James Dodge, jr., St. Albans,		
Vermont	-	-	Jan. 20, --
Brewing, improvement in.	R. L. Lloyd and Adam Parten-		
heimer, Philadelphia	-	-	Jan. 27, --
Bricks, burning.	Robert Crutchfield, Botetorte co., Virginia	-	Feb. 7, --
Bricks, machine for making.	Seth Lewis, Louisiana	-	Feb. 11, --
Bedstead, improvement in the windlass.	Leonard Foster,		
Boston	-	-	Feb. 16, --
Brush-blocks, improvement in making.	Stacy Costill, Philadel-		
phia	-	-	Feb. 25, --
Bricks, machine for moulding and making.	James Lee, Ogden,		
New-York	-	-	Mar. 11, --
Bee-hive, improvement in the.	Wm. J. Stillwell, Root, N. Y.	-	Mar. 18, --
Bookbinders' cutting presses.	John J. Wells, Hartford, Conn.	-	Mar. 28, --
Boiler for the steam engine.	Ralph Bulkley, New York	-	Mar. 25, --

Boiler, impt. in the steam engine.	Ralph Bulkley, N. Y.	April 8, 1824
Blinds, padcaps, &c., making.	Seth Boyden, Newark, N. J.	April 10, --
Bedstead, improvement in the windlass.	Leonard Foster, Boston	June 25, --
Bank notes, to prevent forgeries of.	Nathaniel Sylvester, N.Y.	July 12, --
Balances, construction of.	David Rogers, Auburn, New York	July 13, --
Bedsteads, impt. in windlass.	O. R. Herbert, Mount Pleasant, New Jersey	July 14, --
Borders for door plates.	Joseph L. Lewis, New York	Oct. 8, --
Bedsteads, put together by right and left screws.	Thomas B. Smith, Troy, New-York	Oct. 11, --
Barrels, machine for shaving and listing.	Daniel North, of Middlebury and Horace Naramor, Caledonia, New York	Nov. 26, --
Bobbin-tube, improvement in the.	Job Manchester, Warwick, Rhode Island	Dec. 13, --
Bricks made by pressure.	D. Flagg, jr., Gardiner, Maine	Dec. 13, --
Balance beams, casting with notches.	A. Dana, Troy, N. Y.	Dec. 28, --
Boxes, casting for carriages.	Calvin Darby, Worcester, Mass	Jan. 22, 1825.
Bath, medicated vapour.	Charles Whitlaw, New York	Feb. 16, --
Beams and balances, scale.	Solomon A. Rogers, Philadelphia	Feb. 19, --
Bedsteads, improvement in.	Isaac Cooper, Baltimore	Feb. 22, --
Bedstead, windlass.	Charles Adams, Boston	Feb. 26, --
Bells, triangular cast steel.	William Hoyt, Brookville, Franklin county, Indiana	March 3, --
Bed and bedstead for the sick.	Jeremiah Baily, Philadelphia	March 18, --
Boring for water, machine for.	Levi Disbrow, New Brunswick, New Jersey	March 24, --
Boots, machine for lasting.	John Eells, jr., Unandilla, N. Y.	March 25, --
Bark, obtaining the tanning principle from.	J. Giles, Guilford Vermont	April 11, --
Bark and dye-woods, ma. for cutting.	Henry Hart, jr., and H. White, Stanford, Fairfield county, Connecticut	April 11, --
Buildings, construction of, for school-rooms, etc.	Stephen W. Taylor, Lowville, Lewis county, New York, and John W. Martin, Martinsburgh, New York.	April 16, --
Bellows for furnaces, etc.	Henry Dotterer, Philadelphia	April 14, --
Boring and mortising machine.	Job Wilkinson, Pennfield, N. Y.	May 28, --
Bulk-head; being a water tight.	Ruggles Whiting, Louisville, Kentucky,	June 6, --
Brick moulding and making, impt. on Lee's machine.	James Lee and Jarvis Ring, Ogden, New York	June 11, --
Brick moulding and making, improvement on James Lee's machine.	Timothy P. Kneeland, Ogden, New-York	June 21, --
Bricks, impt. in the method of pressing.	J. Moore, Gardiner, Maine	Aug. 24, --
Bellows for forges, &c. impt. in.	Josiah J. Eddy, Providence, Rhode Island,	Sept. 9, --
Bonnet presser, impt. in the.	Simon Pattee, Foxborough, Mass.	Sept. 14, --
Brick press, improvement in the.	Mark Twitchell, Gray, Me.	Sept. 24, --
Boiler and kettle, impt. in the.	Philo N. Griffith, Orange, N. Y.	Sept. 26, --
Bake oven, improvement in the.	Henry Reip, Baltimore, Md.	Sept. 27, --
Boats, improvement in machine for propelling.	Henry Tiller, Schenectady, New York	Sept. 28, --
Brick presser, improvement in the.	Sam. Lane, Hallowell, Me.	Sept. 30, --
Bricks, improvement in the mode of compressing.	T. Norcross and George Pollard, Hallowell, Maine	Oct. 1, --
Brick kiln, improvement in the.	John Duff, Washington, D. C.	Oct. 31, --
Bedstead, impt. indouble draw key.	J. M'Clintic, Chambersburg, Pennsylvania	Nov. 2, --
Bedstead, keyed double draw.	Samuel Cooper, Chambersburg, Pennsylvania	Nov. 2; --

Boats, machine for raising.	Elisha Turner, Rochester, N. Y.	Nov. 18,	1825
Boiler, improvement in the steam.	Stephen T. Conn, N. Y.	Nov. 29,	--
Brand, for flour barrels, &c.	Wm. Ross, New Orleans	Dec. 2,	--
Boots and shoes, making water tight.	Patrick G. Nagle, Philadelphia	Dec. 14,	--
Boxes and hubs of wheels.	Jeremiah Wilt, Chambersburg, Pennsylvania,	Dec. 28,	--
Bricks, pressing etc. unburnt.	Thomas Norcross, Hallowell, Maine	Dec. 31,	--
Bedstead, grooved, dove-tailed.	John Mitchell, Harrisburg, Pennsylvania	Jan. 11,	1826.
Bushing sheaves, with soft metal.	Theodore and Daniel Curtis, Washington, District of Columbia	Jan. 23,	--
Bricks, machine for pressing.	John M. Brooking, Wiscasset, Maine	Jan. 23,	--
Bookbinders' tools, ornamenting.	David H. Mason, Phila.	Jan. 26,	--
Brooms and brushes.	Adam Schlater, Oxford, Penn.	Feb. 15,	--
Bisected bedstead.	Peter Breasted, Green county, N. Y.	Feb. 21,	--
Brick press, spiral moulding.	James Parker, Gardiner, Maine	Mar. 28,	--
Boats, wagons, etc. propelling.	Chancey Crafts, Woodbury, Conn.	Mar. 29,	--
Bedsteads' fastenings.	Edwin H. Badger, Petersburg, Va.	April 3,	--
Boots and shoes, nailing.	John Trask, Hadfield, Mass.	April 5,	--
Bricks, machine for pressing.	Julius Willerd, Baltimore, Md.	May 2,	--
Bricks, machine for moulding.	Divid Watson, Fayetteville, Me.	May 6,	--
Brick kilns, covering or platting.	S. R. Bakewell, Wellsburg, Va.	May 10,	--
Biscuit and sugar bread making.	Ephraim Treadwell, N. Y.	May 18,	--
Boots and shoes, machine for making.	Elijah Thayer, Leicesters, Mass.	June 9,	--
Brick, machine for moulding tile, &c.	Ezra Fisk, Fayette, Maine	June 9,	--
Boats, machine for drawing up to repair.	Seth C. Jones, Rochester, N. Y.	June 16,	--
Boats for canals, machine for weighing.	Benjamin Bull, N. Y.	June 20,	--
Braiding machine, improvement on his.	John Thorp, Providence, R. I.	July 10,	--
Bands, iron keyed, improvement in.	Edward Cooper, Richmond, Va.	Sept. 14,	--
Bells, improvement in.	Henry Tyler, Utica, N. Y.	Oct. 20,	--
Bridles, improvement in the manufacture of.	Daniel H. Read, New-York	Oct. 24,	--
Bark mill, improvement in the.	Cotton Foss, Madison, Ohio	Oct. 25,	--
Bilge levers, to support ships.	John Thomas, New-York	Nov. 6,	--
Bedsteads, improvement in fastening together posts of.	Wm. Bell, Lexington, Ky.	Nov. 7,	--
Boats and vessels, machine for raising.	Alfred Warner, Rochester, N. Y.	Nov. 16,	--
Brick press, self-feeding.	John Winslow, Portland, Maine	Dec. 8,	--
Bedsteads, improvement in.	Samuel Davis, Catskill, N. Y.	Dec. 29,	--
Bedstead joints, and sacking bottom.	Daniel Powles, Baltimore	Jan. 26,	1827
Boilers, anthracite coal to be used with.	John Barker, Baltimore	Feb. 7,	--
Brick, machinery for pressing.	Alfred B. Crossman, Huntington, New-York	Feb. 9,	--
Brick, machine for grinding clay for.	Benjamin H. Hill, Richmond county, Georgia	Feb. 17,	--
Bogging machine.	Squire Collins, Hillsdale, New-York	Feb. 22,	--
Bee-hive, improvement in the.	Cuthbert Wiggins, Fayette co. Pennsylvania	Feb. 27,	--

Blacksmiths, blowing and striking for. L. Hoyt, and Ebenezer Pierce, Putteney, New York	- - -	March 3, 1827
Blacksmiths, spring hammer for. James Rainey, Orange co. North Carolina	- - -	March 7, -
Brick making machine. David Rising, Atchester, Vermont, [See B.]	- - -	March 21, --

## C

Cabouse, construction of a. John Youle, New York,	-	Aug. 25, 1795
Candles, manufacturing of. Joseph T. Sampson, Boston,	-	Aug. 6, 1790
Do do. Richard Robotham, New York	-	June 2, 1794
Carriages to be propelled by mechanic powers, construction of. John J. Staples, New York	- -	April 25, --
Cloths, raising a nap on. Sam. Mullikin, Philadelphia	-	March 11, 1791
Cloths, method of raising and shearing the nap of, by a wheel of knives. Sam. G. Corr, Albany, N. Y.	- -	Oct. 20, 1792
Cloths, woollen and other shearing. Sam. Kellogg, Vermont	-	Jan. 31, 1795
Color, yellow, forming a. Thomas Bidwell, Pennsylvania	-	April 20, 1796
Conductor, for conveying persons and goods from houses on fire. Samuel Green, New York	- -	March 28, 1792
Cordage, manufacturing. Geo. Parkinson, Pennsylvania,	-	June 16, 1795
Cordage, manufacturing of. John Pittman, Rhode Island	-	May 25, --
Cotton, Spinning. Wm. Pollard, Philadelphia	- -	Dec. 30, 1791
Cotton, ginning. Eli Whitney, New Haven, Conn.	-	March 4, 1794
Cotton, gin. Hodgen Holmes, Georgia	- -	May 12, 1796
Candles, improvement in making. Joseph S. Sampson	-	June 26, 1797
Candles, machine for dipping. Samuel Blydenburg,	- -	March 22, 1798
Cards, manufacturing. Amos Whitmore	-	June 5, 1797
Carriages, improvement in propelling. William Farris	-	April 29, --
CASTING. See <i>Iron</i> .		
Chimnies, improvement in. Richardson Stuart	- -	Feb. 24, --
Clay for tile, a new method to cut. Andrew W. Duty	-	May 8, 1799
Clock, time keeper, and watches, improvement in. Eli Terry	-	Nov. 17, 1797
Cloth, improvement in a loom for weaving. Amos Whitmore	-	Nov. 17, 1796
Cloths, washing. Nathaniel Briggs	- -	March 28, 1797
Cloth, raising a nap on. Walter Burt	- -	June 23, 1797
Cloth, machine for dressing. Isaac Sanford	- -	March 27, 1799
Cloth, improvement in Washing. Ezra Weld,	- -	June 26, --
Coal stove. See <i>Stove</i> .		
Coffee-grinding, improvement in. Thomas Bruff	- -	Jan. 8, 1798
Colors and paint, improvement in mixing. Lawrence All- wine	- -	Feb. 24, 1797
Combs, a machine for making. Phineas Pratt	- -	April 12, 1799
Concentrating the volatile parts of calcarious earth, stones, &c. improvement in. John Fowler	- -	Nov. 16, 1796
Cooking and boiling, machine for, called a Conjurer. Thomas Passmore	- -	Dec. 23, 1796
Corn, beans, &c. a machine for cutting. Eliakim Spooner	-	Jan. 25, 1799
Corn, beans, &c. a machine for planting. Eliakim Spooner	-	Jan. 25, --
Cotton, improvement in ginning. Robert Watkins	-	Dec. 23, 1796
Cotton, improvement in ginning. John Murray	- -	Dec. 23, --
Cotton seeds, extracting oil from. Charles Whiting	- -	March 2, 1799
Counterfeits, a check to detect. Jacob Perkins	- -	March 19, --
Comb teeth, improvement in cutting and pointing. I. Tryon	-	Feb. 22, 1798
Coach colors, improvement in. Wm. Hottensteen	- -	April 10, 1800
Cloth, to their original state, to be manufactured. John Bid- dis	- -	May 6, --
Cooking, machine for. Frederick Butter	- -	Aug. 22, --
Chimnies, improvement in. David Cooly, jr. and Gabriel N. Philips	- -	Aug. 25, --



Cotton gin. Eben. Whiting, Berkshire, Mass.	-	-	Aug. 22,	1801
Condenser in heating wash, in distilling. A. Anderson, Phil'a	-	-	Jan. 26,	--
Chain and cleaver shot, mode of making and discharging. Is- rael Hatch	-	-	March 24,	--
Cut nails. See <i>Nails</i> .				
Cylinders, wheels within which. See <i>Wheels within Cylinders</i> .			Sept. 15,	--
Currier's shavings. See <i>Paper</i> .				
Churning, machine for. Isaac Baker, Amherst, Mass.	-	-	Feb. 20,	1802
Cotton gin, machine for. William Bell and Samuel de Mont- mollin	-	-	April 7,	--
Churning, machine for. Joel Pierce	-	-	April 10,	--
Clover seeds, machine for cleaning. Asher Spicer, Kent, Mass.	-	-	April 22,	--
Close stoves, improvement in casting. Henry Abbott, Phil.	-	-	May 4,	--
Cutting fur for the use of hatters, machine for. Nicholas Young,	-	-	May 14,	--
Clover seed, machine for cleaning. Martin Miller	-	-	July 19,	--
Corn husks. See <i>Paper</i> .				
Cotton. See <i>Saw Mill for cleaning</i> .				
Cotton gin, improvement to the patented roller. Wm. Bell and John S. de Montmollin	-	-	March 7,	1803
Clover seed, machine for cleaning. John Cottle, Philadelphia	-	-	March 21,	--
Cooler or condenser of vapor, improvement. Wm. How, Bucks co. Penn	-	-	April 3,	1803
Crooked keels, mode of constructing vessels with. Eliphalet Bube, Allegany co. Penn.	-	-	April 27,	--
Channels, machine for deepening. Mat. Barney, Nantucket	-	-	May 14,	--
Cleaning cotton, a rolling machine for. Gordon F. Saltonstall	-	-		
Churn, rocking. Walter Keeler and James Warring	-	-	June 23,	--
Cloths, machine for shearing. See <i>Shearing</i> .				
Cabouses, improvement in the construction of iron ones. Wm. Ashbridge	-	-	June 28,	--
Columbia fire places, improvement in. Robert Heteric, Win- chester, Va	-	-	June 30,	--
Cooling liquors, method of. David Lowndes	-	-	July 31,	--
Clover, machine for separating from pod. T. Kirk, York Bo- rough	-	-	July 28,	--
Cock. See <i>Water Cock</i> .				
Cough drops. See <i>Vegetable Elixer</i> .				
Carriages, mode of constructing. J. C. Stroebel, Reading, Pa.	-	-	Sept. 19,	--
Cotton gin, improvement in. William Bill, Camden, N. C.	-	-	Nov. 24,	--
Cylindric ruler, for ruling paper. John Fairbanks, Boston	-	-	Nov. 30,	--
Cotton gin. Joseph Eve	-	-	Dec. 6,	--
Cards. See <i>Twilling Machines</i>				
Condensers. See <i>Still Heads</i>				
Clover seed, wheat, &c. improvement in separating from the husk. David Buckman	-	-	Dec. 21,	--
Colors, for painting, printing, &c. improvement in making. F. Gay, Baltimore	-	-	Dec. 30,	--
Clover seed, machine for hulling. Jacob Worrell	-	-	Feb. 27,	1804
Cattle. See <i>Watering</i> .				
Clover seed, machine for shelling. Michael Withers, Lancaster,	-	-	April 30	--
Cutting straw and hay, machine for. M. Coats and E. Evans	-	-	April 30,	--
Columbian threshing, break and cleaning fan. Samuel Houston	-	-	May 3,	--
Churn, machine to be fixed to the top of. Levi Stevens	-	-	May 8,	--
Corn See <i>Shelling</i> .				
Chip hats, machine to cut chips for. Amos D. Allen	-	-	May 10,	--
Cotton, machine for cleaning and moating. J. Simmons and J. James	-	-	May 17,	--
Clearing grain from straw, improvement in machines for. William Tunstodt, Richmond, Va.	-	-	June 30,	--
Chip hats, machine for cutting chips for. Amos D. Allen, John	-	-		

- Roberts and Asabel A. Kelsey, Berlin, Penn. - - Sept. 5, 1804
- Carriage See *Wagon*
- Chimnies, method of preventing them from admitting water in rainy weather. John James Thomas - - Oct. 2, --
- Candlesticks, improvement in Ben. Dearborn, Boston, - - Oct. 29, --
- Composition. See *Fire*.
- Cow or sheep bell, impt. in. Simon Newton - - Dec. 23, --
- Close fire place. Horatio G. Spafford, Hudson, N. Y. - - May 3, 1805
- Carriages, iron wheel, for transporting. R. Crane, jun. Woodbury, Connecticut - - May 4, --
- Cross cramp for four wheeled carriages. S. Glover, Fairfield, Connecticut - - May 4, --
- Clover-seed, machine for shelling and hulling. Michael Zorger, York, Penn. - - May 10, --
- Condensing tub, improvement on Anderson's. Henry Witmer, Lancaster, Penn. - - May 17, --
- Cotton, machine for ginning, carding and spinning, J. M'Bride, Nashville, Tenn. - - Aug. 8, --
- Casting types. See *Types*.
- Conduits, Clay pipes for. Samuel Bartlett, Hartford, Conn. Oct. 1, --
- Casting Bolts. See *Bolts*.
- Cattle mills. See *Mills*.
- Copying machine for charts, landscapes, etc. Cephas Thomson, Feb. 5, --
- Chip. See *Loom*.
- Cabouse, improvement in. George Youle, New York - March 21, 1806
- Carding machine, to form bats for wool hats. Abner Guild, Dedham, Mass. - - March 31, --
- Cider and bark mills. J. Quintard, Stanfield, Conn. - - April 5, --
- Cutting straw, machine for. John Heavin, Montgomery co. Maryland - - April 17, --
- Calcareous matters, method of reducing into lime. Charles Varle - - May 2, --
- Cabouse stove, apparatus for cooking, etc. George Youle, New York - - May 21, --
- Cloth. See *Shearing*.
- Churn. Abner Wing, Washington, N. Y. - - May 26, --
- Cables, apparatus for improving. Nathaniel Cutting, Washington co. - - Aug. 14, --
- Composition for covering and flooring houses. Lewis de Ni-roth, Baltimore - - Feb. 3, 1807
- Charcoal, mode of making from peats. C. Fales, Worcester, Mass. - - Feb. 11, --
- Carding fur and wool for hats, machine for. Arnold Buffum, Feb. 21, --
- Cabouse stove, for cooking, improvement in. George Youle, New-York - - April 1, --
- Carriages, mode of disengaging swingle-tree. Henry Dunlap, Georgetown, D. C. - - April 23, --
- Curtains or blinds, mode of hanging. Peter Harvey, Philad'a May 9, --
- Cotton gin. Obadiah Crawford, - - June 22, --
- Churns, improvement in. Reuben Buck, Baltimore - - June 23, --
- Condensers in distillation. T. O'Conner, New York - - July 10, --
- Cleaning windows, apparatus for. T. Bruff, Washington City July 24, --
- Churn, improvement in. Buel Butler, Washington, N. Y. Oct. 3, --
- Copper sheathing nails, mould for casting. Thomas M'Ilwain Princeton, N. J. - - Oct. 6, --
- Cheese Press, improvement in. J. Arnold, Pawlings, Dutchess county, N. Y. - - Oct. 26, --
- Churn, improvement in. John Scripture, Alford, Mass. - - Dec. 15, --
- Gordage, mode of manufacturing, etc. R. Fulton and Nathaniel Cutting, N. Y. - - March 4, 1808
- Combs, machine for making. Phineas Pratt, Say Brook, Conn. - - March 5, --

Churn, improvement in.	Simeon Hays, Poultney, N. Y.	March 8,	1808
Churn, revolving.	Nicholas King, Washington	March 10,	--
Churn, improvement in.	S. Stackhouse, Cassanovia	March 11,	--
Chimnies, improvement in.	G. Gridley, Newburyport, Mass.	March 13,	--
Cider and cheese press, improvement in.	Eden Benedick, New Marlboro', Mass.	March 21,	--
Churns, improvement in.	W. W. Townsend, Sandy Hill, N. Y.	March 22,	--
Cross cut saw.	T. Cohoon, Washington	April 11,	--
Cheese press, improvement in.	E. Warner, Waterbury, Conn.	April 12,	--
Churn, improvement in.	Daniel Pierpont, New Haven, Conn.	April 22,	--
Churn, improvement in.	Aaron Reed, Columbia, N. Y.	April 25,	--
Carriages for field artillery.	D. Cobb, Boston	April 25,	--
Churn, improvement in.	N. Howe, Windham, Conn.	April 25,	--
Churn, improvement in.	S. B. Wiliard, Bloomfield, N. Y.	May 18,	--
Carriage springs.	Enoch Ives and Jerry Hill, New Haven, Connecticut	June 3,	--
Chain bridge.	Fayette co. Penn.	June 17,	--
Cider and cheese press.	E. Benedick, New Marlboro', Mass.	June 18,	--
Conduit pipes, mode of making from clay.	Robert Ramsey, Hanover, New Hampshire	June 24,	--
Churn.	Dyer Cleveland, Sheffield, Mass.	July 7,	--
Currying and finishing leather.	S. Parker, Bellerica, Mass.	July 9,	--
Churn.	Dyer Cleveland, Sheffield, Mass.	July 11,	--
Churn.	E. Townsend, Canaan, N. Y.	July 12,	--
Churn.	John Bolton, Philadelphia	Aug. 2,	--
Chain bridges, improvement in.	J. Templeman, Alleghany, Md.	Aug. 15,	--
Churn, rocking.	Daniel Parmele, Dutchess co. N. Y.	Sept. 8,	--
Churn.	Samuel Moon, jun. Downingtown, Penn.	Oct. 24,	--
Churn and washing machine.	John Devotie, Vernon, Oneida co. New-York	Dec. 5,	--
Churn.	Luther Jones, Canton, Conn.	Dec. 10,	--
Cheese press.	Levi Martin, Granville, N. Y.	Dec. 19,	--
Casting.	See <i>Pipes</i> .		
Carriages, mode of suspending.	J. Henderson, Gifford, Conn.	Dec. 26,	--
Cheese press.	H. Dichermans, Berkshire co. Mass.	Dec. 27,	--
Cheese Press.	Hazin Erwin, Boston	Dec. 28,	--
Clover-seed, machine for cleaning.	Wm. Sampson and C. Curtis, New Haven, Conn.	Jan. 6,	1809
Candles, machine for manufacturing.	Wm. Miller, N. Y.	Jan. 6,	--
Candles, machine for dipping.	Sam. Stansbury, N. Y.	Jan. 6,	--
Combs.	Moses Moss, Farmington, Conn.	Jan. 10,	--
Composition for the bottoms of vessels.	Jonathan Pratt, Middletown, Conn.	Jan. 14,	--
Carriages.	Wm. Ross, New York	Jan. 14,	--
Clay conduit.	Sam. Bartlet, Hartford, Conn.	Jan. 15,	--
Churn.	Ira Millington, Warren, N. Y.	March 2,	--
Clover-seed, machine for getting out.	S. Condon, New Hartford, Conn.	March 3,	--
Cement for covering houses.	C. Mornewick, Baltimore	March 13,	--
Case or kirb for sinking wells.	Job Cowperthwaite, sen.	April 13,	--
Churn.	Ezra G. Jones, Otsego, N. Y.	April 21,	--
Currying and finishing leather.	Sam. Parker	April 26,	--
Churns.	Hezekiah Dickerman and G. Barrington, Mass.	May 9,	--
Combs.	Nath. Jones, Southington, Hartford co. Conn.	May 9,	--
Churns.	George Votee, Berlin, Conn.	May 10,	--
Cheese press.	Phineas Allen, Burlington, N. Y.	May 13,	--
Churning.	See <i>Washing</i> .		
Churn.	J. M'Cord, Washington, N. Y.	June 13,	--
Cables and ropes, machine to lay and spin.	W. Schultz, Balt.	June 24,	--
Churn.	L. Thomson, Sturbridge, Mass.	June 24,	--
Clock.	Ira Ives, Bristol, Conn.	June 24,	--
Chimnies.	Lewis Lecesne, Philadelphia	June 26;	--

Combs, mode of making from hoofs.	R. Gedney, N. Y.	June 26,	1809
Combs.	Timothy Stanley, Southington, Conn.	July 6,	--
Clay, machine for tempering.	John Matthews, Baltimore	July 6,	--
Corn-stalks, mode of distilling from.	B. Allison, Philadelphia	July 6,	--
Cheese press.	Ben. Atwell, Burlington, N. Y.	July 18,	--
Cabouse, improvement in the.	Geo. Youle, New York	July 27,	--
Churn.	Thomas Nicholson, Washington	Aug. 10,	--
Churn.	Ben. W. Laphis, Durham, N. H.	Aug. 15,	--
Churn.	Nath. Harrington, White's Town, N. Y.	Oct. 11,	--
Clock, in the striking part of.	Lemuel G. Kilborn, Penn.	Oct. 12,	--
Corn.	See <i>Furrowing, etc.</i>		
Churn.	Benjamin Atwell and Israel Nichols, Otsego, N. Y.	Oct. 14,	--
Cotton, hay, etc., machine for binding.	J. Simmons, Philad <sup>a</sup>	Nov. 7,	--
Churn.	Enoch Burt, Princeton, New Jersey,	Nov. 20,	--
Circular saw mill.	Geo. Huling, Shaftsbury, Vermont	Nov. 24,	--
Compass, mariner's.	Wm. Russell, New Bedford, Mass.	Dec. 1,	--
Churn.	John Whitmore, Litchfield, Conn.	Dec. 8,	--
Chain band with buckets.	Stephen Belnap, New York.	Dec. 29,	--
Churn.	Daniel Osborn, Berkshire, Mass.	June 8,	1810
Carding and spinning wool, by one operation.	Alanson Holmes, Pomfret, N. Y.	June 8,	--
Coopering machine.	Oliver Barber, Hartford, Conn.	June 8,	--
Camphor, mode of refining.	Henry Mead, New Haven, Conn.	Feb. 12,	--
Counterfeits, mode of preventing.	George Murray, Philadelphia, Penn.	Feb. 13,	--
Cheese press.	E. Raymond, Sherburn, New York.	Feb. 21,	--
Cotton press.	Richard V. W. Thorne & J. Thorne, N. York.	Feb. 22	--
Churn.	Benjamin Fairbanks, Worcester, Mass.	March 5	--
Combs, machine for manufacturing ivory.	David Williams, 3d, Saybrook, Conn.	March 28	--
Churn.	Aaron Smith, Finsborough, Mass.	April 11,	--
Copperplate printing, mode of putting on the ink.	Andrew Meverick, New York.	April 17,	--
Cheese, vat for pine-apple cheese.	Lewis Mills, Norton, Goshen, Conn.	April 17,	--
Chimneys, to prevent smoking in.	Oliver Richardson, Medway, Mass.	April 18,	--
Carbonated silk and paper.	Joseph Hartson, Philadelphia.	April 20,	--
Coaches and other carriages.	Frederick Bremler, New York.	April 24,	--
Cleaning grain from seed, machine for.	Wm. H. Peabody, Woodbury, Conn.	June 8,	--
Counterfeits, mode of preventing.	Jacob Perkins, Boston.	June 16,	--
Cartouch Boxes, machine for boring blocks for.	Valentine Bogenruff, Georgetown, D. C.	July 10,	--
Churn.	E. Bacon, Hancock county, Mass.	July 26,	--
Cramping Suwarrow boot-legs.	Eleazer Lumby, New York.	Aug. 14,	--
Chaise.	See <i>Grecian</i> . Pheneas Dow.		
Carbonic Acid gas, mode of saturating liquids with.	Charles D. Simmons and Jean J. Kindell, Charleston, S. C.	Aug. 16,	--
Combs, socket hair.	Eli Parsons, Bristol, Conn.	Aug. 16,	--
Churn.	Simeon Gray, Genessee, N. Y.	Aug. 17,	--
Carriage, block for sawing.	William Underwood, Herkimer, N. York.	Sept. 6,	--
Columbian balance.	Wm. Granger, Middlebury, Va.	Sept. 8,	--
Cancer, composition for curing.	Elias Willan, Albany, N. Y.	Oct. 8,	--
Currying knife.	S. Parsons, Parsonsfield, Mass.	Oct. 25,	--
Capstan.	See <i>Windlass</i> . John Galvid.		
Clocks for fluids.	Josiah Witherle, Boston.	Jan. 16,	1811
Combustion and explosion.	Augustus Day, Bordentown, N. J.	Jan. 19,	--
Churn.	Joseph Beach, Northfield, Mass.	Jan. 24,	--
Cotton gin.	R. Hancock, sen. and E. W. Carr, Philadelphia.	Feb. 6,	--



Churn. Lewis Cleveland, Holliston, Mass.	- - -	Feb. 7, 1811
Corn stalks, making spirits from. J. Saunders, Schenectady, New-York	- - -	Feb. 11, --
Columbian oil, making. Thomas Paul, Baltimore	- - -	Feb. 23, --
Cutting. See <i>Grain</i> . John Comfort.		
Condensation of vapours. Noel Blanche, New York	- - -	March 2, --
Clover seed, machine for. Nethemiah Price, Frederick county, Maryland	- - -	March 2, --
Chain paddles for boats. Azael Pierson, Cumberland co. N. J.	- - -	March 2, --
Condenser. Lyman Cook, Whitestown, N. Y.	- - -	March 26, --
Churn. Henry Mumford, Ulster county, N. Y.	- - -	March 28, --
Carriages. Moved by manual labor. L. Cook, Whitestown, New York	- - -	March 28, --
Cards, machine for straining and grinding. John Boynton, Windham co. Conn.	- - -	March 30, --
Cooking stove. Andrew Sherwood, New York	- - -	April 25, --
Churn. Daniel Robertson, Franklin, New-York	- - -	May 3, --
Carriages, in the bodies of. Edward Gibson, New-York	- - -	May 10, --
Carding machine. Heman Palmerler, Shoreham, Addison co.	- - -	May 25, --
China and glass, composition for. Harvey Bascon, Weston, Massachusetts	- - -	June 10, --
Chair bottoms. Abner Ellis, Dedham, Mass.	- - -	June 12, --
Cotton-spinning machine. J. G. Baxter, Philadelphia	- - -	June 22, --
Chopping meat, etc. Haziel Smith, Philadelphia	- - -	July 19, --
Churn, vibrating. Thomas Pratt, Cheshire, N. H.	- - -	Sept. 12, --
Churn. J. H. Shepard, Canaan, Mass.	- - -	Oct. 1, --
Cutting wheat, etc. W. P. Claiborne, King William's co. Va.	- - -	Oct. 12, --
Clapp's crank engine, improvement on. Joseph Clapp, Green- field, Mass.	- - -	Nov. 16, --
Churn. Adam Sheble, Philadelphia	- - -	Nov. 27, --
Cotton, machine for roving. O. Barret, jun. Scaghticoke, N. Y.	- - -	Dec. 3, --
Cotton. See <i>Flyers</i> . Azariah Walton.		
Cotton, etc. machine for spinning. G. Brewster, G. Trumball, and J. Matthews, Bane, Vermont	- - -	Jan. 16, 1812
Cotton, etc. machine for cleaning. E. Raymond, Norton, Mass.	- - -	Jan. 18, --
Coaches, etc. construction of. Fred. Biemler, New York	- - -	Jan. 21, --
Case, or stove for kettles, etc. Charles Gaston, Williamsport, Pennsylvania	- - -	Jan. 31, --
Chimneys, backs for. Joel Root, Southington, Conn.	- - -	Feb. 13, --
Clocks, pinions of. Ira Ives, Bristol, Conn.	- - -	Feb. 24, --
Carriages, construction of. Dan. Neal, Milford, Delaware	- - -	Feb. 26, --
Chimney regulator. D. Shoemaker, Philadelphia	- - -	March 27, --
Candles from tallow and wax. James Zwisler, Baltimore	- - -	April 2, --
Churn, horizontal. John Davidson, Cheshire, N. H.	- - -	April 3, --
Camphire, refining. J. Green, Charleston, Massachusetts	- - -	April 27, --
Chair bottoms. J. Elliot, jun. Philadelphia	- - -	April 26, --
Consumptions, cure for. C. Shaw Long, Philadelphia	- - -	April 27, --
Cheese press. W. W. Townsend, Addison, Vermont	- - -	June 13, --
Canker worm, preventing the. Paul Adams, Newbury, Mass.	- - -	June 19, --
Cordage, machine for making. A. Hill, Walpole, N. H.	- - -	June 30, --
Candle-holder, economical. P. Ward and B. Allison, Phil.	- - -	July 20, --
Cloth, machine for finishing, etc. S. Hart, Hamstead, N. Y.	- - -	July 27, --
Chain carts and railways. John H. Morrison, Boscawen, N. H.	- - -	Sept. 28, --
Cooking apparatus. J. Morris, New Haven. Conn.	- - -	Oct. 3, --
Cider. See <i>Wine</i> . Henry Seabolt.		
Cloth, made by felting. O. Barrett, jun. Troy, N. Y.	- - -	Dec. 8, --
Cabouse. John Bouis, Baltimore	- - -	Dec. 31, --
Cloth and blanket making. Allen Barnes, Sam. Gray, and Jabez Clark, Windham, Conn.	- - -	Feb. 3, 1813
Carding cloth. John Jessup, Orange county, New York	- - -	Feb. 6, --



Carding, spinning, and roving. T. Norton and Geo. Biddis, Milford, Penn.	April 15,	1813
Carriage to be moved by hand. D. Nine, jun. Reading, Penn.	May 4,	--
Cartouch box. Jonathan Mix, New York	June 3,	--
Cradle. Samuel Pope, Windsor, Conn.	June 5,	--
Cloth from hair. W. Shotwell and A. Kinder, N. Y.	July 23,	--
Churn, pendulum. Silas Hitchcock, Vernon, N. Y.	Aug. 7,	--
Cylindric polisher. Eben Stowell, Middlebury, Ver.	Aug. 20,	--
Comb twinning machine. D. Carrington and Ira Ives, Litchfield,	Aug. 20,	--
Cylinder, re-acting, etc. T. Powell, New York	Dec. 3,	--
Churn. Wm. Humphrey, Ohio	Jan. 5,	1814
Card boards, smoothing. D. Stearns, Battleboro', Vermont	March 10,	--
Comb-cutting machine. J. H. Derby, Leominster	March 26,	--
Canker drops. D. Holbrook, Onondago, N. Y.	March 28,	--
Cotton seed, machine for hulling. J. Lineback, Salem, N. C.	March 31,	--
Corn, machine for planting. John Blocher, Lancaster, Penn.	April 12,	--
Carriage springs. R. and I. C. Humphreys, Cantwell	April 22,	--
Carding wool. Lewis French, New Haven, Conn.	May 18,	--
Cheese press. Joseph Goulding, Worcester, Mass.	May 27,	--
Cornices for houses. T. K. Beale, Alexandria, D. C.	May 28,	--
Cup and saucer, Columbian. John Love, Baltimore	June 14,	--
Candles, mould and dipt. J. Zwislser, New York,	July 1,	--
Cloth, machine for shearing. B. Swift, Washington, N. Y.	July 1,	--
Chimney stove. C. Varle, Fredericktown, Md.	July 1,	--
Carriages. B. Peck, Philadelphia	July 5,	--
Cock stop. D. Sharman, Warren, N. Y.	July 5,	--
Clover seed, machine for cleaning. H. Spickard, Faircastle, Virginia	Aug. 16,	--
Clocks, pinions for. H. Bronson and J. Curtis, Waterbury, Connecticut	Aug. 22,	--
Clock, wooden. J. Harrison, Boston	Aug. 22,	--
Clocks, for pointing wire for. A. Sperry, Waterbury, Conn.	Aug. 22,	--
Clock plates, boring. Joel Curtis, Cairo, N. Y.	Aug. 23,	--
Clocks, machine for cutting teeth. Joel Curtis and D. Bradley, Connecticut	Aug. 22,	--
Clocks, machine for cutting teeth. A. Hopkins, Litchfield, Connecticut	Aug. 22,	--
Chimnies and fire places. Adam Spohn, Comrio, Pennsylvania	Sept. 22,	--
Cloth shearing machine. C. H. Orth and Frederick Strohn, Steubenville, Ohio	Oct. 11,	--
Comb twinning machine. S. Hills and Moses Emery, jun. Newburyport, Massachusetts	Oct. 21,	--
Cultivating the earth. James Hall, Va.	Nov. 19,	--
Carriages, wheel. Hor. Gates, Spafford, Albany, N. Y.	Nov. 25,	--
Chimnies, machine for sweeping. J. Bruff, Washington, D. C.	Dec. 16,	--
Colors, permanent for calicoes. Augustus Boulter	Dec. 24,	--
Carriages, hanging and placing steps. J. J. Wells, Hartford, Connecticut	Jan. 24,	1815
Cleaning wheat. William Davis, Fairfield, Connecticut	Jan. 24,	--
Clover seed, cleaning. S. Arnold, Bottetort, Virginia	Jan. 25,	--
Cradle. Peter Cooper, Hampstead, New York	March 27,	--
Combs, cutting horn or tortoise shell. Simeon Allen	April 1,	--
Colors, prepared with lime. J. Nicholas, junior, Bradalbin, New York	April 12,	--
Clover seed, gathering. John Smith, Fredericksburg, Virginia	April 28,	--
Churn. Joshua Lane, Homer, New York	May 15,	--
Cotton, machine for drawing, roping, etc. W. Tiffany and P. Allen, Otsego, New York	July 17,	--
Cotton Spinning. L. Bissel, L. C. Himmans, and S. Wilson, Otsego, New York	July 17,	--
Corsets. Mary Brush, New York	July 21,	--

Charcoal, making for gun powder.	F. Parker, Prince George's county, Maryland	July 25,	1815
Cataract, removing by points, etc.	F. B. Shaw, Philadelphia	July 27,	--
Candle moulds.	D. M. Randolph, Richmond, Va.	Aug. 1,	--
Cards, making machine and hand.	W. Barker, Smithfield, R. I.	Aug. 12,	--
Cards, composition for.	John M. Gates, Warren, Mass.	Sept. 14,	--
Carding machine, gleaning savers.	J. Hugus, Greenbush, Penn.	Sept. 15,	--
Cancers, curing.	Jacob Ware, Philadelphia	Sept. 20,	--
Cooking machine.	John Seger, New York	Nov. 14,	--
Cotton gin.	Isaiah Jennings, New York	Dec. 27,	--
Churn.	A. and H. K. Corneli, Cambridge, New York	Jan. 15,	1816
Corn cobs, spirits made from.	J. and S. Demund, New Jersey	Jan. 17,	--
Carding woolen cloths.	J. A. Christie, Elizabeth Town, N. J.	Jan. 24,	--
Cheese press.	J. Bigelow, Mount Pelier, Vermont	Jan. 25,	--
Cock, block tin stop.	John Morris, New Haven, Conn.	March 7,	--
Carpenter's sliding dovetail joint.	G. B. Raymond	March 26,	--
Combs, making.	Eli Sperry, New Haven, Conn.	March 28,	--
Churn.	John Erving, Boston	April 30,	--
Cutting comb teeth.	M. J Littleboy, Philadelphia	May 28,	--
Clocks, thirty hours, brass and wooden.	E. Terry, Litchfield, Conn.	June 12,	--
Chair, Eagle.	William J. Wever, New York	June 14,	--
Charcoal, making.	Andrew Kurtz, Philadelphia	June 28,	--
Combs, machine for twinning.	Samuel Parmele, Saybrook, Connecticut	July 15,	--
Cutting machine, for beating and bruising.	Adam Britz, Phil.	July 18,	--
Churn.	Artimas Bills, Baltimore	July 29,	--
Cancers, cure for.	James Andrus, Hillsborough, N. H.	July 30,	--
Churn.	Benjamin Webb, Tolland, Connecticut	Aug. 22,	--
Cider and vinegar made of offals.	W. Richardson, Kingston, New York	Aug. 26,	--
Coquing, or dowelling instrument.	W. Bowhay, Philadelphia	Oct. 14,	--
Catheter, flexible metallic.	Israel Palch and Moses Carter, Salisbury, Massachusetts	Oct. 26,	--
Chairs.	See <i>Posts for</i> Elijah Farrington, New York.		
Chair bottoms.	John Wall, Philadelphia	Oct. 29,	--
Cotton gin.	Englehart Cruse, Charleston, S. C.	Nov. 18,	--
Churn.	Abel Bradway, Monson, Mass.	Nov. 25,	--
Cotton gin.	Isaiah Jennings, New York	Jan. 17,	181
Cards, making, grinding, &c.	G. Drake, Windsor, Connecticut	Feb. 28,	--
Couch, accommodation.	John Mead, Albany, New York	March 14,	--
Convalescent chair.	John Mead, Albany, New York	March 13,	--
Composition for covering houses.	A. Rogers, Hudson, N. Y.	March 14,	--
Compressed air, to propel boats by.	J. L. Sullivan, Boston	March 24,	--
Chimnies, construction of.	L. D. Detroitmonts, New York	April 5,	--
Copy books, composition for.	Richard Wall, Philadelphia	April 28,	--
Cloth, shearing machine.	James Collins, Anson, Somerset, Md.	June 10,	--
Combs, machine for cutting.	T. G. Thomas, Philadelphia	June 14,	--
Chimnies, machine for sweeping.	J. Hunt, Baltimore	July 12,	--
Cloth shearing machine.	Eliphalet Remington, Frankfort, New York	Aug. 13,	--
Comb, machine for twinning.	D. E. Noyes, Philadelphia	Sept. 6,	--
Carriage life preserver.	H. G De Grandval, Portsmouth, New Hampshire	Oct. 3,	--
Carriages.	Ben. Had, Newburyport, Mass.	Oct. 4,	--
Cordage, machine for laying.	C. Lenox, Sargent, Suffolk, Massachusetts	Oct. 4,	--
Cordage, machine for making.	S. and J. A. Bazin, Canton, Massachusetts	Oct. 17,	--
Candle Moulds.	Joshua Witherle, Boston	Oct. 24,	--
Cloth, milling, fulling, &c.	M. Lee, Otsego, N. Y.	Nov. 6,	--

Cement, to be used under water.	John Grant, Saratoga, N. Y.	Nov. 11,	1817
Chimnies, machine for sweeping.	E. Paine, Philadelphia	Dec. 11,	--
Cotton hopper.	Guordon F. Saltonstall, Cumberland, N. C.	Dec. 31,	--
Cannon, mode of pointing.	J. Blach, Northumberland, Penn.	Jan. 17,	1818
Cloth shearing machine.	Wm. Stillman, R. I.	Jan. 17,	--
Combs, horn.	Macpherson Smith, Poughkeepsie, New York	Jan. 20,	--
Combs, metallic.	W. A. Langworthy, Balstown Springs	Feb. 28,	--
Cloth shearing machine.	D. Dewy, Poultney, Rutland, Va.	March 16,	--
Churn.	Nathan Porter, Hartford, Conn.	April 7,	--
Cutting machine for soft substances.	A. King, Lancaster, Penn.	May 28,	--
Churn.	T. T. Storm, New York	May 28,	--
Combs, metal hair.	Lineus North, Otsego, N. Y.	May 28,	--
Circular saw.	W. F. Hill, New York	July 11,	--
Casks, making.	J. Little, Hillsborough, N. H.	July 25,	--
Cotton yarn, machine for spinning.	P. Arnold, Conn.	Aug. 1,	--
Combs, manufacturing.	D. Pettibone, Philadelphia	Aug. 18,	--
Chrystallizing tin.	G. F. Valentine, Albany	Aug. 26,	--
Cloth shearing, napping, &c. machine for.	John J. Bryant, Andover, New Hampshire	Sept. 2,	--
Cotton, machine for roping, winding and twisting.	David Grieve, Providence, R. I.	Sept. 18,	--
Columns, machine for ornamenting.	C. Durand, Springfield, New Jersey	Sept. 22,	--
Carriages, improvement in.	J. B. Swan, Albany, N. Y.	Sept. 29,	--
Catch for window shutters, improvement in the.	Noble Hurdle, Georgetown, D. C.	Oct. 1,	--
Chopping sausage meat, machine for.	David Beissel, Harrisburg, Pennsylvania	Oct. 26,	--
Cotton, machine for inspecting.	Lewis Viales, New Orleans	Oct. 29,	--
Corn sheller, improvement on Z. Phinney's.	Hugh Gallagher, Pittsburg, Penn.	Oct. 29,	--
Castor oil, clarifying.	J. Hallock, Philadelphia	Nov. 5,	--
Cloth, machine for napping, &c.	L. and J. Prescott, Pittsburg	Nov. 5,	--
Coaches, improvement in the springs for.	M. H. Beneville, Canterbury	Nov. 17,	--
Conduit pipes, improvement in.	Joshua Clarke and L. Crowell	Dec. 18,	--
Conduit pipes, improvement in.	Elisha Putnam, Albany, N. Y.	Nov. 18,	--
Cloth, machine for teazling and napping.	A. Foster, Putney, Vermont	Nov. 25,	--
Cordage, machine for making.	William B. Leonard, Fishkill, New York	Jan. 9,	--
Corks, machine for making bottle.	James Barron, Hampton, Virginia	Jan. 12,	--
Cooking stove.	Palmer Jenkins, Hebron, Washington county, New York	Feb. 6,	--
Churn.	Joseph Lloyd, Orange county, New York	March 2,	--
Cloth shearing machine.	S. Parsons, Hoosack, Ranslaer county, New York	March 2,	--
Churn.	William L. Frazer, Oxford, Chinango co. N. Y.	March 19,	--
Chronometer.	Samuel S. Edmonston, New York	April 3,	1819
Cordage, machine for making.	Robert Graves, Boston	April 10,	--
Clearing obstructed channels or docks, machine for.	T. Baker, Providence, R. I.	April 12,	--
Corn shelling machine, improvement in the.	Walter Jones, Ashford, Conn.	May 6,	--
Composts for soils.	Anthony B. Martin, Baltimore	May 29,	--
Carbonated mead.	James Heaton, New York	July 28,	--
Cultivator, American.	Fred. Miner, New London, Conn.	Aug. 21,	--
Cast steel welded to iron.	Daniel Pettibone, Boston	May 21,	--
Cards, machine for pricking holes in leather.	J. Lamb, Leicester county	Aug. 21,	--

Coaches, improvement in.	S. Draper, Brookfield, Mass.	Aug. 26,	1819
Carbonated liquid cream tartar.	Sophia Usher, New York	Sept. 11,	--
Cotton seed, food for cattle.	Dan. Gillet, junior, Springfield, Massachusetts	Sept. 15,	--
Comb cutting machine.	D. E. Noyes, Philadelphia	Oct. 14,	--
Comb cutting machine.	Nison Foot, Philadelphia	Oct. 28,	--
Combs, machine for making.	Ben. Haskill, Paris, Fr.	Nov. 3,	--
Cleaning streets, roads, etc.	John Tucker, New York	Nov. 10,	--
Clocks, improvement in.	Simon Willard, Boston	Dec. 13,	--
Cloth shearing machine.	Elihu Hotchkiss and Aaron Jaguas, Windham, Vermont	Dec. 15,	--
Churn, improvement in the.	John Hall, Hillsborough, N. H.	Dec. 15,	--
Candles, moulding sperm.	W. W. Swain, New Bedford, Mass.	Jan. 14,	1820
Corn sheller, improvement on W. Jones'.	Rufus Guthrie, Brimfield, Mass.	Jan. 18,	--
Coating for ships' bottoms.	James Russel, New Bedford, Mass.	Jan. 29,	--
Cement, water proof.	Canvass White, Whitestown, Oneida, New York	Feb. 1,	--
Coffee roaster, improvement in the.	Peregrine Williamson, Baltimore	March 20,	--
Circular saw.	Robert Eastman and Josiah Jaquitt, Brunswick, Massachusetts	March 26,	--
Canals, machine for excavating.	Ichabod L. Skinner, Hartford, Connecticut	May 3,	--
Cheese, mode of packing.	Alexander Norton, Goshen, Conn.	May 6,	--
Corn cracker.	Nathan Read, Belfast, Maine	May 8,	--
Cloth, machine for napping, etc.	John Byram and S. D. Fuller, Mendham, N. J.	April 4,	--
Coal, etc. machine for drawing.	Edward E. Danley, Fredonia, Indiana	May 12,	--
Candle wick, machine for making.	Shaylor Ives, Chillicothe, Ohio	May 17,	--
Currying knife.	Daniel Tomlinson, Brookville, Conn.	July 16,	--
Carpeting, ingrained.	John and Nicholas Haight, New York	Aug. 12,	--
Clocks and watches.	James Henry, Maysville, Kentucky	Sept. 13,	--
Cocks, improvement in.	E. Hubball, Baltimore	Oct. 4,	--
Cotton, machine for spinning.	William Bald, jun. Providence, Rhode Island	Oct. 4,	--
Cocks, valve.	John Cluley and Benjamin Stancliffe, Phil.	Nov. 8,	--
Chimneys, machine for sweeping.	Samuel S. Edmonston, N. Y.	Nov. 8,	--
Cooperage, machine for doweling.	Ralph Hunt, Ontario, N. Y.	Dec. 11,	--
Corn shelling machine.	Henry and Elbert J. Roosevelt, N. Y.	Jan. 26,	1821
Cordage, machine for laying.	Robert Graves, Boston	Feb. 1,	--
Cement, water proof.	Canvass White, Whitestown, New York	Feb. 17,	--
Cotton, foot gear for cleaning.	William Gould, M'Intosh co. Georgia	Feb. 20,	--
Do. Roping (double speeder.)	Paul Moody, Boston	Feb. 19,	--
Do. Machine for roping or spinning.	Do. Do.	Feb. 19,	--
Do. Spinning frames.	Paul Moody, Boston	Feb. 19,	--
Cloth, machine for shearing.	Z. Carey, Oxford co. Maine	Feb. 20,	--
Clothes, dry scouring.	Thomas L. Jenning, New York	March 3,	--
Chimney and fire-place.	Obadiah Dilano, Utica, New York	March 3,	--
Crank, anti-friction for steam engines.	Benjamin S. Oliver, Salem, Mass.	March 9,	--
Candles, machine for dipping.	John Aborn, Nottingham, N. J.	March 20,	--
Cordage, improvement in the top sled for.	Robert Graves, Boston, Mass.	March 28,	--
Corn shelling machine, improvement in the.	Noah Lindsey, Catskill, New York	March 28,	--
Churn, improvement in the.	Adam Severt, Saratoga, N. Y.	April 9,	--



Carding machine, improvement in the.	Joshua Woodward, Franklin township, Ohio	May 2, 1821
Cutting clothes by rules.	Allen Ward, Huntsville, Alabama,	June 16, --
Cock for drawing liquors, improvement in the.	F. Delano, Philadelphia	June 29, --
Carriages, improvement in travelling.	George H Richards, New London, Conn.	Aug. 8, --
Churning by dog power.	Ceo. E. Reeve and Joseph Ketcham, Orange co. New York	Aug. 10, --
Cocks for draining liquors, etc.	Jonathan Bliss, New York	Sept. 24, --
Cement for mortar and stucco.	David Mead Randolph, Rich'd, Virginia	Sept. 25, --
Candles, machinery used in making.	Francis Fuller, N. Y.	Sept. 29, --
Chimneys, improvement in the stacks of.	Frederick Grey, Baltimore	Oct. 8, --
Cotton, machine for packing.	John Cook, Fayetteville, N. C.	Oct. 12, --
Chains for cables, improvement in.	I. Jennings, N. Y.	Oct. 29, --
Clocks, improvement in.	Joshua Burritt and W. P. Burdick, Ithaca, New York	Oct. 25, --
Canals, roads, etc. machine for digging.	John Humes, Richm'd, Virginia	Nov. 10, --
Chair, improvement in the rocking sofa.	B. Fenny, Readsbor', Vermont	Nov. 22, --
Condensers, improvement in the steam.	Thomas Skidmore, New York	Dec. 1, --
Candles, machine for making.	James Yard, Trenton, N. J.	Dec. 4, --
Cotton yarn, improvement in manufacturing.	Erastus Wolcott, Newport, New York	Dec. 11, --
Corsets, improvement in.	Wm. James, Cantelo, New York	Dec. 31, --
Cupola furnace, improvement in the.	Henry Worall, N. Y.	Dec. 31, --
Clocks, improvement in the machinery of.	Dean,	Dec. 31, --
Chaff, machine for breaking, etc.	John Bolton, Warren, N. Y.	Jan. 28, 1822
Chairs, improvement in nursing.	Andrew Woods, Charlestown, Jefferson co. Virginia	March 13, --
Clock cases, improvement in.	Joseph Ives, Bristol, Vt.	March 21, --
Cock, improvement in the metallic screw.	Jeremiah Carey, Baltimore	April 23, --
Clover seed, machine for getting out.	William Loomis, Ashford, Connecticut	April 27, --
Cock, stop.	John Morris, New Haven, Conn.	May 15, --
Cordage, machine for pressing the tar out of.	Thomas Barnitt, Philadelphia	May 20, --
Churn, improvement in the.	Benjamin Hayden, jr. Trenton, New Jersey	June 15, --
Churn, improvement in the.	Eleazer Brown, and Ansel Keith, Winfield, N. Y.	June 19, --
Cider, mode of fermenting apple.	William Elder, New Brunswick, New Jersey	Aug. 21, --
Cutting box, improvement in the.	William Willis, Lynchburg, Virginia	Aug. 24, --
Coffee, machine for hulling.	Nathan Read, Belfast, Maine	Sept. 10, --
Churn, improvement in the.	Samuel Clark, Morris county, New Jersey	Oct. 4, --
Coopers' work, machinery for.	Horace Wright, Onondaga, N. Y.	Oct. 23, --
Cloth, improvement in the machine for shearing.	Ezekiah Heald, Norridgwork, Maine	Dec. 4, --
Corn, improvement in the mode of grinding.	John Bicknell, Buckfield, Maine	Dec. 11, --
Casks, improvement in the mode of making.	U. Emmons, Green county, New York	Jan. 8, 1823



Clover seed, machine for cleaning. Nathan Mills and Isaac Rogers, Bath, New Hampshire	Jan. 14, 1823
Cotton yarn, machine for spinning. Elisha Fuller, Attleborough, Massachusetts	Feb. 6, --
Carpeting, improvement in making ingrain. Wm. A. Prince, New York	Feb. 12, --
Corn, machine for shelling. Samuel Spooner, Petersham, Mass.	Feb. 27, --
Cotton, improvement in the machine for cleaning. W. Hopkins, Plainfield, Conn.	March 6, --
Cotton, improvement in the machine for cleaning. George T. Sadler, Lawrence co. Alabama	March 10, --
Cradle, improvement on the grain. Isaac Babcock, Rensselaer county, N. Y.	March 24, --
Combs, mode of manufacturing. Ira Ives, Bristol, Conn.	April 5, --
Corn sheller, improvement in the. William E. Sheffield, N. Y.	April 15, --
Chair, improvement in the easy. Joseph D. Finney, Keene, New Hampshire	May 8, --
Clocks, wooden wheeled, thirty hour. Ely Terry, Plymouth, Connecticut	May 26, --
Clover seed, machine for cleaning. Thomas D. Burrall, Geneva, New York	June 5, --
Cotton gins, making saws and grates for. Eleazer Carver, jun'r, Bridgewater, Mass.	June 12, --
Cotton gins, improvement in. Eleazer Carver, jun. Bridgewater, Massachusetts	June 13, --
Cotton, improvement in manufacturing. John T. Sharrocks, Winchester, Va.	June 20, --
Cultivator, improvement in the. Stephen Hubbard and Joseph Greaves, Wilmington, Vt.	June 21, --
Cock, improvement in the stop. Gaius Fenn, New York	July 12, --
Carriages, construction of. Johh B. Swan, Albany, New York	July 24, --
Circular saws, improvement in. John Brown, Boston	Aug. 13, --
Chairs, machine for boring holes in. David Johnson, Richmond Ohio	Sept. 19, --
Corn stalks, machine for cutting. A. Glendenning, Butler co. Pennsylvania	Sept. 25, --
Circular saws, improvement in making. Silvanus Bonnel, Chatham New Jersey	Sept. 26, --
Crucibles, improvement in making. James Dalliba, Watervliet, New York	Sept. 26, --
Carding machine, improvement in the. P. C. Curtis, Paris, Oneida county, New York	Oct. 15, --
Cutting out clothes, mode of. Ethan Campbell, Philadelphia	Nov. 6, --
Canal locks, improvement in. Jonas P. Fairlamb, Wilmington, Delaware	Nov. 27, --
Cocks for drawing liquids. Eli Dickinson, Amherst Mass.	Dec. 17, --
Cotton scraper, improvement in the. Horatio Stark, Wilkinson county, Miss.	Feb. 3, 1824
Cloth shearing machine, improvement in the. Beriah Swift, Washington, N. Y.	Feb. 7, --
Cotton, improvement in the process of manufacturing. Elisha Congdon, Norwich, Conn.	March 12, --
Copper bolts, making. Berg and Ivers, New York,	March 15, --
Carriages, wheel improvement in. Bernard J. Malfeson, Burlington N. J.	April 6, --
Corn shelling machine, improvement in the. Lemuel Peck, Brookfield, Ct.	April 9, --
Corn shelling machine, improvement in the. John Moon, Fall's township, Bucks co. Penn.	April 20, --
Cotton plant, improvement in cultivating the. S. W. Pomeroy, Brighton, Mass.	May 6, --

Clover seed, machine for cleaning.	Isaac H. Haskin, Columbia, New York	May 6, 1824
Cement, improvement in fire-proof.	H. Heiner, Mifflin township, Pennsylvania	May 10, --
Crossing or colapsing lever power.	William Scarbrough, Darien, Georgia	May 19, --
Corn shelling machine, improvement in the.	Hiram Hubbard, Palmyra, N. Y.	June 17, --
Carriage springs, improvement in.	Lemuel H. Parsons, Stock- bridge, Mass.	June 23, --
Carding machine, improvement in the.	C. Whiting, S. Lowder, and S. Lowder, jr. Dedham, Mass.	June 25, --
Chimneys, curing smoky.	Samuel Chase, Williamsport, Penn.	July 26, --
Crimping boots.	Ebenezer, G. Pomeroy, Lancaster, Ohio	July 27, --
Cotton gin, running gear for the.	Brittain Huckaby, Huntsville, Alabama	Aug. 16, --
Cutting straw, stocks, &c.	Noah Safford, Springfield, Vt.	Aug. 25, --
Cotton roping, machine for making.	George Danforth, Norton, Massachusetts	Sept. 2, --
Crank wheel motion.	James Wallace, Columbia, S. C.	Sept. 25, --
Curriers' knives, machine for sharpening.	James Bachelder, New Hampshire	Nov. 9, --
Corn shelling machine.	Lewis Whitney, New York	Nov. 13, --
Corn shelling machine.	Benjamin Crooker, New York	Dec. 2, --
Combs, mode of cutting.	Joel Brown, Springfield, Mass.	Dec. 8, --
Cheese press, improvement in the.	Joseph Pride, Pottsdam, New York	Dec. 9, --
Cellars, vaults, &c. construction of.	E. Ludlow, N. Y.	Dec. 14, --
Cloth shearing machine.	Wm. Hovey, Worcester, Mass.	Dec. 17, --
Corn shelling machine.	Alanson Little, Columbia, Conn.	Dec. 21, --
Cutting and rolling crackers.	Daniel Pool, Philadelphia	Dec. 24, --
Clapboards, machine for sawing.	E. Pray, E. Benjamin, and J. S. Stone, Livermore, Maine	Dec. 98, --
Corn sheller, improvement in the.	Peirson Reading, Trenton, New Jersey	Dec. 27, --
Coffee, machine for hulling and cleaning.	Roswell Abbey, N. Y.	Jan. 1, 1825
Cordage, machine for manufacturing.	Franklin Kellsey, Middle- town, Conn.	Feb. 8, --
Condensing steam and cooling liquor.	Benjamin F. Joslin, N. Y.	Feb. 9, --
Chimneys and fire places.	Lewis Kingsbury, Livonia, N. Y.	Feb. 9, --
Clover and other seeds, machine for cleaning.	B. Sutton, Romulus, New York	Feb. 10, --
Cooking apparatus, portable.	David Asher, Philadelphia	Feb. 18, --
Carding machine, wool.	E. Hale, jr. S. Hale, and J. Hale, Haverhill, Mass.	Feb. 18, --
Carding, improvement in wool.	N. Rider, Sturbridge, Mass.	March 12, --
Centre-board, used in vessels.	G. Fountain, Staten Island, New York	March 15, --
Changing the motion of machinery.	Ottis Pettee, Newton, Massachusetts	March 15, --
Cotton, separating the seed from.	Joseph C. and Thadeus Leavitt, Suffield, Conn.	March 24, --
Churning, machine for.	Abiram Baird, Scobarrie, N. Y.	March 15, --
Cloth, machine for scouring and fulling.	H. Hickox, Rutland, New York	March 26, --
Cloth, manufacturing into yarn.	Luther Crane, Ware, Mass.	March 26, --
Churn, improvement in the.	John P. Bortle, Claverack, Columbia county, N. Y.	April 14, --
Corn, shelling and grinding.	Samuel Fowkes, Catskill, N. Y.	May 4, --
Corn shelling machine.	Francis Price, New York	May 4, --
Cotton, packing.	Webb Hart, Petersburg, Va.	May 5, --

Glocks, astronomical.	Henry Miller, East Hanover, Lebanon, Pa.	-	-	-	May 5, 1825
Churn, impt. in the.	Asa Humphrey, Gray, Maine	-	-	-	May 9, --
Cutter, rivet and bolt.	Holly Seely, Unadilla, New-York	-	-	-	May 12, --
Cloth, improvement for raising the nap of.	Job Wilkinson, New-York	-	-	-	May 12, --
Clocks, wooden wheeled 30 hours.	Eli Terry, Plymouth, Conn.	-	-	-	May 18, --
Cotton planting, impt. in the mode of,	C. Ford, Painville, Virginia	-	-	-	May 26, --
Coaches, impt. in making posts.	Richard Ward, Schenectady, New-York	-	-	-	June 2, --
Cloth, machine for templing.	Philo C. Curtis, Paris, New-York	-	-	-	June 16, --
Coffee, machine for roasting.	Peregrine Williamson, Baltimore, Maryland	-	-	-	June 18, --
Coal, impt. in a kiln for charing.	Conrad Kownslar, Mill Creek, Virginia	-	-	-	June 20, --
Corn shelling machine, impt. in the.	William C. Hawley, N-Y.	-	-	-	June 22, --
Corn, impt. in the machine for shelling.	John Moore, Morrisville, Pa.	-	-	-	June 27, --
Cloth, impt. in the machine for napping.	S. Marsh, Fairfax, Vt.	-	-	-	July 20, --
Cider mills, impt. in.	T. Showerman, Covington, N-Y.	-	-	-	July 20, --
Corn shelling machine, impt. in.	Samuel Lane, Hallowell, Maine	-	-	-	Sep'r 9, --
Clocks, wooden wheeled 30 hours.	Eli Terry, Plymouth, Conn.	-	-	-	Sep'r 9, --
Combs, impt. in a machine for cutting	P Pratt, New-York	-	-	-	Sep'r 9, --
Carriage, impt in the Calash top.	G. Holloway, Baltimore, Md.	-	-	-	Sep'r 9, --
Cotton packing, machine for.	Lewis Layssard, Halifax, North-Carolina	-	-	-	Sep. 28, --
Churn, double dash.	Ezekiel Waterhouse, Gardiner, Maine	-	-	-	Sep. 29, --
Coffee, mode of extracting strength of roasted.	Lewis Martelly, New-York	-	-	-	Sep. 30, --
Cotton. impt. in the machine for pressing.	J. N. Gordon, Plymouth, N. C.	-	-	-	Oct. 8, --
Canal boats, machine for raising.	S. Doolittle, Rochester, N-Y.	-	-	-	Oct. 25, --
Corn shelling machine, impt. in the.	Amon Bailey, Poutney, Vermont	-	-	-	Nov. 1, --
Chiro velocipede, impt. in.	Gideon Barker, Providence, R. I.	-	-	-	Nov. 1, --
Currier's knife, impt. in the.	James Batchelder, Lancaster, N. Hamp.	-	-	-	Nov. 3, --
Cast iron shoes, for horses, impt. in.	S. W. Whitman, Madison, Ohio	-	-	-	Nov. 4, --
Cultivator, impt. in the teeth, &c. f.	William Beach, Phil'a	-	-	-	Nov. 8, --
Coach lace, making,	William G. Barnet, Newark, N. Jersey	-	-	-	Nov. 18, --
Cutter, in the punch rivet and screw.	L. C. Judson, Waterville, N-Y.	-	-	-	Nov. 18, --
Combs, in cutting	Philo Pratt, Meredin, Conn.	-	-	-	Nov. 22, --
Churn, cutting curds, &c.	James Buck, Cha ham, Conn.	-	-	-	Dec. 5, --
Cutting paper, machine for.	John M'Clintick and George Faber, Chambersburg, Penn.	-	-	-	Dec. 18, --
Cement, water.	Simeon Guilford, Lebanon, Penn.	-	-	-	Jan. 11, 1826
Carriages, mode of retarding.	Ezra Slifer, Boonsborough, Md.	-	-	-	Jan. 16, --
Cooking apparatus, impt. in a.	John Bouis, 78, Baltimore st. Baltimore	-	-	-	Jan, 19, --
Corns, tincture for curing.	Elisha Smith, New Brunswick, New-Jersey	-	-	-	Jan. 20, --
Cooking stove, impt. in the.	David Little, Hagerstown, Md.	-	-	-	Feb. 1, --
Cotton, cleaning Sea Island.	Jesse Reed, Marshfield, Plymouth, Massachusetts	-	-	-	Feb. 3, --
Canals, digging.	Jeremiah Brainard, Rome, Oneida county, New-York	-	-	-	Feb. 10, --

Cotton, machine for cultivating.	Francis H. Smith, Richmond, Virginia,	-	-	-	-	Feb. 15,	1826
Clocks, wooden wheel 30 hours: (re-issued.)	E. Terry, Plymouth, Conn.	-	-	-	-	Mar. 4,	--
Chests, wrought iron.	Jesse Delano, New-York	-	-	-	-	Mar. 7,	--
Candles, machinery for dipping.	William Day, Gardiner, Me.	-	-	-	-	Mar. 11,	--
Currying leather, knife for.	Freeman Palmer, New-Hamp.	-	-	-	-	Mar. 17,	--
Cotton press.	Gideon Glenn, Louisburg, North-Carolina	-	-	-	-	April 12,	--
Carpeting, loom for weaving.	Horace Baker, North Salem, New-York,	-	-	-	-	April 14,	--
Carronades, &c. elevating screw for.	Enoch Hidden, N. Y.	-	-	-	-	April 26,	--
Cotton press, combined lever.	Eml. Venear, Halifax, N. Car.	-	-	-	-	May 10,	--
Canals, machine for excavating.	Lot Forrester, Ridgefield, Connecticut	-	-	-	-	May 10,	--
Cordage, machine for making.	Erastus Bartholomew, Boston	-	-	-	-	May 17,	--
Chain cables,	Do	-	-	-	Do	May 17,	--
Circular saw.	William Kendall, jr. Maine	-	-	-	-	May 18,	--
Carts and wagons, mode of loading.	Noah Osborn, Fairfield, Connecticut	-	-	-	-	May 23,	--
Canals, inclined rail-way for removing earth from.	William H. Doll, Harrisburg, Penn.	-	-	-	-	May 29,	--
Chimneys, improvement in.	A. G. D. Tuthill, Utica, N. Y.	-	-	-	-	June 8,	--
Cotton, mode of taking from the doffer.	Elijah Thompson, Lowell, Mass.	-	-	-	-	June 9,	--
Cotton and wool, machine for spinning.	William Carmichael, Sandy lake, N. Y.	-	-	-	-	June 10,	--
Cotton, flax and wool, rolling or twisting.	William Whitehead, jr. Patterson, New-Jersey	-	-	-	-	June 14,	--
Cataract, instrument used for the.	Thomas R. Williams, Philadelphia	-	-	-	-	June 14,	--
Corn shelling machine.	Jeremiah Dodson, Guilford, N. Carolina	-	-	-	-	June 15,	--
Clocks, 30 hours, wooden wheeled. (re-issued,)	Eli Terry, Plymouth, Conn.	-	-	-	-	July 5,	--
Cleave harrow for clearing ground.	Lemuel Tam, Sussex county, Delaware	-	-	-	-	July 11,	--
Cartridges for blasting rocks.	John B. Ives, Lebanon, Penn.	-	-	-	-	July 17,	--
Composition, applied to wool.	Ziba Parkhurst, Grafton, Mass.	-	-	-	-	Aug. 19,	--
Carding machine, improvement in.	James H. Arnold, Belmont, Ohio	-	-	-	-	Sep. 25,	--
Cellars and vaults, mode of constructing.	Henry Hallock, New-York	-	-	-	-	Oct. 24,	--
Corn, machine for shelling.	Elijah Russel, Greensboro' N. C.	-	-	-	-	Oct. 24,	--
Cannon, method of discharging.	Henry Whitcomb, Adams, New-York	-	-	-	-	Oct. 25,	--
Currying knife, constructing and grinding the.	Samuel Brooks, New-York	-	-	-	-	Nov. 13,	--
Cabbage machine for cutting.	F. Berkemeger and J. Dengler, Greenwick, Penn.	-	-	-	-	Nov. 14,	--
Corn, machine for husking.	Howlet Bushnell, Norwich Conn.	-	-	-	-	Nov. 14,	--
Cotton gin, mode of propelling the.	Peter Knox, Augusta Ga.	-	-	-	-	Dec. 7,	--
Coal sifter, improvement in the revolving.	Thomas Borbidge and Anson Martin, Kingston township, Penn.	-	-	-	-	Dec. 30,	--
Cement, water proof.	Simeon Guilford, Washington, D. C.	-	-	-	-	Jan. 16,	1827
Corn, machine for shelling.	Edward Newman, Guilford county, North-Carolina	-	-	-	-	Feb. 7,	--
Chair, improvement in the.	Jacob Daley, Baltimore	-	-	-	-	Feb. 9,	--
Churn, improvement in the rocking.	John G. Philip, Kinderhook	-	-	-	-	Feb. 15,	--
Cotton, improvement in the mode of packing.	William C. Thomas, Richmond county, N. C.	-	-	-	-	Feb. 15,	--
Copperas, in the method of making.	Isaac Tyson, Baltimore,	-	-	-	-	Feb. 15,	--



Cotton, machine for pressing.	Philemon White, Chatham county, N. Car.	-	-	Feb. 19,	1827
Cutting garments, mode of.	James G. Wilson, N. York	-	-	Feb. 28,	--
Cutting hard substances, machine for.	John H. Hall, Harper's Ferry, Virginia	-	-	Mar. 7,	--
Chimneys, wheel dampers for.	James Reiley and John Flanagan, Waynesburg, Penn.	-	-	Mar. 10,	--
Corn sheller, longitudinal.	George E. Waring, Poundridge, New-York	-	-	Mar. 16,	--
Churn, improvement in the.	Samuel L. Bagley, Hillsdale, New-York	-	-	Mar. 21,	--
Cotton roben, prepared for spinning.	Gilbert Brewster, Poughkeepsie, New-York	-	-	Mar. 28,	--
Cider mill, improvement in the.	Constant H. Wicks, Paris, New-York	-	-	April 9,	--
Clay tubes, improvement in making.	John R. Rowel and Henry Wise, Fredericktown, Penn.	-	-	May 10,	--
Canals, safety gate for.	Jacob Van-Dorn, Clen, Montgomery county, New-York	-	-	May 14,	--
Cock for hydrants, improvement in the valve.	Benjamin Stancliffe, Philadelphia	-	-	May 15,	--
Cotton press, improvement in the.	Richard Jarnigan, Waynesborough, North-Carolina	-	-	May 15,	--
Cleaning Machine, for wheat, rye, &c.	John Tyler, Claremont, New-Hampshire	-	-	May 18,	--
Carts for removing earth, improvement in.	Jeremiah Price, Lockport, New-York	-	-	May 18,	--
Churn, improvement in the.	Levi Rosenkrans, Urbanna, N. Y.	-	-	May 19,	--
Corn, machine for crushing with the cob.	S. K. Gauntt, Greenville, Tennessee	-	-	May 25,	--

## D

Distilling of liquor.	Aaron Putnam, Medford, Mass.	-	-	Jan. 29,	1791
Distilling.	Nathan Reed, Salem, Mass.	-	-	Aug. 29,	--
Docks or harbors, machine for cleaning or deepening.	P. Zacharie, Baltimore, Md.	-	-	Nov. 24,	--
Distilling spiritous liquor.	Joseph Simpson, Richmond, Va.	-	-	Mar. 4,	1794
Duck sail weaving.	James Davenport, New-Jersey	-	-	Feb. 14,	--
Docks and harbors, a machine for cleaning.	Stephen Colver,	-	-	Dec. 14,	1798
Dough and paste, breaking.	Daniel Pettibone	-	-	Nov. 16,	1796
Distilling. See <i>Evaporation</i> .					
Docks, machine for cleaning out.	John Greenleaf	-	-	July 13,	1802
Dry docks, improvement in erecting.	John Gardiner	-	-	Dec. 3,	--
Distilling spirits, improvement in.	Daniel Isley	-	-	May 14,	1803
Distillation by steam, in wooden or other stills.	E. and Thomas West, Fayetteville co. Ken.	-	-	July 8,	--
Double draught fire place.	Talmage Ross	-	-	Jan. 23,	1804
Double steam bath still.	John James Giraud	-	-	April 17,	--
Double crank. See <i>Fulling Mill</i> .					
Dough, machine for breaking.	Laban Folgfir, Hingham, Mass.	-	-	Nov. 1,	--
Distillation. See <i>Boiling</i> .					
Dye woods, machine for grinding, sawing.	John Matthews, Philadelphia	-	-	Aug. 13	1805
Distilling apparatus.	A. Heistand, Yorktown, Penn.	-	-	Nov. 27	--
Dough, machine for making.	Geo. Richards, Stonington, Conn.	-	-	Feb. 14,	1806
Dressing flax.	Elisha Mack	-	-	Mar. 21,	--
Diving machines.	Richard Tripe, Dover, New Hampshire	-	-	April 1,	--
Dye woods. See <i>Grinding, &amp;c.</i>					
Double forcing pumps.	Charles Colver, Champlain, N. Y.	-	-	April 1,	1807



Distilling, apparatus for.	A. Weaver, Adams co. Penn.	-	April 23,	1807
Distilling or boiling water.	Eli Barnum and Ben. Brooks, New Marlboro' Mass.	-	Mar. 21,	1808
Door hinge.	See <i>Friction Roller</i> .			
Double lever press.	Caleb Johnson, New Glasgow, Va.	-	June 3,	--
Dye woods, machine for rasping.	Jesse Reed, Boston	-	June 3,	--
Distilling.	E. Barnum and B. Brooks, New Marlboro', Mass.	-	July 13,	--
Double.	See <i>Boiler</i> .			
Dipping.	See <i>Candles</i> .			
Distilling apparatus.	A. Bouchrie, Philadelphia	-	Jan. 3,	1809
Dying of silk goods, machine for	W. Barret	-	June 27,	--
Dye wood, machine for cutting.	E. Hubbell, Middlebury, Vert.	-	June 27,	--
Delaware Spinner.	J. Alricks, Wilmington, Del.	-	Oct. 11,	--
Distilling apparatus.	W. Chamberlain, Vert.	-	Mar. 17,	1810
Dough, machine for breaking.	C. Barnard, Nantucket, Mass.	-	April 17,	--
Distilling by steam.	John Morris Bennet, Middletown, Conn.	-	May 1,	--
Distilling apparatus.	A. Tobey, Alford, Mass.	-	June 21,	--
Drying grain of all kinds.	B. Parry, Bucks co. Penn.	-	July 7,	--
Distilling.	M. Garden, Staunton, Va.	-	July 13,	--
Draining plough.	Stephen Hall, Boston	-	July 13,	--
Dye woods, machine for cutting.	I. Richards, 3d, Norfolk, Connecticut	-	Aug. 13,	--
Domestic spinner.	E. Heavrick, Albany, N. Y.	-	Aug. 17,	--
Diving dress.	Chauncey Hall, Conn.	-	Dec. 24,	--
Drying fuel for glass furnaces.	James Lee, Philadelphia	-	Jan. 14,	1811
Distilling essential oils.	D. Jewet, Pittsfield Mass.	-	Jan. 24,	--
Distilling.	Jacob Miller, Lancaster, Penn.	-	Mar. 2,	--
Distilleries and kitchens.	William Gamble, Washington, D. C.	-	April 18,	--
Dye woods, machine for rasping.	Samuel Stone, Enosburg, Va.	-	May 3,	--
Distilling.	Andrew Dunlap, Boston	-	May 3,	--
Distilling.	J. James Giraud, Baltimore	-	June 14,	--
Distilling and refining apparatus.	Jacob Sherer and Abraham Killan, Lancaster, Penn.	-	June 17,	--
Drying house for drying fruit.	S. Strong, Wilkestownship, Ohio	-	Sep. 2,	--
Distilling at one operation.	Jonathan Shaw, Palmer, Mass.	-	Nov. 13,	--
Distilling.	Lewis Lescesne, Belleville, N. J.	-	Dec. 4,	--
Dock, floating dry.	Samuel Rose, N. Y.	-	June 15,	--
Distilling.	Omri Carrier, Enfield, Conn.	-	Nov. 2,	--
Distilling.	Omri Carrier, Enfield Conn.	-	Jan. 18,	1813
Distilling.	John Bates, Hartford, Conn.	-	Jan. 26,	--
Distilling and boiling liquors.	J. Morris, New Haven, Conn.	-	Mar. 3,	--
Drawing wire, machine for.	John J. Staples, Flushing, N. Y.	-	May 10,	--
Dies, circular, improvement on	Perkins. Jacob Perkins and Geo. Murray, Philadelphia	-	June 25,	--
Distilling, a cylinder heater for.	C. Jenks and Abiel Perse, East Windsor, Conn.	-	July 12,	--
Die work, instead of etching.	A. Brewster, Frankfort, Penn.	-	July 15,	--
Distilling, heating the mash for.	T. Balden, Hartford, Conn.	-	Aug. 18,	--
Distillation, heating water for.	A. Anderson, Philadelphia	-	Oct. 27,	--
Distilling apparatus.	I. Hoffman, Shawangunk, N. Y.	-	Dec. 31,	--
Dye woods, for rasping and grinding.	Joseph Broad, Springfield Mass.	-	Mar. 1,	1814
Distillation.	John W. Alder, Pennsborough, Penn.	-	April 29,	--
Distilling.	Wm. M. B. Wollias and H. P. Barlow, Oneida co. New-York	-	May 6,	--
Dye stuffs, cutting.	Aaron Broad, Litchfield, Conn.	-	June 9,	--
Dies for metals.	Ben. Mead and Giles Richards, Boston	-	July 2,	--
Distilling from grain, &c.	Simon Shurtliff, Oneida co. N. Y.	-	July 5,	--
Distilling by steam.	David Dewy, Sullivan, N. Y.	-	July 5,	--
Dying silks.	T. Harrison and Robert Pierpont, N. Y.	-	Oct. 18,	--

Distilling. Naphtali Hart, Easton, Penn.	-	-	-	Oct. 29,	1814
Distilling by steam, &c. Enos Brown, Oneida co. N. Y.	-	-	-	Jan. 23,	1815
Distillation, cooling mash for. Thos. Whitemell, Scotland Neck, N. C.	-	-	-	Sep. 2,	--
Distilling turpentine, tar, &c. Wm. Adam Rapp N. Y.	-	-	-	Dec. 4,	--
Distillation by steam. Hezekiah Kelly, Brooklyn, N. Y.	-	-	-	Feb. 16,	1816
Dye woods, saw mill for. John Elder, Hamilton, Mass.	-	-	-	Feb. 16,	--
Dye woods, saw mill for. John Elder, Hamilton Mass.	-	-	-	April 11,	--
Distilling and rectifying, &c. John Whips, Jefferson co. Ken.	-	-	-	April 22,	--
Danger scape. Wm. Start, Greensborough, Md.	-	-	-	May 3,	--
Distilling. Norman Goodsell, Paris, N. Y.	-	-	-	June 13,	--
Distilling. Wm. Richardson, Kingston, N. Y.	-	-	-	June 15,	--
Distilling. E. Talmage, Lancaster, Ken.	-	-	-	July 8,	--
Distilling. Amos Blood, Boston	-	-	-	July 16,	--
Double stave and parallel jointer. J. S. Keen, Phil.	-	-	-	Oct. 1,	--
Docks projecting. Moses Rogers, N. Y.	-	-	-	Jan. 7,	--
Dye woods, machine for rasping. Beriah Swift, Washington, Duchess co. N. Y.	-	-	-	Feb. 1,	1817
Dry docks, rotary. Joseph Webb, N. Y.	-	-	-	May 3.	--
Dying and finishing silk goods. A. Stearns and W. Barret, Cambridge, Mass.	-	-	-	Jan. 30,	1818
Drill for potatoes. George Harper, Jenkington, Penn.	-	-	-	Mar. 23,	--
Dogs, a new power. A. Tienan, N. Y.	-	-	-	April 27,	--
Dying and finishing silk. A. Stearns and W. Barret, Boston,	-	-	-	Sep. 8,	--
Distilling, improvement in. Pierce Woods, Frederick co. Md.	-	-	-	Sep. 29,	--
Distilling, improvement in. Charles Merot, Phil.	-	-	-	Nov. 5,	--
Dry dock, floating. Albert Brux, Augusta, Ga.	-	-	-	Nov. 6,	--
Double Speeder. Wm. Hines, Coventry. R. I.	-	-	-	Feb. 6,	--
Dying, tanning, &c. chesnut used in. W. Sheldon, Springfield, Hampton co. Mass.	-	-	-	Feb. 26,	--
Distilling, improvement in. James Caze, N. Y.	-	-	-	Mar. 18,	--
Double speeder for roping cotton. Paul Moody, Boston	-	-	-	April 3,	--
Distilling, apparatus for. Henry field, Camillus, N. Y.	-	-	-	June 17,	--
Domestic spinner. John Brown, Providence, R. I.	-	-	-	July 22,	--
Diving drum. Jasper Johnson, Albany, N. Y.	-	-	-	July 31,	--
Distilling, improvement in the apparatus for. Frederick Kalisky, Philadelphia	-	-	-	Dec. 14,	1819
Distilling, improvement in. Richard Wilcox, N. Y.	-	-	-	April 20,	1820
Diving, mode of. William Brookfield, Detroit, Mich. Ter.	-	-	-	July 17,	--
Draw grinding machine. Thomas Dakin, Harpers-Ferry, Va.	-	-	-	July 28,	--
Drying cloth by steam. Rolan Duncanright, Medway, Mass.	-	-	-	Aug. 30,	--
Double speeder, improvement on No. 1. Jon. Fisk, Med. Mass.	-	-	-	Dec. 7,	--
Do. No. 2. do. do.	-	-	-	Dec. 7,	--
Do. No. 3. do. do.	-	-	-	Dec. 8,	--
Do. No. 4. do. do.	-	-	-	Dec. 8,	--
Do. No. 5. do, do.	-	-	-	Dec, 8,	--
Double speeder, combination of improvements on the. Jonathan Fisk, Medway, Mass.	-	-	-	Dec. 9,	--
Dyewoods, machine for cutting. Elijah Converse, Dayton, Ohio	-	-	-	Jan. 10,	1821
Double speeder for roping cotton. Paul Moody, Boston	-	-	-	Jan. 19,	--
Distilling, improvement in. David Cutter, Butler co. Ohio	-	-	-	Feb. 20,	--
Dry scouring clothes. Thomas L. Jennings, New-York	-	-	-	Mar. 3,	--
Distilling spirits, improvement in. Robert Blaikie, N. Y.	-	-	-	April 27,	--
Duck or canvass sail, manufacturing. Josiah Chapman, Frankfort, Penn.	-	-	-	July 9,	--
Distilling, improvement in the still for. Ballazar J. Kallenbach, Philadelphia	-	-	-	Aug. 6,	--
Dry docks, improvement in. Ralph Bulkley, N. Y.	-	-	-	Aug. 28,	--
Distilling, improvement in the apparatus for. Henry F. Fisher, Philadelphia	-	-	-	Sep. 12,	--

Dry docks, improvement in floating.	Edward Covenhoven, Greenburgh, N. J.	-	-	Oct. 30,	1821
Drawers, improvement in making.	Henry Brewer, N. Y.	-	-	Feb. 28,	1822
Distilling, improvement in.	Philip Greiner, Brandywine Town- ship, Penn.	-	-	April 17,	--
Dough, machine for making.	Josiah S. Fisher and Sylvester W. Talbot, Norfolk, Mass.	-	-	April 25,	--
Drill, Cotton thinner and plough.	Wm. Willis, Edgefield Dis- trict, S. S.	-	-	May 17,	--
Distilling, improvement in the apparatus for.	Uriah Swetland, Kingston, Penn.	-	-	Nov. 18,	--
Distilling by steam, improvement in.	Elias Gilhausen, Halifax township, Penn.	-	-	Jan. 14,	1823
Double Speeder, improvement in the.	Az. Arnold, North Pro- vidence, R. I.	-	-	Jan. 21,	--
Distilling, improvement in.	Malcolm M'Donald, Fayette, Penn.	-	-	Feb. 19,	--
Distilling, improvement in.	Increase Carpenter and J. Roe, New-York	-	-	Jan. 29,	1824
Dresses, mode of finishing.	James R. Williams, Baltimore	-	-	Mar. 3,	--
Diving suit, improvement in the.	W. C. Davison and D. Clark, Pittsfield, N. Y.	-	-	July 26,	--
Distilling, machinery used in.	Daniel Jackson, Peru, N. Y.	-	-	Dec. 28,	--
Deck lights for ships.	George Gray, Lynn, Mass.	-	-	Mar. 26,	1825
Dowelling bit, improvement in the.	John Thomas, Washing- ton, D. C.	-	-	April 2,	--
Dry docks, improvement in.	Christian Berg, N. Y.	-	-	April 9,	--
Distilling spirits, improvement in the mode.	William Avery, Pomfrey, N. Y.	-	-	May 13,	--
Dry docks, improvement in the floating.	Wm. R. Loweree, New-York	-	-	June 23,	--
Dock, marine elevating, improvement in apparatus.	E. Buck and Henry Crehore, Boston	-	-	July 11,	--
Do.	Robert Gerry and Abel Bayard, Boston, Mass.	-	-	July 11,	--
Divital invention.	C. S. Rafinesque, Lexington, Ken.	-	-	Aug. 23,	--
Delineator, improvement in the.	Jonas Weeks, N. Y.	-	-	Sep. 9,	--
Dye woods, machine for cutting.	Ephraim Morris, Bloomfield, New-Jersey	-	-	Sep. 27,	--
Distilling spirits, improvement in the method.	Abm. Whitson, Staunton, Va.	-	-	Sep. 28,	--
Decay of vessels, mode of preventing.	Anthony Plantou, Ph'a.	-	-	Oct. 1,	--
Distilling, in the apparatus for.	John C. Douglas, Troy, N. Y.	-	-	Nov. 26,	--
Doors and sashes, mode of preventing from being too tight.	Daniel Fraser, N. Y.	-	-	Dec. 12,	--
Dry docks.	Levi H. Clarke and L. M. Wiss, N. Y.	-	-	Dec. 22,	--
Dock, ship rail way.	John Thomas, N. Y.	-	-	Feb. 24,	1826
Doors, making rack bolts for.	J. Brown and George W. Robin- son, Providence, R. I.	-	-	Mar. 24,	--
Dry docks.	Alonso Place, N. Y.	-	-	April 1,	--
Distilling spirits from cider and grain.	Samuel Harwood, 3d, Braintree, N. Y.	-	-	April 15,	--
Dress, boys'.	Charles Herwick, N. Y.	-	-	May 16,	--
Dock, buoyant Maximin Isnard, N. Y.	-	-	-	June 22,	--
Dock, carrying and lifting trunk.	James Barron, Norfolk, Va.	-	-	Aug. 2,	--
Dock, floating dry, improvement in the.	John Floyd, Kittery, Maine	-	-	Aug. 19,	--
Dying the hair on skins.	Joseph Herring, N. Y.	-	-	Nov. 19,	--
Dairy cooler, for milk, cream, &c.	David Witmer, Paradise, Pennsylvania	-	-	Dec. 7,	--
Distillation, improvement in.	Normon and Anson Wolcott, Bloomfield, N. Y.	-	-	Dec. 8,	--

## E

Engine, improvement in fire.	Jesse Kersey	- - -	April 13,	1797
Engine, a capstan fire.	Sam Eli Hamlin	- - -	Aug. 30,	1799
Evaporation, improvement in.	T. Bedwell and B. Henfrey,			
Philadelphia	- - -		Feb. 12,	1801
Evaporation, mode of increasing for the purpose of distilling.				
B. Henfrey, Lancaster co. Penn.	- - -		Mar. 2,	--
Engraving, improvement in the art of.	J. Hutton and G. Fair-			
man, Albany, N. Y.	- - -		Jan. 8,	1802
Essence of bark for dying, mode of extracting.	Sam. Down-			
ing, Trenton, N. J.	- - -		April 19,	--
Economical house, and ship steam kitchens.	N. Bourean, Alex-			
andria, D. C,	- - -		Aug. 30,	--
Evaporating furnace.	John Richardson	- - -	Sep. 13,	--
Evaporating furnace, improvement in.	J. Richardson, Athens,			
Pennsylvania	- - -		April 4,	1803
Extinguishing fires.	See <i>fires</i> .			
Earth, machine for raising and removing.	J. Platt, Albany,			
New-York	- - -		May 4,	1805
Earth, machine for removing, &c.	Jacob Welsh, Boston	- - -	May 6,	--
Essence of tansy.	Israel Newton, Norwich, Va.	- - -	Feb. 28,	1806
Evaporation.	Thomas Arnold	- - -	Mar. 5,	--
Egyptian lock.	A. Ogier, Stansbury, N. Y.	- - -	Feb. 11,	1807
Economical furnace, or stove.	Joseph Poudrell, N. Y.	- - -	April 6,	1808
Elastic chair.	Sam. Gragg, Boston	- - -	Aug. 31,	--
Elastic trace and brace.	Ben. Giddins, Baltimore	- - -	Dec. 10,	--
Elevator, water.	John Henrick, jr. Albany	- - -	Feb. 1,	1810
Explosion.	See <i>Combustion</i> .			
Expanding and folding wheel.	H. Steward, Clark co. Indiana	- - -	Jan. 24,	1811
Evaporation, making salts by.	B. Wildborn, Washington, N. Y.	- - -	Feb. 4,	--
Elevator for the use of the sick.	J. Elliot, Newbury, Mass.	- - -	Feb. 15,	--
Electrophorus.	David F. Launy, Philadelphia	- - -	Aug. 23,	--
Elixir, restorative.	H. Frink, Northampton, Mass.	- - -	Jan. 6,	1812
Elevator and hopper boy.	Sam. Walgemoore, Washington,			
Dist. Col.	- - -		Feb. 22,	--
Elevating grain, &c.	Jeremiah Bailey, Kennet Square, Penn.	- - -	June 19,	--
Edge tools, steel for.	Elisha Gordan, Philadelphia	- - -	June 26,	--
Extracts from barks, obtaining.	Wm. Greene Jessender, Wal-			
pole, N. H.	- - -		Oct. 20,	--
Elevator for raising fluids, &c.	R. Christy, Jefferson co. Va.	- - -	Nov. 21,	--
Engine, water.	Joel M. Dupery, Woodford, Ken.	- - -	April 13,	1814
Evaporator for salt water.	Wm. M. Hawkins, King and Queen's			
county, Va.	- - -		April 23,	--
Etching the end pieces of bank notes.	Henry S. Tanner, Phil.	- - -	July 1,	1815
Evaporate and steam engine.	David Heath, Phil.	- - -	July 26,	1816
Electrical apparatus.	T. Brown, Albany, N. Y.	- - -	Dec. 20,	--
Elixir of life.	Julius Rucco, Baltimore	- - -	Mar. 29,	1817
Excavating plough	James Richmond, Hudson, N. Y.	- - -	June 28,	--
Elastic clamp.	Thos. Rowel Hoyt, Goffstown, N. H.	- - -	Dec. 6,	--
Emery making.	Wm. Garratt, New-London, Otsego. county,			
New-York	- - -		Feb. 27,	1819
Engines for mills on brooks.	Jacob Toller, Phil.	- - -	July 13,	--
Earth in making roads, &c. apparatus for removing.	I. L. Skin-			
ner and S. F. Hooker, Sackett's Harbor, N. Y.	- - -		Mar. 23,	1820
Elliptical log-wheels.	Wm. B. Copley, Whitestown, N. Y.	- - -	May, 9,	1821
Elastic floor for propelling boats.	Oliver Phelps, Lansingburgh,			
New-York	- - -		Nov. 17,	--
Engraving, making metallic plates for.	David H. Mason, Phil.	- - -	May 17,	1822

Elevators, for raising water.	Social Rolph, Albany, N. Y.	-	Nov. 16,	1822
Engine, improvement in the rotary steam.	Dudley L. Farnam, New-York	-	Feb. 19,	1823
Engine, improvement in the steam.	Amos Thayer, jr N. Y.	-	Mar. 6,	--
Evaporating liquids.	Abner Vansant, Jefferson county, Mi.	-	Sep. 29,	1823
Extender.	Asa Bisbee, N. Yarmouth, Maine	-	Jan. 27,	1824
Earth, stone, &c, removing.	Orange H. Dibble, Niagara county, N. Y.	-	Feb. 20,	--
Engine, improvement in the atmospheric.	Eb. and Js. Prentiss, Baltimore	-	June 22,	1824
Earth, mode of loading and unloading.	John Owings, Balt.	-	Aug. 27,	--
Extending and multiplying power.	Wm. Kendall, jr. Water- ville, Maine	-	Jan. 16,	1826
Engine, gas or vapour.	Samuel Morey, Oxford, New-Hamp- shire	-	April 1,	--
Earth, machine for removing.	Peirson Reading, Trenton, New- Jersey	-	June 1,	1826
Do.	Cyrus Barnard, New Lynn township, Penn.	-	July 14,	--
Evaporating liquids.	Charles Sholes, Phelps, N. Y.	-	July 26,	--
Elevating liquors to upper rooms.	John A. Smith, N. London, Connecticut	-	Aug. 7,	--
Engine for throwing water.	G. Shalk and William Tintoff, Lebanon, Penn.	-	Sep. 23,	--

## F

Fire, to rescue from.	<i>See Construction.</i>			
Fire, to stop the progress of.	B. Taylor, N. Y.	-	Mar. 23,	1794
Fish, improvement in the manner of catching.	J. Ellicot, Penn.	-	Mar. 25,	1795
Flax and hemp, spinning of.	<i>See hemp and flax.</i>			
Flour and meal, improvement in manufacturing of.	Oliver Evans, Phil.	-	Dec. 18,	1796
Forgeries, to prevent.	<i>See Punches.</i>			
Fire engine.	<i>See Engine.</i>			
Fire place, improvement in.	C. W. Peal	-	Nov. 16,	1797
Flax and hemp.	<i>See Mill.</i>			
Force obtained by water.	S. Mercy, Alford, N. H.	-	Nov. 17,	1800
Flax, machine for breaking.	John Cannon	-	Jan. 17,	1801
Flax breaking, machine for.	John Cannon, Wilmington, Del.	-	Jan. 17,	--
Forcing pump.	John Evelth, Providence, R. I.	-	June 13,	--
Fish, improved mode of carrying in warm weather.	N. Robins, Burlington, N. J.	-	Mar. 11,	1802
Flat roofed houses and balconies, improvement in.	Henry John- son, Baltimore	-	May 1,	--
Fire stop, improvement in the.	Elisha Putman	-	Aug. 24,	--
Finding salt water and metals.	V. Cook, Kentucky.	-	Nov. 1,	--
Fire engine, improvement in.	Stephen Stewart	-	Dec. 6,	--
Fire place.	<i>See Double draught-</i>			
Fastenings or springs.	<i>See Window.</i>			
Fires, method of extinguishing in houses.	Sam. F. Lord, jr.	-	Mar. 10,	1803
Flax seed, machine for cleaning.	Paul Gottry	-	April 24,	1804
Fan.	<i>See Columbian.</i>			
Fulling mill, improvement in.	called the double crank.	Levi Osborn	July 12,	--
Forcing pump to raise water.	Aaron Taylor	-	Oct. 4,	--
Filtering machine.	Dan. M. Mullen and Thos. M'Curdy, Phil.	-	Nov. 16,	--
Fire, composition to prevent houses from catching.	D. Stodder	-	Nov. 16,	--
Fire place.	<i>See Close.</i>			
Flour mill.	Samuel Church, Amherst, Mass.	-	May 4,	1805
Fanning mill.	<i>See Smut, &amp;c.</i>			



Fluids, machine for raising. D. Tomlinson, Brookfield, Conn.	May 27, 1805
Flax. See <i>Dressing</i> .	
Fulling mill and washing machine. John Kennion, Dutchess co. New York	March 26, 1806
Filtering impure water and wine. &c. Solomon M'Combs, Joseph Smith, and Ben. D. Galpin, Baltimore	May 24, --
Fire place with a flat funnel. Abraham Fisber	Feb 17, 1807
Fire brick, mode of making. Eben. Jenks, Canaan, Conn.	Feb 17, --
Fire places and stoves, improvement in. A. Pollock, Boston	April 23, --
Fire engine, improvement in. Jacob Smith, jun. New York	May 20, --
Filtering pot. Michael Freytag, Philadelphia	July 1, --
Flour and meal, mode of manufacturing. O. Evans, Philadelphia	Jan 22, 1806
Fire places, or open stoves, improvement in. J. F. Gould, Newburyport, Massachusetts	Feb 1, --
Fanning mill for grain, &c. Samuel Dodge, Cleveland, Ohio	Feb 9, --
Forcing pump, with double action. E. Cady, jun. Chatham, N. Y.	March 9, --
Fire places, improvement in. G. Gridley, Newburyport Mass.	March 14, --
Fanning mill for grain or clover seed, &c. O. Barrett, jun. Sandy Hill, New York	March 23, --
Furnace or stove. See <i>Economical</i> .	
Friction, mode of lessening in carriages. Robert Kilborn, Great Barrington, Massachusetts	April 12 --
Faucets for drawing liquors. Ira Ives, Bristol, Conn.	April 14, --
Friction roller, door hinge. John Bailey, jun. Plymouth, Mass.	May 16, --
Floating dry dock. William Rhodes, New York	May 16, --
Funnels for fluids. Philip Apple, Philadelphia	July 13, --
Fanning and winnowing mill. Ben. Atwell, Burlington, N. Y.	Sept 19, --
Forcing pump. See <i>Pneumatic</i> .	
Fastening window shutters. J. Blanchard, New York	Jan 14, --
Flax and hemp, machine for dressing. Richard S. Chappel Pawlet, Rutland county, New York	Jan 18, 1809
Flax and hemp machine. Eli F. Hill. Onandago, New York	Feb 11, --
Fur cutting machine. E. Cutters, Battleboro', Virginia	March 1, --
Finishing silks. See <i>Silks</i> .	
Frame for finishing. See <i>Dyeing</i> .	
Flax dressing machine. J. Barlow, Granville, Massachusetts	Aug 23, --
Furrowing, machine for. M. and I. Nichols, Otsego, N. Y.	Oct 12, --
Flexible platform for giving motion. John Johnston, jun. Charleston, South Carolina	Nov 22, --
Fishing seine. P. Croff, Little York, Pennsylvania	Dec 16, --
Felloes, machine for sawing. W. F. Sheffield, New York	Dec 20, 1809
Floating mill and silent fisher. E. Ford, Charleston, S. C.	Dec 20, --
Funnel with a vent. D. Clarke, West Stockbridge, Mass.	April 9, 1810
Flax machine. Oliver Wilde, Canaan, New York	April 16, --
Fur cutting machine. Martin Clark, New York	April 21, --
Felloes, machine for dressing. S. Church, Amherst, Mass.	April 25, --
Fanning mill. Sam. Snedeker, Johnstown, New York	April 27, --
Fur cutting machine. Eleazer Sprague, Danbury, Conn.	May 1, --
Fire places. Eben Whiting, Great Barrington, Massachusetts	June 18, --
Fire places. do do do	June 27, --
Flax and hemp, machine for breaking. N. P. Robinson, Fleming county, Kentucky	Aug 31, --
Forcing pump for fire engines. Eli Smith, Palmer, Mass.	Nov 6, --
Fire places grated. Aug. Brown, Fredericktown, Maryland	Nov 24, --
Frictionless cylinders. John P. Swain, Roxbury, Massachusetts	Jan 24, 1811
Felloes for wheels. J. Goulding, Leicester, Massachusetts	Feb 28, --
Fire cavern. Abraham Quincy, Boston	March 20, --
Fire places. Peter Stenberg, Montgomery, New York	March 28, --

Floating engine for supplying ships.	J. P. Randolph, N. Y.	April 25, --
Flax and hemp break.	E. Rumsay, Christian county, Ken.	April 25, --
Flax and hemp break.	J. C. Johnson, Fayette county, Ken.	May 16, --
Fire arms.	W. Thornton and J. H. Hall, Washington	May 21, --
Fur cutting machine.	J. Whetherle, Boston	May 28, --
Fanning mill.	J. W. Jessup, Fredericktown, Maryland	June 18, --
Flax and hemp, break for.	Robert Miller, Lexington, Ken.	July 13, --
Flax and hemp, break for.	Jacob A Dana, Cassanovia, N. Y.	July 23, --
Fish.	See <i>Wear</i> .	
Files, machine for cutting.	E. Gehbe, North Hampton co. Penn.	Oct 10, --
Flax and hemp, breaking.	William Harper, Richmond, Va.	Oct 15, --
Flax and hemp, breaking.	A Tanner, Trumbull county, Ohio	Oct 24, --
Fire places, improvement in his.	Peter Sternberg, Montgomery county, New York	Oct 28, --
Flyers, for spinning cotton.	A. Watton Keene, N. H.	Jan 6, 1812
Febrifuge.	A. Johnson, North Cumberland, Pennsylvania	Jan 11, --
Flax and hemp for roving &c.	William Griffen, New York	Jan 11, --
Flax and hemp, substitute for.	C. Whitlow, New York	Jan 11, --
Fanning mill.	Thomas S. Barnum, Sharon, Connecticut	Jan 15, --
Files, machine for cutting.	M. Burke, Belknap, Brimfield, Mass.	Jan 16, --
Flour manufacturing.	J. R. Madison, New York	Jan 27, --
Furnace for heating ovens.	A. H. Quincy, Boston	Feb 17, --
Fish glues.	See <i>Icthyocolla</i> .	
Flax and hemp preparing	John Owings, Baltimore	March 5, --
Flax and Hemp.	See <i>Spinning</i> .	
Fire engine.	See <i>Pump</i> .	
Forts.	Edward Clark, Philadelphia	April 2, --
Files cutting.	C. Hesser and A. Paxton, Philadelphia	April 11, --
Files cutting.	Levi and David Anderson, Philadelphia	April 20, --
Fire places, fluted back.	Eli Mix, New Haven, Connecticut	April 25, --
Faucet, plugged.	William Jones, New York	May 13, --
Fair dealer, or the charta lusoriae.	Robert Bailey, Washington	May 15, --
Fur skins, machine for cutting.	Ira Ives, Bristol, Connecticut	May 19, --
Foot stove with stone heaters.	A. H. Quincy, Boston	June 13, --
Files, machine for cutting.	M. Burk, Belknap, Worcester, Md.	June 14, --
Flax dressing machine.	J. Hawes, Hudson, New York	June 19, --
Files, rasps, &c. machine for cutting.	S. Gilman White, Haverhill, Massachusetts	July 11, --
Fire engines.	I. Hathaway, Walton, New York	Aug 6, --
Fire engines.	A. Pollock and J. Perkins, Boston	Aug 6, --
Fumiductors.	W. A. Baron, New York	Sept 10, --
Flyer for spinaing cotton.	M. Newton, Fitchburgh, Mass.	Sept 23, --
Feather cloth.	J. and B. Sizer, New London, Connecticut	Oct 21, --
Fuel, saving of.	Zina Phinney, Cairo, New York	Oct 31, 1812
Files, machine for cutting.	Wm. T. James, Greenwich, N. Y.	Nov 19, --
Flyer for spinning.	Nath. Giles, Fitchbury, Massachusetts	Nov 19, --
Felting, machine for making of.	O. Barrett, jun. Troy, N. Y.	Dec 8, --
Fire engine.	John Achman, Washington, D. C.	Dec 30, --
Fire place and chimney, &c.	Sam. Morey, Philadelphia	Jan 18, 1813
Fur cutting machine.	Ephraim Cutter, Walpole, N. H.	Feb 4, --
Fever medicine.	Samuel Thompson, Surry, New Hampshire	March 2, --
Fire places.	David F. Launy, Philadelphia	March 18, --
Fire engines.	Jacob Perkins, Newburyport, Massachusetts	March 23, --
Furnace for casting brass, &c. portable.	J. Share, Baltimore	March 30, --
Flax and hemp breaking.	Ira Millard, Kent, Connecticut	May 6, --
Flax and hemp machine.	Francis Hill, Tennessee	Oct 7, --
Flood gate.	Benjamin S. Hort, Georgetown, South Carolina	Oct 9, --
Fire places.	John C. Brush, Washington	Jan 28, 1814
Files cutting.	C. and D. Platt, Shawn, Connecticut	March 7, --

Furnace for melting ores, &c.	T. Gregg, Connellsville, Penn.	March 16, --
Furnace for melting ores.	T. and J. Barnhurst and William Walker, Philadelphia	May 14, --
Files cutting.	Silas Hawes, Bennington, Virginia	May 11, --
Fire proof ceiling.	Benjamin J. Harris, Richmond, Va.	May 17, --
Flax and hemp dressing.	G. H. Ricketts and John Kinney, jun. Mount Pleasant, New Jersey	July 12, --
Flax and hemp dressing.	do do	Oct 24, --
Fanning mills.	Samuel Fitch, Homer, New York	Oct 29, --
Flax and hemp, machine for spinning.	J. Francis, Chappins, New York	Nov 8, --
Flax and hemp, machine for preparing.	P. Antrim, Philadelphia	Nov 25, --
Fanning mill.	Joel Soper, Windsor, Connecticut	Dec 3, --
Fishing vessel and nets.	James Wills, jun. Galloway, N. J.	Dec 17, --
Fur cutting machine.	William Jackson, Burlington, N. J.	Feb 2, 1815
Fur pulling machine.	do do	Feb 2, --
Furnaces and fire places.	Peter Tomlinson, Derby, Conn.	March 7, --
Floating battery.	George Stiles, Baltimore	April 4, --
Files, machine for cutting.	John Hatch, Dedham, Mass.	May 16, --
Fulling mill.	Asa Danielson, Otsego, New York	May 16, --
Fire places, construction of.	E. Bartholomew and W. Church, Boston	Aug 18, --
Fort stove.	Allen Greely, Oxford, Massachusetts	Dec 23, --
Filtering water.	Joseph Du Commun, New York	Feb 10, 1816
Fan for cleaning wheat.	William Adams, Virginia	March 1, --
Franklin stove.	James Wilson, Poughkeepsie, New York	March 9, --
Fan for wheat.	S. Weaver, Frederick county, Maryland	March 11, --
Fire places.	E. Rand, Hudson, New York	March 27, --
Fur cutting machine.	D. Beard, Guilford, North Carolina	April 30, --
Flax and hemp, machine for cutting.	C. and W. A. Benton, Armenia, New York	May 23, --
Fanning mill for cleaning wheat.	B. D. Beecher, New Haven, Connecticut	May 30, --
Flax and hemp breaking.	T. Pullen, Lexington, Kentucky	June 20, --
Franklin stove, improvement in the.	J. T. Van Sicker, Poughkeepsie, New York	July 3, --
Flax and hemp prepared.	W. Hickingbottom, New York	July 12, --
Floating wheel.	J. Owings, Baltimore	Sept 9, --
Floating valve wheel.	I. J. Richardson, Geneva, New York	Sept 26, --
Fur cutting and cloth shearing machine.	B. Martial and D. Johnson, Concord, New Hampshire	Dec 7, --
Floating dry dock.	J. Adamson, Boston	Dec 13, --
Floating machine, for mud.	S. Davis, Baltimore	Jan 22, 1817
Fire places.	Levi Shepherd, Massachusetts	Jan 25, --
Folding paddle.	Eben. Jenks, Colebrook, Connecticut	June 6, --
Fire places.	William Salisbury, Derby, Virginia	Aug 16, 1817
Fires, mode of extinguishing.	See <i>Chimnies</i> .	
Flour worm for cooling flour.	J. Smeizer, Adams county, Penn.	May 6, 1818
Farmer's spinner, for wool.	John Brown, Providence, R. I.	May 12, --
Files, machine for cutting.	Cyrus Jackson, Butternuts, N. Y.	May 23, --
Furnace and boilers for manufacturing salt.	Samuel Anthony, Lynchburg, Virginia	May 29, --
Flax and hemp, machine for breaking.	W. Van Duzer, Warwick	June 30, --
Ferry boats.	Thomas Cahoon, Pittsfield, Massachusetts	June 25, --
Fire places and stoves.	E. Haskell, New London, Connecticut	June 25, --
Fire places and stoves.	Chauncey Guernsey, Poultney N. Y.	July 7, --
Fur, extracting hair from.	John Hollingshead and Daniel Baker, Trenton, New Jersey	Aug 19, --
Fetters for horses.	Joseph Watson, New Canaan, Conn.	Jan 15, --

Fan for cleaning wheat.	Edward Brooks, Wilmington, Del.	Jan 28, --
Founder's moulding dies.	Eben. Bryant, New London, Conn.	March 18, --
Fire engine.	John Richardson, jun. Shrewsbury, Mass.	July 24, --
Fire places, improvement in.	Eben Jenks, Colebrook, Conn.	Sept 2, --
Fire places, improvement in.	Eliphalet Nott, Schennectady, New York	Feb 3, 1819
Floor cloths, paper.	Francis Guy, Baltimore	Feb 23, --
Fly wheels used as a power.	John Ardronau, New York	April 25, --
Fire places close and open.	John C. Brush, Washington, D. C.	Aug 19, --
Ferry boats, propelling.	Robert Speeden, Easton, Maryland	Aug 26, --
Flood gates for mills.	J. Lucas, jun. Charleston, S. C.	Nov 6, --
Fire engine assistant, or life pole.	Wm. W. Van Loan, Catskill, New-York,	Feb 2, 1822
Fire places, improvement in.	Joseph Maggini, Baltimore	Feb 4, --
Fire places, improvement in.	Stephen Spalding, Colchester, Connecticut,	April 11, --
Fire engine, improvement in the.	Solomon Lockwood and William Lovland, Little Falls, New-York,	April 16, --
Fire places, mantle and fender for.	Elijah Skinner, Sandwich, New-Hampshire,	April 19, --
Fire engines, improvement in.	Ebenezer Higgins, Saratoga, New-York,	April 27, --
Fire places and stoves, improvement in.	Lemuel Hitchcock, Wethersfield, Vermont,	May 4, --
Flax, machine for breaking and awingling.	S. Davidson, Romulus township, New-York,	May 17, --
Flax and hemp machine.	Henry Burden, Albany, N Y.	June 15, --
Flax and hemp machine.	William Cumberland, New-York,	July 9, --
Flax and hemp machine.	James Macdonald, New-York,	Aug 31, --
Forge, hollow fire.	Samuel Collins, Springfield, Mass.	Sept 11, --
Flax and hemp dressing machine.	Naman Goodsell, Paris, New-York,	Sept 19, --
Floating vessels, machine for.	John Denny, Queen Ann county, Maryland,	Oct 3, --
Fire arms, improvement in.	Albern Holcomb, Litchfield, N. York,	Oct 31, --
Flumes for mills, improvement in the.	A. Messer, Providence, Rhode-Island,	Nov 19, --
Flax and hemp, improvement in the machine for breaking.	Wm. Cumberland, New-York,	Nov 29, --
Flax and hemp, machine for dressing.	James Macdonald, New-York,	Jan 18, 1823
Flax and hemp, machine for dressing.	Joseph Huges and Wm. Bain, Columbus, Ohio,	Feb 3, --
Fire proof furnace, improvement in.	John Miller, (mason) Northampton county, Pennsylvania,	March 13, --
Flax and hemp, machine for breaking.	Naman Goodsell, Olin-ton, Oneida county, New-York,	March 21, 1823
Fire-fender, improvement in the.	Matthew Benson, Ohio,	May 19, --
Forks, making four pronged.	Granville Martin, Waterbury, Connecticut,	June 13, --
Fire engine and water pump.	E. Williams and J. Collins, Falley x roads, Massachusetts,	June 20 --
Fencing, improvement in.	Othello Church, Friendship, N. Y.	July 3, --
Forks, improvement in making dung.	Christian Lawrence, Chatham, New-York,	July 23, --
Fires in chimneys, extinguishing.	Daniel Berrien, N. Y.	Aug 21, --

Forges and furnaces, backs for. Lewis Gillet, Copenhagen, New-York,	Aug 21,	--
Flax, improvement in breaking, dressing, &c. Asa Hook, Maine,	Sept 9,	--
Fanning mills, improvement in the. David Neefus, Flat Lands, Island, New-York,	Sept 22,	--
Fulling woollen cloth, improvement in. M. W. Northrup and R. R. Dillon, Sussex county, New-Jersey,	Dec 4,	--
Flax and hemp, machine for breaking. Frederick Cox, Somerville, Somerset county, New-Jersey,	Dec 4,	--
Fids for supporting masts. Benjamin Rotch, junior, 6 Upper Berkley Place, Bristol, England,	Dec 10	--
Flax and hemp, machine for dressing. Benjamin Lewis, Ligonias, Maine,	Jan 28,	1824
Fur blower. William B. Rotch, Bristol, England,	March 9,	--
Fire engine, horizontal. Luther Holland, Belcherstown, Mass.	March 11,	--
Fishing, improvement in. Daniel Gordon, Lower Chanceford, Pennsylvania,	March 27,	--
Forks, making four tined. Martin Stevens, New-Haven, Conn.	April 16,	--
Flax and hemp dressing machine. Platt Wakalee, Augusta, Oneida county, New-York,	April 16,	--
Flax and hemp dressing machine. Erastus Kellog, Palmyra, New-York,	May 11,	--
Flax and hemp dressing machine. William C. Davison, Pittsford, New-York,	June 22,	--
Fanning mill. Lemuel Peck, Brookfield, Connecticut,	Aug 13,	--
Flyer used in spinning, &c. O. G. and N. Rogers, Whitestown, New-York,	Aug 28,	--
Fly killing machine. Andrew Glendening, Loudon county, Va.	Sept 9,	--
Flax and hemp, machine for breaking and swingling. Reynolds Gilman, New-York,	Nov 5,	--
Flax and hemp, machine for dressing. Franklin Kelsey, Middletown, Connecticut,	Nov 26,	--
Flax and hemp, machine for dressing. Thomas S. and A. Barnum, New-York,	Nov 27,	--
Flour, mode of preserving. William Wood, junior, St. Clairsville, Ohio,	Dec 4,	--
Felloes, mode of cutting. B. L. Greenough, Lebanon, N. H.	Dec 21,	--
Family spinner. D. Pool and A. Copeland, Philadelphia,	Dec 24,	--
Flax breaking machine. Pierson Reading, Trenton, N. J.	Jan 3,	--
Bloom for water wheels. Jabez B. Fletcher, Richmond, Me.	Feb 16,	--
Family spinner and bobbin winder. John Gill, Plum township, New-York,	Feb 19,	--
Flax, machine for dressing. Francis Burdick, Kortright, N. Y.	Feb 28,	--
Flour, mode of preserving. Edwin Hord and B. Browning, Fleming county, Kentucky,	March 12,	--
Flax, machine for dressing. William Wheeler, Warren, N. Y.	March 26,	--
Fanning mill, improvement in the. Enoch Walker, Springfield, Pennsylvania,	March 28,	--
Fire places and chimneys. Cyrus Blood, Hagerstown, Md.	April 7,	--
Furnaces for fossil coal. Daniel Stansbury, Belleville, N. J.	April 15,	1824
Friction, mode of lessening. Peter Freeman, Morris county, New-Jersey,	June 1,	1825
Fire places, improvement in. William Hoyt, Brookville, Ind.	June 3,	--
Fire brick and fire clay, improvement in. Richard H. Smith, Baltimore, Maryland,	Sept 27,	--
Fur, mode of preparing for hatters. Arnold Buffum, Troy, Mass.	Sept 28,	--



Furnace for heating hatters' irons, &c.	G. V. Raymond, Richmond, Virginia,	Sept 29, --
Forge and furnace water back and towel.	Asa Blood, Conhoughton, New-York,	Sept 29, --
Fan and screen, improvement in the.	John Peyton, Orange county, Virginia,	Nov 7, --
Furnaces, constructing.	Oliver Woodruff, New-York,	Nov 7, --
Furnaces for burning anthracite coal.	John L. Sullivan, N. Y.	Nov 26, --
Flax and hemp, rotting by steam.	Archilles Chien, Harrison county, Kentucky,	Dec 28, --
Felloes, machine for sawing.	P. [James C.] Collier, Catskill, New-York,	May 20, 1826
Furnaces and stoves for heating hoops.	Garrett Post, Auburn, New-York,	May 22, --
Flax and hemp dressing, machine for.	Joseph Hines and W. Bain, New-York,	Aug 11, --
Fur, machine for cutting.	Jeremiah Hubbard, Jamestown, North Carolina,	Nov 4, --
Fanning mill, improvement in the.	O. Pinney and James Olmstead, Caledonia, New-York,	Nov 7, --
Furnaces, fire places, and stoves, improvement in.	Social Rolph, Whales, New-York,	Nov 8, --
Furnaces for burning anthracite coal.	William Church, Boston, Massachusetts,	Nov 20, --
Fire arms, improvement in.	Fordyce Ruggles, Hardwick, Massachusetts,	Nov 24, --
Fire places, forges, and furnaces, improvement in.	J. W. Booth and William Lyman, Boston,	Nov 29, --

## G

Gin, cotton.	See <i>Cotton Gin</i> .	
Grain and corn, thrashing of.	Samuel Mullikin, Philadelphia,	March 11, 1791
Gun powder.	Henry Keyser, Philadelphia,	Aug 10, --
Grain thrashing, &c.	William Hodgson, Virginia	March 28, 1794
Thrashing of } Cleaning of }	Wheat. See <i>Wheat</i> .	
Cleaning of seed.	See <i>Seeds</i> .	
Glass, apparatus for cutting.	Benjamin Du Val,	Feb 14, 1799
Grist mills, improvement in.	- - - - -	Feb 20, 1800
Gin for cotton.	See <i>Cotton Gin</i> .	
Grain separated from straw, machine for.	Christopher Hoxie, Hudson, New-York,	Aug 25, 1801
Gin rollers metallic, for cleaning cotton.	G. F. Saltonstall, Fayetteville, N C	Sept 2, --
Grist mill, improvement in.	John W. Holley,	March 27, 1802
Gun lock, improvement in.	Edward West, Fayette county, Kentucky,	July 6, --
Grain, machine for thrashing.	Joseph Pope,	July 22, --
Gauge auger, improvement in.	Abel Stowell,	Feb 14, 1803
Grain and grass, improvement in cutting.	R. French and J. T. Hawkins,	May 17, --
Grinding painters' colour, printers' ink, &c. improvement in.	John Cist,	Dec 3, --
Gallows, or suspenders, improvement in.	S. Smith, New-London, Conn.	Oct 24, 1804
Gun powder, machine for granulating.	E. J. Du Pont de Nemours,	Nov 23, --

Gun barrels, machine for boring. See <i>Boring</i> .	
Grist mill, improvement in. J. Copes, Georgetown, Del.	May 2, 1805
Glazing and polishing linens. W. Smith, N. Y.	May 9, --
Gun carriages, improvement in. S. Hawkins, N. Y.	Feb 19, 1906
Grinding, sawing, and rasping dye woods. John Matthews, Philadelphia,	Feb 6, --
Grist mill. Ezekiel Hall, Haverhill, Mass.	Feb 22, 1807
Gunners quadrant. C. Hammond, Concord, Middlesex county, Massachusetts,	May 5, --
Galvanism for salivating, &c. William Phœbus, N. Y.	June 9, --
Green colour, mode of preparing. B. A. De Carrendeffez, New-York,	Oct 12, --
Gauge for saw mills. Anson Blake, Lincoln, Kentucky,	Nov. 27, --
Grinding bark, &c. machine for. O. Pease and A. Donalds, Norwich, Conn.	March 18, 1808
Geometrical interest table. Gershom Cobb, Boston,	Sept 7, --
Grinding bark, machine for. Paul Pilsbury, Newbury, Mass.	Sept 22, --
Grist mills, improvement in. Rupes W. Adams, Marlborough, Vermont,	Dec 8, --
Geer press See <i>Cheese</i> .	
Gin. See <i>Hollands</i> .	
Geometrical interest table. Gershom Cobb, Boston,	April 24, 1809
Geometrical writing plates. Samuel Ellis,	Nov 25, --
Grain, machine for cleaning, &c. Joel Morgan, Baltimore,	Feb 20, 1810
Grain, method of separating onion seed from. L. Ruggles and D. Tomlinson, Brookfield,	March 16, --
Gas lamp. David Melville, Newport, R. I.	May 1, --
Gun barrels, machine for turning. Seth Youngs, Hartford, Conn.	May 1, --
Grecian chaise body. Phineas Dow, Boston,	May 15, --
Grain and grass, cutting and gathering. J. Comfort, Buck's county, Penn.	Feb 29, 1811
Gin, mode of making. Erastus V. Freeman,	April 10, --
Granulating gun powder. Richard Crosbie, Newark, N. J.	Feb 17, 1812
Grates. Charles Hunt, New-York,	March 17, --
Grinding corn in the cob. William Mayo, Henrico, Va.	May 15, --
Gas lamp. David Milville, Newport, R. I.	March 18, 1813
Gimlet twisted screws. J. Broad, Salisbury, Conn.	June 25, --
Gun powder. Thomas Ewell, Georgetown, D. C.	Dec 7, --
Gauge for a trip hammer. B. Richardson, Western, Mass.	May 17, 1814
German flute. William Schaffer, New-York,	June 6, --
Gun carriage pivot. Luke M. Loughton, Portsmouth, N. H.	Nov 29, --
Gun powder granulating. Joseph Wasley, Bern, N. Y.	Feb 21, 1815
Guns and rifles. Frederick Oswan, Harper's Ferry, Va.	Feb 25, --
Graphic plates for bank notes. John Meer, Philadelphia,	July 1, --
Grain, screen for cleaning. E. Tisdale, Windham, Conn.	July 17, --
Grain, machine for thrashing and cleaning. A. D. Leroy, N. York,	July 29, --
Glass furnace, for making. J. Stranger and A. H. Miller, Philadelphia,	Aug. 16, --
Gas light from stove coal. Z. Enters and W. Zigler, Georgetown, D. C.	Sept 28, --
Grain, machine for hulling and grinding, &c. T. Ellicott, Penn.	Feb 16, 1816
Gas making, carbonated hydrogen. B. Hugler, Philadelphia,	April 23, --
Glass making. William Price, Pennsylvania,	March 4, --
Gun powder, granulating. Charles Dalmas, Wilmington, Del.	April 26, --
Grain cleansing. Israel Honeywells, Hillsdale, N. Y.	April 27, 1816
Greasing the axletrees of carriages. F. Brimler, N. Y.	Aug 22, --

Grammatical Key. James Brown, jun. Newark, N. J.	March 3, --
Gurida depurative. John James Girard, Baltimore,	Sept 9, 1817
Gate, rising and faucet. J. Brainard, Oneida co. N. Y.	Oct 4, --
Gun barrels, making. A. Waters, Milbury, Mass.	Oct 25, --
Gilding on leather, &c. Andrew Allen, New-York,	Dec 26, --
Grammatical Mirror. John Brown, jun. Springfield, N. Y.	March 17, 1818
Grain, machine for cleaning, &c. A. Fettrow, York, Penn.	May 23, --
Gun, rifle, &c. to discharge 7 times. Artemas Wheeler, Roxbury, near Boston,	June 16, --
Gun powder, granulating. Daniel Rogers, Newburg, N. Y.	Aug 6, --
Gill nets, catching fish. James Drummond, N. Y.	Aug 27, --
Gun barrels. Asa Waters, Milbury, Mass.	Dec 21, --
Gun and rifle barrels, improvement in. Artemas Wheeler, Mass.	Feb 19, 1819
Grain, machine for hulling. Benjamin Maltby and Maltby Fowler, New-Haven, Conn.	Feb 26, --
Gun or rifle, improvement in the. Obadiah Stith, Quanelsville, Brunswick, Virginia,	March 16, --
Galley for ships, or fire hearth range. George Youle, N. Y.	March 19, --
Glass strings for pianos. Richard Bury, Albany, N. Y.	Aug 21, --
Granulating gun powder. Gardiner Fulton, Philadelphia,	Aug 21, --
Gun stocks, machine for turing. Thomas Blanchard, Milbury, Mass.	Sept 6, --
Gun powder, improvement in making. Joseph M. Merrow and Robert M. Kee, junior, East Hartford, Connecticut,	April 19, 1822
Glass lights for ships, &c. Joshua Oakes, Boston,	May 11, --
Ginning cotton, machine for. S. Pennoyer, Cross-river, West Chester, New-York,	July 24 --
Gun powder, machine for granulating. William H. Richardson, Baltimore,	Aug 3, --
Glass buttons, furnace for. George W. Robinson, Attleborough, Massachusetts,	Aug 19, --
Glass buttons, finishing. Spencer Richards, Attleborough, Massachusetts,	Aug 29, --
Grid-irons, improvement in. Daniel Ball, Ballstown Spa, N. Y.	
Glue, improvement in making. John Henry Mark, Phil'a,	Oct 3, --
Gas, making combustible. William Garnet, Rome, N. York,	Dec 27, --
Grinding, machine for. John Bolton, Warren, New-York,	Jan 9, 1823
Grass seeds, machine for cleaning. Howland Child, Canton, Maine,	Jan 11, --
Girth, improvement in the elastic spring. Peter Harry, Harrisontburg, Virginia,	Feb 1, --
Grain cradle, improvement in the. Isaac Babcock, Ransselearville, New-York,	March 24, --
Grain, machine for grinding. J. C. Langdon and J. Thrash, Troy, New-York,	Sept 26, --
Grain, machine for scouring and cleaning, John Litchenberger, Philadelphia,	Nov 24, --
Guns, improvement in. Alexander Bowden, Newark, N. J.	Jan 10 1824
Grain, improvement in scouring. Lot Forrester, Ridgefield, Connecticut,	Feb 13, --
Gun barrels, rolling the scalps of. John Bruce, Springfield, Massachusetts,	Oct 15, --
Gas, machine for charging liquids with. Joseph H. Laning, Davidsen county, Tennessee,	Dec 22, --
Grasses, making brushes and brooms of. Shad. H. Weed, N. Y.	Feb 28, 1825
Grain, cast iron mill for grinding. Henry Bailey, Hartford, Connecticut,	May 14, --

Geographical garden, discovery of. Geo. W. Cherry, Derby, Connecticut,	May 27, 1825
Guns, improvement in making percussion. James Tyrer, Petersburg, Virginia,	June 3, --
Glass furniture knobs, improvement in making. J. P. Bakewell, Pittsburg, Pennsylvania,	Sept 9, --
Grate, improvement in the reverberating. Robert Mayo, Richmond, Virginia,	Nov 1, --
Garments, mode of measuring and cutting. S. Stephenson, Baltimore,	March 15, 1826
Gauge sight for steam boilers. Wm. Baker, Kingston, Penn.	March 24, --
Gun stocks, crooking. John Schirer, Charleston, S. Carolina,	April 12, --
Geer, screw, for machinery. Charles Wartham, Warrenton, North Carolina,	April 24, --
Grain, cleaning. Leinuel Lee and Cornelius Masten, Penn Yan, New-York,	April 25, --
Globes, making the inner body of. Wm. B. Annin, Boston, Massachusetts,	May 4, --
Garments, scale for draughting. N. B. Starr, Philadelphia,	July 10, --
Grinding machine, for shelled coracobs, &c. Jarvis Webster, Philadelphia,	July 31, --
Glass knobs. H. Whitney and E. Robinson, Cambridge, Mass.	Nov 4, --
Gin, improvement in the common foot. James B. Barnes, Beaufort, South Carolina,	Nov 6, --
Grate and blower for Leheigh coal. S. C. Moott and William Holmes, New-York,	Nov 26, --
Grater, corn and apple. Camm Moore, Gardiner, N. C.	Dec 30, --
Gas for engines, charing wood for. Samuel T. Jones, Phil.	Jan 17, 1827
Gun lock, improvement in the. Simon Cromwell, Edgecomb, Maine,	Feb 3, --
Geering for mills, making. Charles Neer, Waterford, N. Y.	March 6, --
Grinding and polishing hard and soft substances. Benjamin Green, Hartford, Vermont,	March 27, --

## H

Hydraulics, improvement in. Joshua Hatheway, Vermont	Oct 29, 1794
Harbors. See <i>Docks</i>	
Hemp, &c. breaking and swingling of. Samuel Mullikin, Phil.	March 11, 1791
Hemp and flax, &c. spinning of. George Parkinson, Phil.	March 17, --
Hemp and flax breaking. Samuel Mullikin, Philadelphia	Jan 15, 1795
Hats making. James Long	Aug 5, 1799
Hoops of iron, improvement in straightening. B. Seymour	June 26, 1797
Hides and skins, machine for splitting. T. O. Harrison	May 19, 1800
Hydraulic machine for raising water. Bar. Langdon, St. Alban's, Vermont	Feb 20, 1801
Hydraulic engine. John Strong	March 24, --
Hemp and flax, mode of breaking. Hezekiah Betts	May 3, 1802
Hulling rice, machine for. Christopher Hoxie, Hudson, N. Y.	Jan 7, 1803
Horizontal wind mill. John Baptiste Avelthe	March 16, --
House fan, improved. Edward Marquam	March 28, --
Heating and boiling. See <i>Water</i> .	
Hinges, machine for making. David Morse	June 10, --
Hats, improvement in the mode of manufacturing. E. Corning, jun. Hartford, Connecticut	June 13, --
Hats. See <i>Seals' Fur</i> .	
Horizontal draft wind mill. Samuel Goodwin	Oct 31, --
Hydro Mechanical press. John Beverly	Dec 26, --
Hemp and flax. See <i>Breaking</i>	
Hone. See <i>Metallic Grinder</i>	
Horses ears, mode of improving. Seth Janes	Dec 31, 1804

Hackling. See <i>Tow</i> .	
Hats, machine for making bats or frames for wool. R. Gookins, New-Hampshire, Massachusetts	Jan 24, 1806
Hoisting machine. Wm. Purden, Baltimore	March 19, --
Hemp and flax machine. R. Button, Cassenovia, New York	Feb 11, 1807
Hats. See <i>Carding</i> .	
Heating rooms, mode of. Allan Pollock, Boston	April 24, --
Heating water for steam by the rays of the sun. Mat. Long- well, Gettysburg, Pennsylvania	July 11, --
Harrow, improvement in. Seth Vinton, Willington, Conn.	Nov. 18, --
Hoop and sheet iron. J. H. Pierson, Rockland	Dec. 24, --
Hemp machine for breaking and swingling. T. Cohoon, Wash- ington	April 13, 1808
Hats, cloths, &c. mode of manufacturing from the fleece, with- out bowing. R. Pitkin, East Hartford, Connecticut	April 23, --
Hydrant for drawing water from aquæducts. D. Burt, She- nectady, New-York	June 22, --
Heating liquids. Samuel Bolton, Philadelphia	Jan 16, 1809
Holland gin, mode of making. A. Bouchrie, Philadelphia	Jan 31, --
Horse boat. Moses Craft, Troy, New-York	Feb. 14, --
Hand saw. See <i>Saw</i>	
Harness. Benjamin Mirick, Rutland county, New-York	April 21, --
Hubbs, machine for dividing and boring. J. B. Cleveland, Ber- gen, New-Jersey	June 7, --
Hemp and flax spinning machine. N. Foster, Flamsbury, Ken.	June 28, --
Hats, mode of manufacturing. Henry Lainhart, jun. Balt.	July 6, --
Hut pressing paper. Francis Baily, Philadelphia	July 31, --
Hydraulic ram. Jos. Cerneau and S. J. Hallet, New-York	Aug 3, --
Horizontal mill. Israel Kelsey, Hartford, Connecticut	Aug 25, --
Horse shoes, machine for making. S. Decatur and W. Tat- ham, Washington	Oct 11, --
Hides, improvement in Bent's machine for splitting. W. Brown, Philadelphia	Nov 20, --
Heat to fluids, mode of application. S. Applegate, T. How- ard, and P. H. Wharton, Philadelphia	Nov 22, --
Hemp break. William Mason, Washington county, Ohio	Dec 28, --
Hopper blower. T. S. Barnum, Sharon, Connecticut	Jan 18, 1810
Hair, method of extracting from peltry. E. Cutter, Walpole, New Hampshire	Feb 12, --
Hats, planking. John Gregg, Green county, Pennsylvania	March 14, --
Hoops, Machine for shaving. David Shiver, Petersburg, Penn.	March 17, --
Horse mill. Ephraim Brown, Boston, Massachusetts	April 10, --
Hides, machine for shaving and splitting. N. P. Whiting, Pro- vidence, Rhode Island	April 25, --
Hats, mode of manufacturing military. S. Hoskins, Catskill, New York	April 30, --
Hinges, mode of casting. G. A. Rogers, Newburyport, Mass.	July 3, --
Harness, mode of making, for saddlery. B. Foster, D. Washburn, N. Rockwell and J. O. Walker, Castletown, Virginia	Aug 1, --
Hessian fly, mode of destroying. W. Armistead, Prince William county, Virginia	Nov 13, --
Hats, manufacturing. S. Sibballs, jun. Tyringham, Mass.	Dec. 26, --
Horses, training and breaking. Townsend Cock, New York	March 1, 1811
Hats, planking and setting. Israel Swan, Haverhill, N. H.	March 7, --
Hats, steaming, &c. J. Sizer, New London, Connecticut	Nov 6, --
Hats of paper. Joseph Ford and John White, Boston	Nov 25, --
Hydro pneumatic engine. R. Crosbie, Newark, N. J.	Jan 6, 1812
Hats. Frederick Messer, Guildhall, Vermont	Jan 23, --
Horse hoofs, &c. combs made from. E. Morris, Canviss, South- ington, Connecticut	May 6, --



Hatters, machine for boiling for. H. S. Holliday and E. G. Griffin, Lyme, Connecticut	June 6, 1812
Hides, machine for breaking, &c. N. Kirk and S. Clark, St. Clairsville, Ohio	July 18, --
Hides and skins breaking, &c. T. E. Barker and S. S. Fordham, Hudson, New York	Oct 15, --
Hinge, elliptical. M. and R. Reeve, Burlington, New Jersey	Oct 31, --
Hulling machine. S. Hought, Philadelphia	Nov 16, --
Hide, mill for softening, &c. W. Edwards, Northampton, Mass.	Dec 30, --
Hair. See <i>Cloths</i> .	
Hats, mould for forming, &c. J. Wereley, Albany, New York	Oct 14, 1813
Hair, machine for spinning. W. Shotwell and A. Kinder, N. Y.	Nov 4, --
Hair, machine for carding, &c. do do	Nov 4, --
Hopper, filler for flour. A. Hershe, Lancaster, Pennsylvania	Jan 15, 1814
Hats, making felt. J. Carleton, Salem, New Hampshire	Jan 21, --
House warmer, &c. R. Annesley, Philadelphia	April 27, --
Hinges, cast iron. Cyrus Alger, Boston	May 18, --
Horn, splitting and shearing. John Pulsifer, Newbury, Mass.	May 24, --
Holdfast for buttons. Ira Ives, New Haven, Connecticut	June 18, --
Horse boats, machine for. David Dunham, New York	June 28, --
Harness buckles, cutting. James Carman, Hudson, N. Y.	Oct 12, --
Heater and condenser for distilling. Thomas Shurley, Madison county, Virginia	Nov 18, --
Heddes, metallic, for weaving. W. James and D. Bolles, Ashford, Connecticut	April 26, 1815
Hydrastatic paradox to move, machine. Cad. D. Colden, N. Y.	May 19, --
Hats, manufacturing. Jehiel and John Bryan, Saratoga, N. Y.	Aug 26, --
Heat, space applied to steam engine. E. Burrall, Canaan, Conn.	Jan 31, 1816
Hats, making cemented. Nathan Weston, Reading, Mass.	May 24, --
Hats, blocking. David Beard, Guilford, North Carolina	May 28, --
Hatters' plank kettle. Schuyler Fisher, Herkimer co. N. Y.	July 15, --
Hats, improvement in. William Goodrich, Philadelphia	Aug 20, --
Horse mill. William Cornwell, Accomak, Virginia	Dec 14, --
Hydraulic machine. Charles Darmand, Georgetown, D. C.	Aug 7, 1817
Hats, water proof stiffening. William Ruckle, Baltimore	Nov 28, --
Horn, manufacturing for combs. M. P. Smith, Poughkeepsie, New York	Jan 28, 1818
Hulling grain, machine for. Benjamin Maltby and Maltby Fowler, New Haven, Connecticut	Feb 28, --
Hulling grain, machine for. James Jones, Willington, N. H.	Feb 25, --
Horse rake. Pierson Reading, Trenton, New Jersey	Aug 1, --
Horse wheel to propel boats. R. Bowne and J. Murphey, N. Y.	Nov 18, --
Hydraulic machine. Joseph James Lyngamore, Maryland	Nov 18, --
Heat retainer and impartor. J. K. Mitchell, Philadelphia	Nov 19, --
Hides, machine for breaking. William M. D. Hasbriouch and Jacob Dufenback, Bloomsbury, Pennsylvania	Feb 8, 1819
Hats, making. Silas Mason, Norfolk, Massachusetts	Feb 20, --
Hoe, improvement in the. E. Kimbail, Fitchbury, Mass.	April 3, --
Hydraulic machine. Jeremiah Black, Northumberland county, Pennsylvania	April 23, --
Hat rounder and gauge. S. Jones, Bridgeport, Fayette county, Pennsylvania	June 2, --
Horse boats, improvement in the. B. and J. C. Langdon, Troy, New York	June 5, --
Hot pressing, heating plates for. Moses A. Quigley, Washington county, Maryland	June 15, --
Heights and distances, machine for measuring. Benjamin Wilmer, Baltimore	Aug 20, --
Hats, water proof stiffening for. J. Heinrie Tilge, Washington	Sept 23, --
Horse wheel. Moses Isaacs, New York	Nov 17, 1819
Hanging bells. Anthony Lynar, New York	Dec 24, --

Hollowing iron for fire, &c.	See <i>Fire, mode hollowing.</i>	
Hats, elastic water proof.	Arnold Buffum and J. Kelly, Medford, Massachusetts	Feb 17, 1820
Hoe, improvement in the common.	P. H. Merrill, Hinsdle, N. H.	April 6, --
Horse shoes improvement in.	J. B. Brown and J. Farmer, Boston	March 11, 1822
Hair, mode of taking from the skins of the Nutria.	Samuel Brooks, New York	April 4, --
Horse hay rake, improvement in the.	Moses Pennock, East Marlborough, Pennsylvania	June 26, --
Hulling machine for grass seeds, &c.	Thatcher Blake, Paris, Maine	July 12, --
Hydrometer, improvement in the.	J. C. Tucker and E. Dwelle, Boston	Dec 23, --
Hulling grain, machine for.	John Bolton, Warren, New York	Jan 9, 1823
Hats and bonnets, weaving straw for.	Lucy Burnap, Merrimack, New Hampshire	Feb 15, --
Hames, improvement in the chaise.	Herrick Aiken, Brighton, Massachusetts	March 12, --
Hoes, improvement in.	Joseph Watson, New Canaan, Conn.	July 26, --
Hulling grain, machine for.	Nathaniel Barrett, Paris, N. Y.	Aug 21, --
Hats, improvement in the kettle for coloring.	Joel Taylor, Danbury, Connecticut	Nov 20, --
Harrow teeth, improvement in making.	William M'Conaughey, Newgarden, Pennsylvania	Dec 8, --
Hydrants, improvement in the construction of.	T. Gibson, Phil. S. Ewing, do	Dec 13, -- Dec 19, --
Hats, machine for steaming and hardening.	Nirum Wildman, Danbury, Connecticut	April 2, 1824
Horse and oxen shoes, improvement in making.	Peter Sternberg, Danube, New York	April 10, --
Horse wheel, improvement in the inclined.	J. Keller and S. Burt, Cincinnati, Ohio	April 23, --
Horse wheel, improvement in the inclined.	John Bradford, Lexington, Kentucky	May 14 --
Hulling grain, machine for.	William J. Hart, Talmage, Ohio	May 21, --
Hydraulic machine, double reacting.	James O'Connor, Bedford, Pennsylvania	May 29, --
Hoe-harrow, improvement in the.	Aquila Newbern, Bristol, Pennsylvania	June 1, --
Hub or gig band, improvement in the carriage.	Christian Cornelius, Philadelphia	June 18, --
Horse scythe.	John A. Wadsworth, Newport, Rhode Island	July 3, --
Hats dyeing.	Israel Taylor, Trenton, New Jersey	Aug 27, --
Hatters' grates for boilers, &c.	Hubert V. Raymond, N. Y.	Sept 16, --
Harrow, self-sharpening.	H. Hopkins and J. Pratt, Pompey, New York	Nov 9, --
Horse-rake, improvement in the revolving.	Moses Pennock Kennett Square, Chester county, Pennsylvania	Nov 23, --
Horse-rake revolving.	do	Feb 8, 1825
Hoes, improvement in making.	Paul Whitin, Northbridge, Massachusetts	Feb 22, --
Horse power to all kinds of machinery.	Benj. Maltby, N. Y.	April 11, --
Hat bodies, improvement in the mode of making.	Joseph Grant, Providence, Rhode Island	April 28, --
Hatters' planking kettle, improvement in.	Ezra Joyce, Brooklyn, New York	June 6, --
Hubs, cast iron, improvement in.	Benjamin Lyman, Manchester, Connecticut	Oct 29, --
Hydrostatics, &c. improvement in.	E. C. Genet, Albany, N.Y.	Oct 31, --

Horse wheel barrow, improvement in the.	Ireh Rowley, Pittsford, New York	Nov 1, 1825
Hats, mode of coloring and dyeing.	Morris Burt, Warwick, N.Y.	Nov 8, --
Hats, mode of planking wool.	Laban L. Macomber, Bath, Me.	Dec 31, --
Heat, evolution and management of.	Eliphalet Nott, Schenectady, New York	March 23, 1826
Horse mill.	Adl. Warren, Saugertius, New York	April 15, --
Hats, machine for finishing and ironing.	James Cooper and Thomas Barnett, Philadelphia	May 31, --
Heat, evolution and management of.	E. Nott, Schenectady, New York	June 21, --
Hydraulics, improvement in.	Wm. Lanphier, Alexandria, D. C.	Sept 2, --
Hubs of wheels, boring machine for the.	Ebenezer Johnson, Lexington heights, New York	Nov 7, --
Hay, double box for pressing.	E. Waterhouse, Gardiner, Maine	Nov 14, --
Hides, machine for breaking.	Hezekiah S. Clark, Randolph county, North Carolina	Dec 22, --
Hats, application of steam in making.	William Harkins, Wheeling, Ohio county, Virginia	Dec 29, --
Heat, improvement in the evolution and management of.	E. Nott, Schenectady, New York	Dec 29, --
Hoes, in making.	Chauncey Bulkley, Colchester, Connecticut	Jan 10, 1827
Heating ovens, rooms, &c. mode of.	Michael B. Poitiaux, Richmond, Virginia	Jan 17, --
Hats, improvement in the mode of planking	R. Bacon, Boston	Jan 31, --
Harrow teeth, in the apparatus for constructing.	William M'Conaughy, Newgarden township, Pennsylvania	Feb 16, --
Horse rake, for hay and grain.	Moses and Samuel Pennock, East Marlborough, Pennsylvania	Feb 17, --
Hatters' cards, mode of making.	Joseph C. Seely, New York	March 15, --
Horse hay rake, improvement in the	Jeremiah Bailey, Phil.	March 30, --
Hominy, machine for making.	Robert Cambell, Martinsburg, Virginia	April 9, --
Hatbodies, machine for setting up.	Joseph Grant, Providence, Rhode Island	April 10, --
Hats, water proof stiffening.	Stephen Hempstead, jr. Charles county, Maine	May 25, --
Heat, evolution and management of.	Eliphalet Nott, Schenectady, New York	May 30, --

## I

Iron, improvement in casting.	William Hancock	Feb 26, 1799
Impellent pump.	S. Thayer, Braintree, Massachusetts	June 9, 1801
Iron, method of rolling out for nails.	Jesse Reed	July 15, 1802
Insubmersible boat.	See <i>Boat</i> .	
Inclined plane, statical wheel.	John William, Deerfield, Mass.	March 24, 1804
Iron screws.	See <i>Moulds</i> for casting.	
Iron, mode of manufacturing.	James Rutland, Philadelphia	Nov 12, 1807
Impelling boats, &c.	Benjamin Taylor, New York	April 25, 1808
Illuminator for lighting stair cases.	J. H. Ross, Baltimore, Md.	June 24, --
Indigo, a substitute for.	Samuel De Riemer, Poughkeepsie, New York	May 15, --
Iron, machine for moulding and rolling.	Joseph White, Phil.	March 14, 1810
Ink stands of stone.	A. H. Quincy, Boston	Sept 3, 1811
Iron, mode of making bar from scraps.	B. King, Washington, District of Columbia	Nov 15, --
Icthy occalla, or fish glues.	D. Waldron, New York	March 4, 1812
Iron ore manufacturing into paints.	Nicholson, Bairdstown, Kentucky	June 23, --
Interest table, circular.	Joseph Jelleff, Butternuts, N. Y.	Sept 8, --

Ice breaching machine. J. J. Williams, Georgetown, D. C.	March 2, 1813
Ink stands. Oliver Barker, Hartford, Connecticut	May 13, 1814
Iron, composition for softening. A. Scott, jun. and A. Seldon, Winchester, New Hampshire	Nov 8, --
Iron back log. Charles Harris, Boston	May 15, 1815
Interest table, improvement on Jelleff's. Gilbert D. Lowe, Hampfield, Pennsylvania	Aug 12, --
Imprinting on hard substances. John Edwards, New York	Aug 22, 1816
Inclined horse wheel. J. B. Robinson, Cincinnati, Ohio	Oct 14, --
Iron railing, machine for making holes in. B. King, Washington, District of Columbia	May 29, 1819
Iron, converting into steel partially. Eben. Jenks, Colebrook, Connecticut	Jan 28, 1818
Iron plates, &c. manufacturing. E. J. Ellicot, Baltimore	May 28, --
Ink standish, construction of. A. Hayward, Easton, Mass.	Nov 23, --
Inclined horse wheel. J. Palmer, Cincinnati, Ohio	Dec 29, --
Iron and steel, improvement in making. H. G. Spafford, Albany, New York	Oct 30, 1822
Inclined wheel, dead weight application to the. George Lyman, St. Charles parish, Louisiana	March 4, 1823
Isinglass or ichthyolla, making. William Hall, Boston	March 23, --
Do John Hastings, Cambridge, Mass.	Aug 14, --
Inclined wheel, propelling the. N. H. Shaw, Charlotte Hall, Maryland	Oct 9, 1824
Inclined plane, double. Archibald Tanner, Warren, Penn.	April 15, 1825
Iron and other metals, machine for slitting. Jesse Reed, Marshfield, Massachusetts	April 21, --
Iron and other metals, splaying and flaring. Noah Sutton, Bowery, New York	April 28, --
Inclined plane. Edward Clark, New York	June 27, --
Ice, applying to conduit pipes. Henry Cunningham, Johnstown, New York	June 29, --
Inclined wheel, manner of using the. Elias Holliday, Schoharie, New York	May 5, 1826
Iron, improvement in the mode of rolling. Abraham S. Valentine, Bellefonte, Pennsylvania	Jan 3, 1827
Irons for planes and jointers. Chs. E. West, Colchester, Conn.	Jan 10, --
Inlaying gold in tortoise shells. Uriah Bailey, West Newbury, Massachusetts	Feb 22, --

## J

Jaundice bitters. Jesse Wheaton, Dedham, Massachusetts	Jan 17, 1801
Junk old. See <i>Oakum</i> .	
Joining and planing machine. J. S. Mott, Alburgh, St. Albans, Vermont	March 8, 1806
Jointer and guage. J. Wadsworth, Milton, Massachusetts	Feb 10, 1810
Jostick, a composition instead of. Frederick Eckstein, and J. M. Ilhenny, Philadelphia	Oct 12, 1814
Jack. William Hoyt, Brookville, Indiana	June 3, 1825
Jointing and matching boards. D. Gleason and H. Frisbee, Betheny, New York	April 8, 1826
Jointing and tonguing boards. Elijah B. Clark, Damascus, Pennsylvania	Jan 31, 1827

## K

Keels. See *Crooked Keels*.

Keels of vessels, improvement in construction. Gilbert Livingston, Dutchess county, New York	Oct 22, 1803
Kilns for drying grain. William Pool, Wilmington, Delaware	Dec 20, 1805

Kilns for drying grain.	J. Abraham, Middlesex, New Jersey	Dec 20, 1805
Knapsacks, military.	J. P. Lherbette, Washington, D. C.	Oct 7, 1808
Kirb.	See <i>Case</i> .	
Kiln, drying corn and malt.	John Hughson, Clinton co. N. Y.	July 18, 1811
Keel, swinging.	Josiah Beall, Alexandria	Jan 15, 1815
Kitchen stove.	John Spencer, Albany, New York	Feb 8, 1813
Kitchen, moveable.	George Youle, New York	July 1, 1814
Knapping cloth.	D. Merrion and H. Kellog, Hudson, N. Y.	Oct 28, 1811
Knapping cloth.	T. S. Barnum and E. Smith, Litchfield, Conn.	April 4, --
Knapping cloth.	W. Duncan and J. Davidson, Acworth, N. H.	May 27, --
Knitting stocking and stockingette.	A. Porter, I Mead and J. Stedwell, Queensbury, New York	July 31, 1815
Kilns for manufacturing earthen ware.	J. Hassell, Elizabethtown, New Jersey	Oct 21, --
Knapping machine.	John Taylor, Waltham, Massachusetts	Oct 23, --
Keel, swinging false.	Philander Hall	April 2, 1816
Kiln for burning lime.	T. Power, Hudson, New York	Jan 7, 1817
Kiln for burning lime.	G. Harper, Jenkertown, Pennsylvania	Jan 22, --
Kiln for burning lime.	J. Swope, Lancaster, Pennsylvania	March 14, --
Knapping woollen cloth.	Bishop N. Parsons, New York	April 16, --
Kneading dough, machine for.	S. Dixon, Prince Georges county, Maryland	Feb 28, 1813
Kettles for boiling salt.	J. Kindall, Fayette county, Penn.	March 18, --
Kettles, setting.	George Whitfield, Robinson, Massachusetts	July 17, --
Kiln for drying malt by steam.	David St. Leger, Williamson county, Tennessee	Aug 30, 1822
Kiln for drying grain.	R. Andrews, Fleming county, Ken.	Nov 7, --
Knife for splitting leather, improvement in the.	H. Aiken, Brighton, Massachusetts	March 12, 1823
Kiln for burning lime, improvement in the.	Abel Jeans, Mill-creek hundred, Delaware	Feb 15, 1827

## L

Leather tanning.	James Davis, Massachusetts	April 14, 1797
Liquor.	See <i>Distilling</i> .	
Lamp, a tallow.	J. Love	June 11, 1798
Looms, improvement in.	David Greive	June 8, 1797
Lathe, improvement in blocking.	E. Whiting, Worcester, Massachusetts	April 1, 1802
Light obtained from fuel, new mode.	B. Henefrey	April 16, --
Lantern, improvement in.	J. Stanford, jun. and A. D. Allen	May 10, 1804
Lime kiln, improvement in.	Thomas Power	July 12, --
Leeches, bleeding and breeding with.	John Kunitz, Phil.	May 7, 1805
Lock, balance pendulum.	S. Godwin and R. Gaines, Baltimore and Georgetown	Jan 22, 1806
Loom for weaving chip.	P. Bennet, Rochester, Massachusetts	Feb 8, --
Lock, balance pendulum.	R. Gaines, Georgetown, D. C.	March 17, --
Lime.	See <i>Calcareous</i> .	
Lasts for boots and shoes.	W. Young, Philadelphia	May 20, 1807
Leather, mode of preparing for suspenders.	O. Webb, N. Y.	Oct 14, --
Lever for turning wheels, rowing boats, &c.	R. Hopkins, Hopkinton, St. Lawrence county, New York	March 25, 1808
Life buoy, or seaman's friend.	W. Flower, Philadelphia	May 14, --
Lighting the binnacle of ships.	W. Lewis, Boston	June 24, --
Leather, machine for shaving and splitting.	Martin Tullar, Royalton, Virginia	July 29, --
Lightning rods.	Elisha Calender, Boston	Oct 3, --
Looms for weaving.	C. Cooper, Lebanon county, Penn.	Nov 4, --
Lye, mode of cleansing and melting pot ash.	Jonathan Jones, Fabias, New York	Feb 11, 1809



Lathe, uniform turning.	A. Hagget, Middlesex, Mass.	June 10, 1809
Lever balance, spring catch.	Levi Kendall, New York	May 8, --
Lathe, mode of securing a button in.	George W. Robinson, Providence, Rhode Island	June 27, --
Lathe turning.	W. Ross, Chester county, Pennsylvania	July 10, --
Leather machine, for striping.	D. Ridgway	Oct 26, --
Loom for weaving girt and cloth.	R. Lloyd, Philadelphia	Feb 8, 1810
Lamps and liquid to be burned.	J. Hawkins, Baltimore	April 21, --
Leather, machine for stamping and staining.	R. Robinson, Newburyport, Massachusetts	March 16, --
Lantern, a reflecting and magnifying.	W. Lewis, Boston	June 1, --
Loom.	Walter Janes, Ashford, Connecticut	Sept 1, --
Loom.	S. Blydenburgh, West Brookfield, Massachusetts	Sept 12, --
Loom.	P. Clinton Curtis, Paris, Oneido, New York	Nov 17, --
Loom, water.	Thomas Mussey, Philadelphia	March 4, 1811
Lee board.	J. Swain, H. Swain, Joshua Swain, Cape May, N.J.	April 10, --
Lever purchase, for propelling, &c.	Shubail Kinball, Rhinebeck, New York	April 24, --
Lime kiln, perpetual.	W. Gorsuch, Baltimore	Aug 17, --
Looms.	N. Perry, Boston	Sept 25, --
Loom crank	E. Cutter, Walpole, New Hampshire	Sept 27, --
Loom.	Richard C. Rogers, Maine, Massachusetts	Nov 29, --
Loom.	Richard Crosbie, Newark, New Jersey	Jan 6, 1812
Loom, hand and water.	John Thorp, Providence, R. I.	March 28, --
Loom, hand and water.	Asa Campbell, Kingston, Penn.	March 28, --
Loom, water.	Silas Shepard, Philadelphia	April 27, --
Line spinner.	S. Baldwin and E. Town, Vermont	May 6, --
Liquids, machine for heating.	Roswell Valentine, Canaan, N.Y.	June 13, --
Loom.	Richard C. Rogers, District of Maine	June 23, --
Leather, plane for shaving.	F. Woodward, New Lisbon, N. Y.	July 27, --
Looms.	John Phelps Manlius, New York	Aug 27, --
Looms.	C. Cooper and G. Shaake, Lebanon, Pennsylvania	Aug 28, --
Looms.	John Hevin, Montgomery, Virginia	Oct 16, --
Leather compressing by a roller.	W. Edwards, Northampton, Massachusetts	Oct 17, --
Lamps.	James Mallory, New York	Nov 20, --
Line spinner.	A. Webster, Green county, New York	Dec 31, --
Lamp for nurses.	William Howe, Boston	Dec 31, --
Loom, domestic and manufactory.	W. Jones, Ashford, Conn.	March 20, 1813
Locks for banks.	Jacob Perkins, Newburyport, Mass.	March 23, --
Leather, machine for splitting, &c.	Samuel Parker, Bellerica, Massachusetts	April 5, --
Loom.	S. Briggs, Canaan, Connecticut	May 27, --
Loom.	Alfred Ware, jun. Franklin Massachusetts	June 18, --
Loom.	T. Robinson Williams, Newport, Rhode Island	July 3, --
Loom.	E. Robinson, Augusta, Massachusetts	June 24, --
Locks, construction of.	W. Pye, New York	Aug 5, --
Lamp, with double reflector.	W. and L. Foster, Boston	Aug 20, --
Loom, revolving.	J. Hess, Hempfield, Pennsylvania	Oct 2, --
Leather, water proof.	J. Board, New York	Nov 4, --
Loom.	Robert Sugden, Boston	Nov 2, --
Loom.	J. M. Morel, Guiramond, Baltimore	Jan 7, 1814
Loom for warping.	C. Whitney, Dedham, Massachusetts	Feb 1, --
Lee's New London billious pills.	Samuel H. P. Lee, New London, Connecticut	Feb 8, --
Looms.	John Heavin, Montgomery, Virginia	Feb 18, --
Looms.	D. Briggs, Canaan, Connecticut	Feb 19, --
Loom, water.	B. Brown, Albemarle, Virginia	March 21, --
Looms.	J. Coulter and St. Gano, Berkley, Virginia	April 18, --
Looms.	Jacob Spinkle, Wythe C. H. Virginia	April 27, --
Lamps.	Edward Clarke, Philadelphia	April 27, --

Looms. Thomas Siddall, Bristol, Pennsylvania	-	July 9, 1814
Loom, family. C. Hathaway, Walton, New York	-	Oct 11, --
Loom. W. Wright, Brooklin, New Hampshire	-	Oct 12, --
Looms. Seth Craig, Philadelphia	-	Oct 18, --
Loom, stocking. J. Bazen, jun. Canton, Massachusetts	-	Oct 28, --
Looms, temples for. B. Rogers, Beaver Creek, Ohio	-	Nov 24, --
Looms. S. Browson, Kent, Connecticut	-	Nov 5, --
Lathe Wheel. B. Hoadly, New Haven, Connecticut	-	Dec 16, --
Lathe for polishing buttons, &c. L. Meriam, N. Haven, Conn.	-	Jan 4, 1815
Loom for the warp of suspenders. W. Squire, New York	-	Jan 17, --
Loom, water or steam. S. Blydenburgh and H. Kealey, Worcester, Massachusetts	-	Feb 20, --
Looms F. C. Lovell and P. T. Jackson, Boston	-	Feb 21, --
Looms. J. Jellefs, Butternuts, New York	-	May 24, --
Looms. C. Cooper and G. Shalk, Lebanon, Pennsylvania	-	May 31, --
Ladder, conflagration. Bennet Lies, New York	-	June 20, --
Lexodromic pulley. J. S. Doulcvy, New York	-	Sept 21, --
Lime, ardent spirits obtained from. James Hall, Virginia	-	Nov 22, --
Lotteries. Joseph Vanini, Washington, District of Columbia	-	Dec 4, --
Loom, water. P. C. Curtis, Paris, New York	-	May 28, 1816
Loom. Robert Jackson, Middleborough, Pennsylvania	-	July 23, --
Loom, power. S. Shepard and J. Thorp, Taunton, Mass.	-	July 25, --
Loom. Samuel Chapman, Otsego, New York	-	Aug 24, --
Loom, water. Thomas Mussey, New London, Connecticut	-	June 10, 1817
Last, right and left. William Young, Baltimore,	-	June 10, --
Loom. Benjamin Cummings, Townsend, Massachusetts	-	Oct 3, --
Letters, projecting. Lewis Child, New York	-	Oct 4, --
Lint loom. Francis Hall, Charleston, Massachusetts	-	Nov 28, --
Laths, &c. machine for splitting. Daniel Wright, Franklin, New York	-	Jan 15, 1818
Lamps, improvement in. Winslow Lewis, Boston	-	Jan 23, --
Locks and bolts for doors. William Pye, New York	-	April 28, --
Lock, called the union lock. William Pye, New York	-	April 28, --
Leather tubes, making. A. L. Pennock and James Sellers, Phil.	-	July 6, --
Leather bags for mails, &c. A. L. Pennock and James Sellers, Philadelphia	-	July 6, --
Locks, securing. G. Whitfield Robinson, Attleborough, Mass.	-	July 17, --
Lathes for turning gunbarrels. Daniel Dana and A. Onley, Canton, Massachusetts	-	Aug 24, --
Loom, improvement in the. Edward Warren, New York	-	Aug 27, --
Leather, varnishing and japaning. J. Finegan, New Jersey	-	Oct 8, --
Lamp, Argand's, improvement on. David Milville, Newport, Rhode Island,	-	Nov. 19, --
Lever, crane. E. Smith, Paris, Oneida county, New York	-	Dec 31, --
Loom, improvement in the. L. Forester, Fairfield, Conn.	-	May 15, 1819
Lathe, of the power loom. John Whitehead, Providence, R. I.	-	Aug 30, --
Lamp, candle. Asa Taylor, Philadelphia	-	Oct 9, --
Locks for canals. Josiah White, Philadelphia	-	Oct 19, --
Lamp, pneumatic. Ezekiel F. Smith, Lenox, Massachusetts	-	Nov 8, --
Lock, water. John Martin, Windham county, Connecticut	-	Jan 15, 1820
Locks, improvement in. Henry and Jacob Day, New York	-	April 4, --
Letters, shaded. George Bruce, New York	-	April 4, --
Locks for small arms and cannon. Alexander Augustus Colville, Little River, Maine	-	April 28, --
Leather, machine for splitting. E. Howard and J. Butters, Bos.	-	May 3, --
Locks, latches, &c. improvement in. Harvey Durkee, assignee of J. Chittenden, Burlington, Vermont	-	Aug 12, --
Longitude, mode of finding the. James Henry, Maysville, Ken.	-	Sept 13, --
Lathe for stiffening hats. Henry Raymond, Baltimore	-	Nov 20, --
Leather, machine for finishing. James Burr, Johnstown, Montgomery county, New York	-	Nov 21, --

Lamps for burning fat, &c.	Josiah Warren, Ohio	Feb 20, 1821
Land clearing machine.	Thomas Oxley, Norfolk, Virginia	April 18, --
Lamps, improvement in.	James Dukes, New York	Aug 15, --
Locks and bolts, improvement in.	T. Whaley, New York	Nov 2, --
Loom, improvement in the.	Edmund Warren, New York	Dec 11, --
Life pole for fire engines.	William W. Van Loan, Catskill, N. Y.	Feb 2, 1822
Lamps, improvement in the tubes for.	Deming Jarvis, Cambridge, Massachusetts	Feb 2, --
Looms, domestic.	Benjamin Maltby, New York	April 13, --
Loom, self-governing.	Edmund Warren, New York	May 1, --
Lever, angle.	James Barron, Norfolk, Virginia	May 14, --
Locks and latches, improvement in.	Joel F. Thayer, Boston	May 18, --
Leather, improvement in the machine for splitting.	Joshua Butters, Boston	May 31, --
Lever, improvement in the.	Richard Sealy, New York	July 1, --
Locks for canals.	George Bender, New York	Aug 26, --
Locks, improvement in the sliding door.	Ebenezer Leman, jr. Boston	Nov 28, --
Lamps, improvement in.	C. Cornelius, Philadelphia	Dec 28, --
Locks, improvement in door.	Nathan Reed, Belfast, Maine	March 31, 1823
Lamp, portable condensing.	Thomas Phillips, New York	June 25, --
Lottery schemes, construction of.	Joseph Vannini, Phil.	Oct 18, --
Lathe, improvement in the turning.	C. White and A. Hill, Hadley, Massachusetts	March 30, 1824
Lancet, improvement in the spring.	Jeremiah Dewey, Chelsea, Vermont	April 2, --
Locks, improvement in the door.	Richard Wilcox, New York	April 20, --
Lancet, retreating spring.	Thomas R. Williams, Newport, R. I.	July 16, --
Lithography, improvement in.	David Henderson, Jersey City, New Jersey	Sept 17, --
Lever truss and sling for vessels.	S. A. Wells, Boston	Dec 23, --
Lotteries, improvement in the sign for.	Elijah Secor, N. Y.	Feb 9, 1825
Lotteries, improvement in the mode of drawing.	J. I. Cohen, jr. Baltimore	March 3, --
Loom for weaving.	Roswell Wilcox, Columbus, Ohio	March 21, --
Leather, machine for shaving,	John Houston and Otis Batchelder, Bedford, Willsborough county, New Hampshire	April 11, --
Lotteries, constructing and drawing.	Moses Davis, Portland, Me.	May 9, --
Lottery schemes, construction of.	John M. Togno, Philadelphia, Pennsylvania	May 16, --
Lotteries, projecting, calculating and drawing.	W. Seger, Bergen, New Jersey	May 25, --
Lighting binnacles of ships.	Joseph F. Smith, Baltimore, Md.	June 1, --
Lock, Dillingham's improved.	J. Dillingham, Turner, Maine	June 2, --
Lever, alternate propelling.	Robert Smith, Port Gibson, Miss.	June 9, --
Loom.	Joseph Scholfield, Stonington, Connecticut	Sept 9, --
Lottery.	Eliphalet Nott, Union College, New York	Sept 9, --
Lightning rods.	John Brown and G. W. Robinson, Providence, Rhode Island	Sept 24, --
Leading bar and pole for carriages.	Lucius W. Stockton, Uniontown, Pennsylvania	Sept 29, --
Lock, mortise.	Turner Whitehouse, Boston, Massachusetts	Sept 29, --
Lotteries, method of drawing.	Joseph Howard, Providence, R. I.	Nov 8, --
do	Francis W. Dana, Boston, Mass.	Dec 28, --
Locks, paddle or culvert grates for.	Daniel Rodgers, Little Falls, Herkimer county, New York	March 17, 1826
Lever, combined pendulum and balance.	Alrick Berry and C. Berry, Poughkeepsie, New York	March 25, --
Lathe, combined.	A. Warren, Saugertius, New York	April 17, --
Loom, improvement in the.	Roswell Wilcox, Franklin co. Ohio	April 21, --
Lotteries, forming schemes.	Edward Grattan, Providence, R. I.	May 16, --

Lathe, for turning broomsticks. John Hunt, Shutesbury, Mass.	June 8, 1826
Loom, improvement in the. Cor. Bergen, New York	June 14, --
Lock, mode of preserving the timber of. Simeon Guilford, Lebanon, Pennsylvania	June 10, --
Ladder, fire, improved. Samuel Lehman, Philadelphia	Aug 9, --
Lamp black, improvement in making. Joseph Hastings, Cambridge, Massachusetts	Aug 15, --
Loom, improvement in the. Samuel Chidester, Windham, N. Y.	Sept 2, --
Loom, improvement in the domestic. Jcr. Hubbard, Jamestown, North Carolina	Nov. 6, --
Lotteries, method of drawing. Wm. C. Conine, Baltimore	Nov 14, --
Lotteries, mode of drawing. John C. Rives, Washington, D. C	Nov 22, --
Lithonriptor, improvement in the. Isaiah Lukens, Philadel.	Nov 30, --
Lamp apparatus, for liquids, &c. Thomas Green, Fessenden, Boston,	Jan 31, 1827
Lime and brick, improvement in burning. Solomon Hill, New Milford, Connecticut	Feb 12, --
Locks for doors, constructing. John Brown and George W. Robinson, Providence, Rhode Island	Feb 20, --

## M

Marble and stone, polishing of. See <i>Stone</i> , &c.	
Mills, tide, improved method of working. J. Dickerson, Morris county, New Jersey	July 30, 1791
Mill wheels, horizontal hollow. J. Macomb, Princeton, N. J.	Aug 26 --
Mill, improvement on Dr. Barker's. J. Rumsey, Berkley county, Virginia	Aug 26, --
Mills, conveying water to operate on. James Rumsey, Berkley county, Virginia	Aug 26, --
Machine to work in a current of water or other fluid. John Clark, Virginia	Dec 31, 1793
Mill stones. See <i>Stones</i> .	
Mortar, manufacturing of, for flooring houses, &c. Richard Robotham, Vermont	April 12, 1794
Mill stones, burr, improvement in. Oliver Evans	May 28, 1796
Marble and other stones, improvement in sawing and polishing. Joseph F. Mangin	July 2, --
Marble, improvement in cutting and polishing. Joseph F. Mangin	Feb 16, 1797
Mills, rollers for slitting and other mills, (rolling iron.) Ben. Seymour	June 26, --
Mills, saw, improvement in. Henry Dulheuer,	Aug 18, --
Mills, improvement in. J. W. Curtis	Aug 24, --
Machine for heaving down vessels, raising weights, &c. Stephen Colver	Dec 14, 1798
Mill, a flax and hemp. B. Tyler	Feb 26, 1799
Mill, a double centred, for wind or water. B. Dearbon	April 30, --
Machine for raising water, &c. William Faris	May 17, --
Malt mashing, a machine for. William Ellis	June 16, --
Mill, saw. Thomas Payue	Dec 2, --
Mills, improvement in. Hairland Chase	Dec 16, --
Metal amulets. Edward West	May 19, 1806
Musical instruments, improvement in. J. J. Hawkins	Oct 24, --
Mill for grinding painters' colors, &c. Caleb Green, East Greenwich, Rhode Island	July 23, 1801
Machine for separating straw from grain. See <i>Straw</i> , &c.	
Meal, improvement for cooling and conveying up, &c. Gurdon F. Saltonstall, Fayetteville, North Carolina	Aug 21, --
Mechanical powers for the use of windmills, &c. See <i>Windmills</i> .	
Moveable suspended beam and scales. See <i>Beam and Scales</i> , &c.	



Machine for ruling paper. See <i>Ruling Paper</i> .		
Machine for rolling iron round. See <i>Rolling Iron, &amp;c.</i>		
Music, new plan for printing. Andrew Law	- -	May 12, 1802
Mill wheels, improvement in the construction. James Cowan		Dec 14, --
Marble. See <i>Machine for sawing stone, &amp;c.</i>		
Marle, mode of manufacturing into lime. Jedediah Peasley, Deweysburg, Virginia	- - - -	Feb 1, 1803
Marble, method of preparing for painting. Archibald Robert- son, New York	- - - -	March 5, 1804
Metallic grinder or hone. Christian Veltenair	- -	Aug 10, --
Mill. See <i>Grist</i> .		
Metallic hone. John Houston, Williamsburg, Virginia	-	May 4, 1805
Moulds for casting iron screws, method of making. Eben Lester, Herkimer town, New York	- -	May 10, --
Mills and machinery, improvement in. Lewis Velcourt, Ken.		June 25, --
Mills for cattle, power. La Paype, aine, Baltimore, Maryland		Nov 4, --
Mud, machine for raising. John Eveleth	- -	Feb 21, 1806
Moulds, method of making, for casting trundle heads of metal. Eben. Lester, Kittle Falls, New York	- -	Feb 12, 1807
Main springs for carriages. Jonathan Mix, New Haven, Conn.		April 18, --
Mills, improvement in. Christian Hamaker, Lancaster		May 21, --
Mortising machine. S. Glover and D. Parnelle, Newton, Conn.		June 3, --
Moulds. See <i>Copper</i> .		
M'Comb's water wheel. See <i>Reacting</i> .		
Mills, improvement in. Samuel Mans and J. Black, Penn.		Feb 17, 1809
Mills, improvement in. Ephraim Rew, Canandaigua, N. Y.		Feb 22, --
Mad dog, medicine to cure the bite of. Eliza Stoy, executor of William Stoy, Lebanon, Pennsylvania	- -	June 9, --
Mill for grinding painters' colors. J. J. Wells, Hartford, Conn.		June 13, --
Mowing machine, for rivers, &c. William Schultz, Baltimore		June 16, --
Morocco leather, machine for polishing. Jacob Perkins, Phil.		June 26, --
Mud, machine for raising. John Newman, Providence, R. I.		June 27, --
Magic lotion. See <i>Barbal, &amp;c.</i>		
Mineral waters, mode of imitating. Joseph Hawkins, Balt.		Sept 7, --
Metals, mode of melting. Joseph Walworth, New York		Oct 17, --
Marine time keeper. Isaac Gill, Charleston, South Carolina		Jan 15, 1810
Measuring grain, &c. P. H. Schenk, New York	-	Feb 15, --
Mortising machine. H. Parmele, Killingworth, Connecticut		Feb 15, --
Mortising machine. Sylvanus Baldwin, Montpelier, Vermont		March 17, --
Mortar, machine for making. Daniel Hunt, Stamford, Conn.		March 22, --
Mill, screw grist. Joseph L. Miller, Brookfield, New York		March 28, --
Marble, machine for cutting and chiselling, &c. Anson Clark, West Stockbridge, Massachusetts	- -	April 10, --
Mills, mode of constructing. J. Frisbie, Pennsylvania	-	June 30, --
Moulds for casting boxes for carriages. Samuel Smith, 2nd. Amherst, Massachusetts	- -	July 6, --
Mills. J. Goulding, Leicester, Massachusetts	- -	March 1, 1811
Mill stones, machine for dressing. C. Woolverton and Benja- min Ridgeway, jun. Morrisville, Pennsylvania	- -	May 25, --
Marble, machine for sawing and polishing. Luther Bissel, Ot- sego, New York	- -	June 7, --
Medicine cases. Allen Harrington, Otsego, New York	-	July 16, --
Mill stones. William Miller, Lampeter, Pennsylvania	-	Aug 15, --
Metallic boxes for shieves. L. Larrabee, Nantucket, Mass.		Nov 4, --
Mill, regulated. Joseph Quinby, Wilmington, North Carolina		Feb 3, 1812
Musical types. Ure K. Hill, New York	- -	Feb 7, --
Mill, wind and water. Moses Pennock, Kennet Square, Penn.		Feb 18, --
Mill, machine for working. J. Deveneur De Lacy, New York		March 28, --
Magnesia, preparing. William Dunn, Boston	- -	April 1, --
Mitres, machine for cutting. Z. Kelly, Easton, Maryland		April 22, --
Mills moved by weights. J. Grannis, Cheshire, Connecticut		May 12, --



Moffat's machine for boiling salt.	Zina Phinney, Cairo, N. Y.	June 18,	1812
Malting and kiln drying.	H. Parsons, Colebrook, N. H.	July 9,	--
Magnetic cylinders.	S. Browning, Franconia, N. Hampshire	Oct 13,	--
Mill wheel.	R. Lathrope, West Springfield, Massachusetts	Nov 12,	--
Mowing machine.	P. Gaillard, Lancaster, Pennsylvania	Dec 4,	--
Magnesia, preparing.	William Dunn, Boston	April 8,	1813
Mill stones, for taking the glaze off.	J. Derby, Connecticut	June 10,	--
Mill, grist.	A. Sawyer, Chester, Vermont	July 20,	--
Mill for grinding and pounding.	Alcx. D. Moore, New Haven	Aug 7,	--
Mustard, flour of.	S. Hopkins, Rathaway, New Jersey	Aug 19,	--
Mill, gudgeon.	M. Withers, Strasburg, Pennsylvania	Aug 24,	--
Mills.	E. Bryant, New London, Connecticut	Feb 8,	1814
Mowing machine.	P. Baker, Long Island, New York	Feb 19,	--
Match lights and boxes.	R. Allison and N. S. Allison, Burlington, New Jersey	March 26,	--
Mockasins and socks.	W. Bolton, Northampton, Mass.	Oct 21,	--
Mill stones, machine for raising.	Thomas Reynolds, West Falowfield, Pennsylvania	Nov 8,	--
Magnetic cylinder.	S. Browning, Franconia, New Hampshire	Nov 25,	--
Mill, tide.	F. Rittal, Lincoln, Massachusetts	Jan 28,	1815
Mockasins, hat trimmings for.	James Jackson, Burlington, N. J.	April 1,	--
Machinery for regulating power.	Joseph Kells, New York	April 1,	--
Mills, water power for working.	J. W. Newbury, Luzerne, Pennsylvania	June 28,	--
Mineral fountain, family.	G. E. Pendergast, Philadelphia	Aug 18,	--
Mould for making stone pots.	Edward Boston, Gloucester, N. J.	Oct 14,	--
Mineral waters, manufacturing.	B. Marshall, Albany, N. Y.	Dec 5,	--
Mill for grinding grain, &c.	Ormsby and T. Cohoon, Washington, District of Columbia	Jan 4,	1816
Maintaining power on board of ship.	David Pearson, Newburyport, Massachusetts	Jan 24,	--
Mills, improvement in saw.	Samuel Brewster, Middlesex, N. J.	March 15,	--
Mill tub, winnowing.	Moses Elliot, Concord, N. Hampshire	May 18,	--
Mill, tide.	Josiah Cleveland, St. Marys, Maryland	Oct 22,	--
Mill, horse.	Webb Hart, Drummondtown, Virginia	Jan 22,	1817
Mineral waters, making.	James S. Ewing, Philadelphia	Feb 10,	--
Mustard, flour of.	Samuel Hopkins, Philadelphia	May 31,	--
Mills, ink and gudgeon for.	John Andrews, Dinwiddie county, Virginia	Aug 11,	--
Mortising machine.	Nathan Mead and Jonathan Butler, Walpole, New Hampshire	Nov 3,	--
Morocco, machine for dyeing, &c.	Moses Hall, Charleston, Massachusetts	Dec 31,	--
Metallic portable bedsteads.	Joseph Homer, New York	Jan 28,	1818
Motion, machine for conveying.	William Simpson, Wilkes county, Georgia	Feb 19,	--
Mills, iron and steel.	Increase Wilson, New London, Conn.	March 6,	--
Mud machine.	Samuel Davis, Baltimore	March 28,	--
Musket barrels, machine for turning.	Sylvester Nash, Harpers-ferry	April 11,	--
Magnesia liquid.	John Cullen, Philadelphia	May 4,	--
Music arranged to books.	M. Elliot, Boscawen, Hillsboro' New Hampshire	June 9,	--
Mills for coffee, bark, seed, &c.	Burrows Smith, Cincinnati, Ohio	June 9,	--
Mill for grinding coffee, &c.	Jonathan Sizer, for Z. Waterhouse, New London, Connecticut	June 12,	--
Measuring rod, improvement in.	Daniel Stansbury, Laurel Hill, New Jersey	Oct 26,	--
Mill stones, casting faces for.	G. Manter, Londonderry, N. H.	Dec 8,	--

Motion, producing an alternate lateral.	N. Moody, Kennebec, Massachusetts	Feb 19, 1819
Mud machine.	See <i>Clearing</i> .	
Mineral waters, apparatus for making.	S. Fahnestock, Lancaster, Pennsylvania	April 23, --
Motion, mode of converting.	A. W. Foster and J. Hughes, Hempfield, Pennsylvania	April 26, --
Morocco leather, machine for dyeing, &c.	L. Hedge, Windsor, Vermont	July 22, --
Mapping machine.	James Deneale, Dumfries, Virginia	Aug 3, --
Music, improvement in teaching.	George Gieb, New York	Aug 30, --
Musical stringed instruments, producing the swell in.	C. Pomer, Philadelphia	Aug 30, --
Medicine, improvement in.	Lorenzo Dow, Hebron, Conn.	Nov 24, 1820
Mills, breasted tide, improvement in.	Henry Allen, Fayette county, Tennessee	Dec 30, --
Mantle pieces, cast iron.	Isaac Deavs, Philadelphia	Feb 21, 1821
Mercantile navigable house.	Roger Haskell, Geneva, N. Y.	July 7, --
Mud machine, improvement in the.	John Eveleth, Georgetown, District of Columbia	Aug 8, --
Mill, improvement in Barker's.	Charles Goddard, Sabine Hall, Virginia	Sept 27, --
Medicated steam bath, machine used in the.	Benj. Marshall, New York	Dec --
Mowing machine.	Jeremiah Baily, Chester county, Penn.	Feb 13, 1822
Mockasins and socks, improvement in.	William Brower, Ransselear county, New York	March 6, --
Mills, improvement in grist.	John and David Hascall, Likay, New York	March 9, --
Mills, improvement in wind, water and tide.	Peter Quidor, jr. New York	March 21, --
Mapping instrument.	Samuel Dew, Romney P. O. Virginia	April 13, --
Mills, improvement in.	Robert Burns, Mifflin county, Penn.	June 20, --
Marine rail way, improvement in the.	John Rogers, Washington, District of Columbia	June 24, --
Marble, machine for sawing.	Eben W. Judd, Middleburgh, Ver.	Aug 14, --
Mill, floating horizontal wheeled.	George H. D. Gray, Southampton, Virginia	Sept 25, --
Medicine, mode of preparing.	Samuel Thompson, Boston	Jan 28, 1823
Mineral waters.	Joseph Hawkins, Philadelphia	April 5, --
Mill stones, machine for dressing.	Leonard Norcross, Maine	May 6, --
Mail stages, construction of.	Daniel D. Eames, New York	May 8, --
Mechanical power, improvement in.	Lorin Buts, Canterbury, Connecticut	July 9, --
Mill spindle, improvement in the grist.	Wanton Rice, Athens, Bradford county, Pennsylvania	Oct 1, --
Moccasins, improvement in.	Alfred Tillotson, New York	Nov 22, --
Mail-bags, improvement in making.	Peter Laporte, Richmond, Virginia	May 5, 1824
Medicine, improvement in.	Gideon Jaques, Wilmington, Del.	July 16, --
Mead, carbonated sarsaparilla.	John L. Schieffelin, New York	July 19, --
Mill for hulling and grinding grain, &c.	John Wilson, Manlius, New York	Aug 27, --
Mill, vertical cylindrical foot.	Samuel Fowks, Catskill, N. Y.	Sept 13, --
Moccasins, shoes, &c. improvement in making.	J. J. Staples and W. H. Cornell, New York	Dec 15, --
Mile marks, improvement in.	William M. Summers, N. Y.	Jan 13, 1825
Moccasins, improvement in making.	Catharine Elliott, N. Y.	Jan 26, --
Mud machine.	J. Watchman and J. Pratt, Baltimore	Feb 18, --
Musical glasses, improvement in.	Francis H. Smith, Northampton, Virginia	April 7, --

Mowing machine. Ezra Cope and T. Hoopes, jun. Chester county, Pennsylvania	May 18, 1825
Marble grinder. Harlow J. Torrey, New York	Nov 1, --
Marble smoother and polisher. do	Nov 1, --
Mills for grinding grain, drugs, &c. Joseph Ives, New York	Dec 2, --
Mortising machine. Ezra Ripley, Troy, New York	Dec 22, --
Mashing machine, for distilleries. Warham Whitney, Rochester, New York	Jan 19, 1826
Mill, family. David Flagg, jun. Gardiner, Maine	Feb 23, --
Marble rubbing and scouring machine. Elijah Ferris, West Chester, New York	March 7, --
Mill stone, concave and convex. J. Sawyer and E. Clark, Royalstown, Massachusetts	March 18, --
Mill, mortar tub. James Parker, Gardiner Maine	March 28, --
Mortising machine, lever power. Thomas Creen, Manlius, N. Y.	April 12, --
Mill, improvement on Bicknell's grist. Moody Stockman, Hampton, New Hampshire	April 18, --
Mills, improvement in grist. F. Harris and J. Wilson, Troy, N.Y.	June 9, --
do Isaac Ryon, Bridewater, Mass.	June 29, --
Mills, improvement in grist. Jedediah Northrop, Woodbridge, Connecticut	July 31, --
Mud machine, improvement in the. Samuel Collins, N. York	Sept 26, --
Mill, improvement in the grist. Moses Mendenhall, Greensborough, North Carolina	Oct 20, --
Mill, improvement on Bicknell's grist. James Bemis, Worcester, Massachusetts	Nov 17, --
Mills in the water, gate for. Henly Potes, Christiansburg, Va.	Jan 9, 1827
Mill, improvement in the grist. Anthony Bencine, County, North Carolina	Jan 16, --
Mortising machine, bearded chisel. Silas Metcalf, Wilmington, Vermont	Jan 17, --
Mill, improvement in the grist. William Benbow, Guilford, North Carolina	Jan 19, --
Machinery used in navigation. John J. Giraud, Baltimore, Md.	Jan 31, --
Mills, improvement in the grist. Fdward Newman, Guilford county, North Carolina	Feb 6, --
Mill, improvement in horizontal wind. Origen Packard, Wilmington, Vermont	Feb 12, --
Mills, improvement in the mode of shutting the gate in. Origen Packard, Wilmington, Vermont	Feb 12, --
Moths and worms, mode of preventing in skins, &c. Samuel Storm, New York	Feb 17, --
Mill, improvement in the grist. Benjamin Overman, Greensborough, North Carolina	Feb 28, --
Mill, improvement in the horizontal wind. John Reynolds, America, New York	March 15, --
Mill and crusher, improvement in the grist. John G. Morse, Randolph county, North Carolina	March 20, --
Marine rail ways, improvement in. John Webb, New York	May 14, --
Mills for grinding grain, improvement in. Abraham Delap and Avery Coe, Guilford, North Carolina	May 31, --

## N

Nails, machine for making. S. Briggs, jun. and Son, Phil.	Aug 2, 1791
Nails, manufacturing. T. Perkins, Pennsylvania	Feb 7, 1794
Nails cut, manufacturing. J. G. Peerson, New York	March 22, --
Nails, manufacturing. Jacob Perkins, Boston	Jan 16, 1795
Nails, improvement in manufacturing. J. Byington, Conn.	Jan 15, 1796
Nails, machine for making. Peter Lachaine, Maryland	May 4, --
Nautical ventilators. See <i>Vessel</i> .	

Nails, cut, manufacturing. Peter Cliff	-	Nov 16, 1796
Nails, heading and cutting machine for. I. Garretson	-	Nov 16, --
Nails, machine for cutting. Amos Whittimore	-	Nov 19, --
Nails, improvement in manufacturing. John Bigelow	-	Nov 19, --
Nails, cut, manufacturing. George Chandlee	-	Dec 12, --
Nails, cut, improvement in manufacturing. Daniel French	-	Dec 23, --
Nails, wrought, improvement in manufacturing. D. French	-	Dec 23, --
Nails, heading, improvement in. Jared Byington	-	Dec 23, --
Nails, improvement in heading. J. Frost	-	Dec 23, --
Nails, a machine for cutting and heading. N. Reed	-	Jan 8, 1796
Nails, improvement in making Lester Fling	-	Dec 19, --
Nails, improvement in cutting and heading. James Spence	-	Feb 16, 1797
Nails, improvement in heading and cutting. Jesse Kersey	-	Feb 24, --
Nails, improvement in heading and cutting. Jonathan Nevill	-	Aug 12, --
Nails, &c. machine for making. Seth Hart	-	Jan 4, 1799
Nails, improvement in making. Jacob Herkins	-	Feb 14, --
Nails, for cutting and heading. F. Young	-	Aug 23, --
Nails, machine for making and heading. M. Garber, Lancaster county, Pennsylvania	-	Feb 20, 1801
Nails cut from iron hoops, &c. M. Garber, Lancaster county, Pennsylvania	-	May 1, --
Nails rendered tough. Nathan Kent, New York	-	May 1, --
Nails milled out of heated rods. Jesse Reed, Boston	-	June 9, --
Nails, machine for heading and cutting. W. Leslie, Claremont, New Hampshire	-	Nov 5, --
Nails, machine for cutting. Edward West, Fayette county, Ky.	-	July 6, 1802
Nails, machine for heading and cutting. E. West, Fayette county, Kentucky	-	July 6, --
Nails, machine for making. Nathan Forhes	-	Aug 2, --
Nails, machine for heading. Ben. S. Walcott	-	Sept 4, --
Neutral salts, improvement in extracting from alkaline. B. Gorton	-	Nov 29, --
Nails, machine for making. William Caruthers	-	Dec 13, --
Nails, machine for making hot wrought. Oliver Bartlett, Geo. Bartlett and Otis Bartlett	-	Feb 14, 1803
Nails and brads, machine for making out of hot rods. Lazarus Ruggles, Milford, Connecticut	-	Oct 10, --
Nails. See <i>Rolling Plates of Iron</i> .		
Nails and brads, improvement in making out of rolled iron. Jos. Elgar, Brookville, Maryland	-	Dec 16, --
Navigation, machine for the improvement of. A. Hunn, Danville, Kentucky	-	March 24, 1804
Nails, machine for slitting and heading. Michael Garber	-	April 17, --
Nails and spikes, machine for making. B. Allison and R. French	-	June 6, --
Nails, improvement in machine for cutting. Nicholas Boureau	-	Aug 21, --
Nails, machine for cutting with the grain of the metal. F. W. Geysenhayner	-	Dec 22, --
Nails, brads, &c. machine for cutting. Increase Kimball, N. H.	-	May 1, 1806
Nails, machine for cutting and heading. Jesse Reed, Boston	-	Feb 22, 1807
Nails, machine for cutting. Elisha Bigelow, Baltimore	-	April 1, --
Nails and brads, machine for. Jordan Dodge, Rutland, Ver.	-	July 8, --
Nails, machine for wrought. Jonathan Nichols, Rhode Island	-	July 11, --
Nails, machine for cutting and heading. S. Willard, Hudson, New York	-	Nov 30, --
Nails, machine for heading. Samuel Rogers, Plymouth, Mass.	-	Dec 15, --
Nails, machine for cutting. Jonathan Hicks, Hadley, Mass.	-	Jan 28, 1808
Nail machine. Joseph Jelleff, Butternuts, New York	-	June 14, --
Nails, machine for heading. Asaph C. Handler and S. Shepard, Taunton, Massachusetts	-	Sept 16, --
Navigating rivers and shoal waters. M. Williams, Albany, N. Y.	-	Feb 24, 7809
Nail machine. Jesse Reed, Lingston, Massachusetts	-	April 15, --



Nail machine. Samuel Wilmot, jun. New Haven, connecticut	April 21, 1809
Nail machine. Luther Bissell, Hartwich, New York	June 27, --
Nails, mode of casting composition. J. Walworth, New York	Nov 22, --
Nail machine. Briggs Rogers Reed, Danvers, Massachusetts	March 8, 1810
Nail machine, &c. Jacob Perkins, Boston	July 17, --
Nail machine, eccentric roller. John Fairbanks, Boston	Aug 14, --
Nail machine for cutting and heading at one operation. Briggs R. Reed, Salem, Massachusetts	Aug 18, --
Nail machine for cutting and heading at one operation. Jesse Reed, Kingstou, Massachusetts	Sept 16, --
Nail machine for cutting and heading at one operation. William Miller, New York	Sept 26, --
Nail machine for cutting and heading at one operation. I. P. Swain and J. Skinner, Roxbury Massachusetts	Feb 8, 1811
Nail machine, for wrought. A. Eastman, Norway, Mass.	April 8, --
Nail machine. E. Avery Lester, Herkimer, New York	May 8, --
Nail machine. Jesse Reed, Kingston, Massachusetts	Aug. 14 --
Nail machine. Mark and Richard Reeve, Philadelphia	Nov 14, --
Nail machine. Robert Turner, Boston	Nov 25, --
Net or seine. Samuel May, Columbia, Pennsylvania	Jan 11, 1812
Nails, machine for cutting and heading. J. White, Phil.	Jan 11, --
Nails, machine for cutting and heading. Mark and Richard Reeve, Burlington, New Jersey	Feb 3, --
Nail machine for cutting and heading. John Newalls, Nath. and Daniel Chichering, Dover, Massachusetts	March 9, --
Nails, machine for heading and cutting. Mark and Richard Reeve, Burlington, New Jersey	Oct 31, --
Nails, brass, copper, composition. G. W. Robinson, Attleborough, Massachusetts	March 17, 1813
Nails, machine for cutting and heading. M. and R. Reeve, Philadelphia	April 16, --
Nap on cloth, machine for raising. J. Mather, Barre, Ver.	May 27, --
Nail machine. William Lutgen, Marietta	Sept 8, --
Nail machine. Mark and Richard Reeve, Philadelphia	Sept 28, --
Nail machine. Richard Moore, Lycoming county, Penn.	Jan 13, 1814
Nails, machine for heading. S. Rogers, Bridgewater, Mass.	Jan 26, --
Nail, sprig, brad, machine. R. Turner, Boston	Feb 21, --
Nail cutting machine. E. A. Lester, Herkimer, New York	April 2, --
Nails, machine for heading. Jacob Davey, Fairhaven, Ver.	April 7, --
Nails, brads, &c. machine for. Stephen Belnap, Washington City	April 8, --
Nails, cutting and heading. S. Rogers, Bridgewater, Mass.	Oct 21, --
Nails, cutting and heading. Jesse Reed, Hanover, Mass.	Oct 22, --
Nails, cutting and heading. Jesse Reed, Hanover, Mass.	Dec 16, --
Nail machine. Nathan Elgar, York, Pennsylvania	June 19, 1815
Nail machine. John Elgar, York, Pennsylvania	June 21, --
Nails, machine for cutting and heading. Nathan Elgar, Yorktown, Pennsylvania	July 25, --
Nail machine. E. Bartholomew and W. Church, Boston	Aug 18, --
Nails, machine for heading. Henry Sedan, Troy, New York	Sept 6, --
Nail machine. Charles Phillips, jun. Sacketts Harbor, N. Y.	Oct 21, --
Nail machine. W. Warring and C. Philips, jun. Jefferson, N. Y.	Oct 21, --
Nail cutter, cylindrical improvement. Jacob Perkins, Newburyport, Massachusetts	Nov 1, --
Nail, brad, cutting machine. E. A. Lester, Baltimore	Dec 27, --
Nail machine. Henry Hayes, Philadelphia	Feb 24, 1816
Nail machine. F. A. Russell, Georgetown, D. C.	March 14, --
Nails cutting and heading. Mark Reeve, Philadelphia	June 26, --
Nail machine, improvement on. Mark Reeve, Philadelphia	June 27, --
Notes, bank. See <i>Mark of Opacity</i> .	



Nails, machine for cutting and heading.	T. Newhall, jun. Essex county, Massachusetts	Sept 7, 1816
Nails, machine for cutting and heading.	Israel Northorp, Oneido, New York	Jan 7, 1817
Nails, machine for heading.	Elisha Rigelow, Massachusetts	Jan 29, --
Nail cutting machine.	Roswell Noble, Baltimore	Dec 17 --
Nap on cloth, machine for raising the.	Eli Starr. Thomson, Sullivan township, New York	March 20, 1818
Nails, machine for cutting and heading.	Herman M'Cluer, Cortland county, New York	April 18, --
Nail machine for brads, &c.	Gridley Jenkins, Plymouth county, Massachusetts	May 16, --
Nail machine.	J. Kells and J. Carter, Philadelphia	June 10, --
Nail machine, improvement on.	Melville Otis, Boston	Dec 31, --
Nails, sprigs, clouts, &c. polished.	Roswell Noble, Baltimore	May 17, 1819
Nails, machine for cutting and heading.	Daniel Poole, Zanesville, Ohio	March 22, 1820
Nails, machine for cutting and heading.	Abiel Smith, Zanesville, Ohio	March 22, --
Nail machine, improvement on the.	Thomas Morgan, N. J.	Sept 5, 1821
Nail machine, improvement on Perkins' and Reed's.	George Thompson, Philadelphia	Sept 15, --
Nails, mode of securing the heads of.	William Mellus, Dorchester, Massachusetts	Aug 3, 1822
Nails, machine for cutting and heading.	Lemuel Bolles, N. Y.	Sept 19, --
Navigation, improvement in machinery for.	Joseph Godley, Alexandria, New Jersey	Feb 22, 1823
Navigation, improvement in internal.	James Renwick, N. Y.	Nov 7. --
Nails, improvement in making wrought.	Leonard Norcross, Livermore, Maine	May 18, 1824
Nail engine, improvement in the.	Thomas Morgan, Paterson, New Jersey	June 17, --
Nankeen dye, for making.	Adolphus G. Trott, New York	Feb 11, 1825
Nankeen, a buff color, mode of making.	Joseph B. Nones, Phil.	April 28, --
Nails, cutting and heading.	Jesse Reed, Philadelphia	April 22, --
Nails, machines for feeding.	do do	April 22, --
Nankeen, mode of making yellow.	Joseph B. Nones, Philadel.	April 28, --
Nails, wrought, manufacture of.	Henry Burden, Troy, N. Y.	May 26, --
Nails, spikes, &c. improvement in wrought.	Jos. Krauser, of Philadelphia	Sept 23, --

## O

Oil, whale, cleansing.	Benjamin Folger, Hudson, New York	Jan 2, 1792
Oiled silk, linen, &c. manufacturing.	Ralph Hodgson, N. Y.	Feb 1, 1793
Oil from cotton seeds.	(See)	
Oil, spermaceti, &c. purifying.	Richard Robotham	Aug 14, 1799
Oil, mode of infusing into leather.	H. Guest, New Brunswick, New Jersey	July 16, 1801
Oil press, improvement in.	Josiah White	Nov 27, 1804
Oakum, mode of manufacturing from old junk, &c.	Daniel French, Middletown, Connecticut	Oct 9, 1805
Oakum, machine for picking,	M. Morrison, Newburyport, Massachusetts	Feb 14, 1806
Oven.	See <i>Perpetual</i> .	
Oakum, mode of making.	Daniel Rider, New York	April 26, 1808
Ovens.	John West, Stafford county, Virginia	Oct 27, --
Oil, lintseed, mode of discoloring.	N. S. Parmantier, Phil.	June 30, 1809
Ovens.	John Barnett, Upper Providence, Pennsylvania	March 3, --
Ores, mode of working certain.	V. and J. King, Bellaire, Md.	May 30, 1811
Oils, mode of purifying.	Lewis Lecesne, New York	June 23, --

Oil of vitriol, apparatus for.	Richard Maben, New York	Aug 21, 1811
Oven for baking.	John Bouis, Baltimore	Dec 30, 1812
Oars, wheels for elastic.	Louis M. Latour	Feb 16, 1813
Ores, reducing to powder.	Henry Alexander, Baltimore	Oct 27, --
Ores, melting	Daniel Walworth, Middletown, Connecticut	May 27, 1814
Opacity, mark of.	J. Rich and E. Star, Philadelphia	May 11, 1816
Ointment for various uses.	Wm. Judkins, Smithfield, Ohio	June 26, --
Oar, head for steering.	Cornelius Seaman, Washington county, Maryland	May 15, 1817
Ovens, mode of constructing	E. Treadwell, Salem, Mass.	Aug 27, 1818
Organs, improvement in.	Aaron M. Peasley, Boston	Nov 11, --
Odometer for measuring distances.	J. Clarke, Powhattan county, Virginia	Nov 30, --
Oxymuriate of lime, apparatus for the.	J. Kendall, Lincoln, Massachusetts	Jan 28, 1820
Ovens for baking.	Richard Wilcox, New York	April 20, --
Oil from cotton seed.	Geo. P. Digges, Albemarle, Virginia	Dec 16, --
Oven door flue.	Benjamin Simmons, jun. Bedford, Mass.	Oct 15, 1821
Ornamenting cloth, mode of.	J. C. Wood, Philadelphia	Dec 14, --
Oil, mode of expressing.	John Hallock, Little Egg Harbor, N. J.	Jan 22, 1822
Oil, making castor.	Timothy Pharo, Tuckerton, New Jersey	Feb 5, --
Oil cloth; improvement in making.	Isaac Macauley, Phil.	April 4, 1825
Oven, revolving.	Stephen Harris, Norfolk, Virginia	Dec 5, --
Oakum, machinery for picking.	Ezekiel Waterhouse, Gardiner, Maine	April 24, 1826
Ornamenting walls, ceilings, &c.	Wm. West, Philadelphia	May 20, --
Oil, mode of extracting by steam.	David Dodge, Hamilton, Massachusetts	May 14, 1827

## P

Pantiles, making of.	See <i>Brick</i> .	
Punches for making impressions.	Francis Bailey, Philadelphia	Jan 29, 1791
Piles, driving for bridges, &c.	John Stone, Concord, Mass.	March 10, 1791
Pendulum, double, for ships.	Robert Leslie, Philadelphia	Jan 30, 1793
Pendulum, clock.	do do	Jan 30, --
Pendulum, double.	do do	Jan 30, --
Paper moulds, improvement in.	John Carnes, jun. Delaware	April 17, --
Paper, improvement in manufacturing.	John Biddis, Penn.	March 31, 1794
Pumps, water working.	E. Rigg, Pennsylvania	July 29, --
Pills, bilious, composition of.	Samuel Lee, jun. Connecticut	April 30, 1796
Paste.	See <i>Dough</i> .	
Piano forte, improvement in the.	James S. McLean	May 27, --
Plants, preservation of.	George Morris, Philadelphia	July 10, --
Pumps, improvement in.	Theobald Bourke	Nov 16, --
Printing press, improvement in a.	Apollos Kinsley	Nov 16, --
Preambulator for measuring a ship's way.	Amos Whittemore	Nov 19, --
Points to remove pains, &c.	E. Perkins, Connecticut	Feb 19, 1797
Pumps, improvement in boring.	Caleb Leach	April 13, --
Pills, anti-bilious.	Benjamin Duvall	May 3, --
Ploughs, improvement in.	Charles Newbold	June 26, --
Pipes and pumps.	See <i>Water</i> .	
Printing paper, leather, &c. a machine for.	John Dixey	Jan 24, 1798
Pump, an oblique.	Jonathan Hunt	June 7, --
Paper manufacturing, improvement in.	Cyrus Austin	Dec 14, --
Pills, a composition for.	Samuel Cooley	June 6, --
Pills, bilious.	Samuel H. P. Lee	June 26, 1799
Pumps for ships, mines, &c.	John Stickney	Nov 29, --
Paper, manufacturing of.	Robert R. Livingston	Oct 28, --
Pump, universal.	Apollos Kinsley	Oct 28, --
Pills, Hawks'.	John Hawks	Dec 14, --

Piano forte, improvement in.	John J. Hawkins	Feb 12, 1800
Painters' colors, mode of grinding.	See <i>Mill for do.</i>	
Potash, mode of manufacturing.	Thomas Power	Sept 19, 1801
Paper made of curriers' shavings.	J. Condict, jun. Newark, New Jersey	Dec 28, --
Faddles for propelling boats, improvement in.	R. Claiborne, Monongalia county, Virginia	Feb 23, 1802
Potatoes.	See <i>Starch made from.</i>	
Pumps, improvement in.	Jacob Perkins	July 9, --
Pressing cotton, machine for.	J. Idler, Washington City	Sept 24, --
Paper manufactured from corn husks.	Burgess Allison and John Hawkins, Burlington, New Jersey	Dec 30, --
Pentagraph and parallel ruler.	J. J. Hawkins, Bourdenton, New Jersey	May 17, 1803
Pumping, machine for.	John Clark, Hudson, New York	May 19, --
Physiognotrace.	Isaac Todd, Augustus Day and Wm. Bache	June 15, --
Packing goods, machine for.	J. Clark and E. Evans, Hudson, New York	July 20, --
Pipes, leaden and others, secured from frost.	David Lownes, Philadelphia	July 21, --
Powder mill, improvement in.	George Keyser	July 27, --
Pills, family.	Daniel Coit, St. Albans	Oct 5, --
Pump.	See <i>Bellows dry.</i>	
Propelling boats, for inland navigation, improvement in.	Wm. Bell, Camden, South Carolina	Nov 25, --
Painting rooms, improvement in.	John Selby, Baltimore	Dec 30, --
Pumps.	See <i>Air and Bellows.</i>	
Paper mills, improvement in.	Thomas Longstreth, Philadelphia	May 1, 1804
Pump boxes, improvement in the construction of.	J. Stickney, Baltimore	May 1, --
Pot and pearl ashes, furnace for making.	Edward Crafts, jun. Geneva, New York	May 12, -
Pumping.	See <i>Water.</i>	
Plough, improvement in.	John Deaver	July 12, --
Plaster mill.	Emanuel Kent	Sept 14, --
Physiognotrace.	Daniel Atherton, Richmond, Virginia	May 4, 1805
Posts of clay for fencing, mode of making.	William Cooley, Bolton, Connecticut	May 27, --
Planing by machinery.	John Bennock, Boston	June 1, --
Polychrestum.	See <i>Sulphate, &amp;c.</i>	
Picking oakum.	See <i>Oakum.</i>	
Planing machine.	Joseph Hawkins, Philadelphia	Feb 19, 1806
Planing machine.	See <i>Joining.</i>	
Propelling boats up rivers by cranks and setting poles.	John Haven, Montgomery, Virginia	April 17, --
Pantiles.	William Harwood, Richmond, Virginia	July 3, --
Paint.	See <i>Yellow.</i>	
Perpetual oven.	James Dencal, Dumfries, Virginia	Dec 4, --
Paper trimmer.	Parke Shee, Philadelphia	Feb 7, 1807
Pendulum screw.	Lewis Dupie, Charleston, South Carolina	April 1, --
Plough, improvement in.	David Peacock, Burlington, N. J.	April 1, --
Propelling boats, &c. by oars.	James A. Pearce, Louisville, Kentucky	April 1, --
Paper, machine for making.	Charles Kinsey, Essex, N. J.	May 8, --
Piano forte, improvement in.	Ralph Shaw, Boston	July 2, --
Pills, machine for making.	Webster Lewis	July 10, --
Pastes, mode of making Italian maccaroni, vermicelli, &c.	John B. Sartori, Philadelphia	July 13, --
Planing hats, machine for.	Joseph Pitkin and Timothy Kim- ball, Hartford, Connecticut	Oct 19, --
Plough, improvement in.	Hezekiah Harris, Bullet, Kentucky	Feb 24, 1808

Pump, improvement in. Daniel Watson, Plymouth, Mass.	March 4, 1808
Propelling. See <i>Boats</i> .	
Pump. See <i>Forcing</i> .	
Propelling boats, machine for. W. Wadsworth, Hartford, Conn.	March 15, --
Pendulum power for machinery. J. Tallman, Albany, N. Y.	March 31, --
Press screw. Thomas Cahoon, Washington	April 14, --
Paper. See <i>Smoothing</i> .	
Pearl ash, mode of making. Ruben Answorth	May 16, --
Pumps, improvement in. William Rhodes, New York	May 26, --
Pressing machine. R. Peirpoint Cunningham, Pomfret, Conn.	May 21, --
Press. See <i>Double Lever</i> .	
Propelling boats across rivers by the current. Samuel Stilwell, and Daniel S. Wandall, New York	June 3, --
Pressing and boring machine. Robert Ramsey, New Hampshire	July 9, --
Pressing straw or chip hats, machine for. Samuel Prince, N. Y.	Aug 31, --
Pump bellows for furnaces, &c. Isaiah Jennings, New York	Sept 20, --
Pigment black for printing ink, &c. J. Cist, Wilkesbarre, Penn.	Oct 23, --
Plough, improvement in. Richard B. Chenoweth, Baltimore	Nov 25, --
Plaster of Paris, mill for breaking. William Brown, Baltimore	Dec 8, --
Pipes or tubes, mode of casting. Williard Badger, Boston	Dec 26, --
Pneumatic forcing pump. Phiny Upham, Brookfield, Mass.	Jan 6, 1809
Pumps. Abraham Horn, Easton, Pennsylvania	Jan 6, --
Pounding rice, machine for. A. D. Moore, New Hanover, N. C.	Jan 19, --
Pot ash. See <i>Lye</i> .	
Paper, mode of making from alga. S. Green, New London, Conn.	Feb 15, --
Paring apples, machine for. Williard Badger, Boston	Feb 16, --
Pendulum mills. Isaac Cobb, Walpole, New Hampshire	March 1, --
Planting machine. John Beecher, Lycoming county, Penn.	March 18, --
Pounding. See <i>Rice</i> .	
Pump, mechanical. William Schultz, Baltimore	June 24, --
Press. See <i>Washing</i> .	
Pumps. Jacob Canfield, Morristown, New Jersey	June 28, --
Pendulum lock. Samuel Goodwin, Baltimore	July 7, --
Paper moulds. See <i>Wire Work</i> .	
Pipe or grate heater. See <i>Boiler</i> .	
Pruning shears. Simon Jocelin, New Haven, Connecticut	July 13, --
Planting plough. Frederick Woodward, New Lisbon, N. Y.	July 18, --
Pump, uniform working. James Josslyn, Hanover, Mass.	July 25, --
Planing boards. Christian Ritter, Beaver, Pennsylvania	Aug 11, --
Press for cheese, &c. Israel Nichols, Otsego, New York	Oct 12, --
Planing machine. Joseph Coppinger, Beaufort, S. C.	Oct 31, --
Preserving animal and vegetable substances. Joseph Coppinger, Beaufort, South Carolina	Nov 23, --
Pen, metallic writing. Peregrine Williamson, Baltimore	Nov 22, --
Pump, double bored pendulum. A. Fana, Montgomery, Penn.	Dec 5, --
Pump, balance wheel. Lewis Schrach, Norristown, Penn.	Dec 8, --
Plating gun barrels, &c. John Fowler, Lancaster, Penn.	Jan 4, 1810
Plating horn combs. John P. Spies, Baltimore	Jan 8, --
Protractor, universal. Ennion Williams, Philadelphia	Jan 19, --
Printing press. J. P. Sawin and T. B. Wait, Boston	Feb 1, --
Pendulum scale. Moses L. Morse, Cambridge, Massachusetts	Feb 21, --
Propelling machine. Abraham G. D. Tuthill, New York	Feb 22, --
Pressing machine. R. V. W. and J. Thorne, New York	March 26, --
Pump, horizontal. Luther Holland, Belchertown, Mass.	March 28, --
Perpetual. See <i>Still</i> .	
Pressing cloths. Joseph Sage, Berlin, Connecticut	April 14, --
Pricking leather, machine for. Robert U. Richards and Mills Richards, Norfolk, Connecticut	April 24, --
Pumping machine. Royal Yeamans, Springfield, Mass.	May 23, --
Pendulum machine. Joseph Lefever, Providence, R. I.	June 13, --
Printer's ink. Ben. Chase, New London, Connecticut	June 23, --

Pump, Chinese chain. Jeremiah Black, Northumberland, Penn.	Aug 2, 1810
Press, windlass lever. T. Williams, Philadelphia	Aug 31, --
Press, double screw. Elisha Winter, New Orleans	Sept 4, --
Printing paper and calico. Leonard Beatty, Wilkesbarre, Penn.	Dec 28, --
Pump. See <i>Steam</i> .	
Printing press. John P. Sawin and T. B. Wait, Roxbury, Mass.	Jan 28, 1811
Pressing cloths with plates. Volkert Vedden, Amsterdam, N. Y.	Feb 6, --
Pump, double forcing. William Beach, Franklin county, N. Y.	Feb 19, --
Propelling boats by horses, &c. S. Fuller, Clerk county, Ind.	Feb 19, --
Pump, double forcing. T. Ferris, Dutchess county, New York	Feb 20, --
Plat, straw. William Pond, Wrentham, Massachusetts	Feb 28, --
Paddles. See <i>Chain</i> .	
Pump, double forcing. Levi Gray, Otsego, New York	March 7, --
Pump. Pliny Upham, Brookfield, Massachusetts	March 9, --
Pendulum steam engine. John Staples, Richmond, Virginia	July 18, --
Pegs for shoes. Samuel Hitchcock and John Bement	July 30, --
Pump, sea motion. Bennet Lies, New York	Aug 19, --
Plough, varying the motion of. John Sandford, Sharon, Conn.	Aug 20, --
Pump for the use of ships. Andrew Kenshaw and Nathan Harlow, jun. Bangor, Massachusetts	Aug 30, --
Plough. Nicholas Turbet, Fredericktown, Maryland	Sept 7, --
Pump. Luther Holland, Belchuston, Massachusetts	Sept 10, --
Pleasant spinners. Daniel Reed, Brookfield, New York	Sept 10, --
Press for pressing cotton, hay, &c. Moses Jaques and Henry Freeman, Woodbridge, New Jersey	Oct 2, --
Pendulum mill. Solomon Thayer, Braintree, Massachusetts	Oct 9, --
Press, wooden screw for cotton. Jacob Pierson, Knoxville, Tennessee	Oct 17, --
Posts, machine for boring. Anthony Butler, Vermont	Nov 7, --
Portable kitchen. James Trueman, Philadelphia	Dec 3, --
Pump. Jonathan Evans, Whitestown, New York	Jan 6, 1812
Plough. John Klay, Frederick county, Maryland	Jan 11, --
Plough. Roswell Tousley, Cayuga New York	Jan 11, --
Press, increasing. Abraham Norton, Litchfield, Connecticut	Feb 11, --
Pump and fire engine. Isaiah Jennings, Philadelphia	April 1, --
Plaster of Paris, breaking. Paul Geiger, Robison, Berks county, Pennsylvania	May 12, --
Propelling boats. William Shaw, Otsego, New York	June 5, --
Pressing and straining oil, &c. John Cunningham and Samuel S. Edmonston, New York	June 29, --
Plumets of lead. Thomas Weston, Peacham, Vermont	June 26, --
Pump, cog and pendulum. Bennet Lies, New York	Aug. 6, --
Propelling boats and vessels, &c. Alexander Anderson, Phil.	Aug 21, --
Propelling boats by sculling. Isaac Siluman, Philadelphia	Dec 17, --
Pendulum mill. William Grandin, Hector, New York	Jan 6, 1813
Pitch forks. Jared Byinton, Hinesborough, Virginia	Jan 12, --
Preparing colors and paints. Henry Alexander, Baltimore	Jan 14, --
Plough. John Sietz, Strasburg, Pennsylvania	Feb 8, --
Printing press and mode of distributing the ink. William Elliot, Washington, District of Columbia	Feb 17, --
Printing press. Z. Mills, Hartford, Connecticut	Feb 26, --
Planing machine. W. Badger, Madison county, Mississippi Territory	March 2, --
Perpetual wool spinner. Burgess Allison, Burlington, N. J.	March 3, --
Pumps. Jacob Perkins, Newburyport, Massachusetts	March 23, --
Press for hay. Richard V. W. Thorn, New York	April 29, --
Perspective drawing mechanically. S. De Witt, Albany, N. Y.	April 30, --
Plane irons, manufacturing. Daniel Pettibone, Philadelphia	May 6, --
Plough, bull. Sylvanus Tousley, Onandago, New York	May 28, --
Plough. Mathew Patrick, Scipio, New York	June 2, --
Press. Silas Hitchcock, Vernon, New York	June 25, --



Printing press. Jacob Perkins, Newburyport, Massachusetts	June 29, 1813
Printing press. Daniel Pierson, Newburyport, Massachusetts	July 16, --
Pumps. Thomas Nicholson and Samuel Gunn, Genoa, N. Y.	Aug 6, --
Plough. Mathew Murray, Middletown, Maryland	Aug 7, --
Plough. Horace Pease, Enfield, Connecticut	Aug 28, --
Press. Samuel S. Edmonston, New York	Sept 1, --
Paper hanging. Hezekiah Steel, Hudson, New York	Sept 8, --
Pump for elevating grain. J. Ewing and D. Dickey, Oxford, Pennsylvania	Oct 2, --
Planing machine. William Kimball and Samuel Willard, jun. Mount Vernon, New Hampshire	Oct 23, --
Propelling boats by levers, &c. John T. Schenck, New York	Oct 23, --
Paint, iron made into. B. Wilbor, Whitestown, New York	Feb 10, 1814
Proof for ardent spirits. Benjamin Miller, New Salem, N. Y.	Feb 21, --
Potatoes, machine for grinding. Jesse King, Florida, N. Y.	March 1, --
Plough, bar share John and Joshua Butler, Chester county, Pennsylvania	March 1, --
Paper, pelts used in making. John M. Thorndike	March 7, --
Pegs, attaching leather with. S. B. Brown, West Chester, N. Y.	April 2, --
Pipes, making lead. Alpheus Tod, Oxford, New Hampshire	April 18, --
Paints, grinding. Peter Bristead, Green county, New York	April 18, --
Ploughs. J. Wood, Scipio, New York	July 1, --
Ploughs, Jonathan Swan, Scipio, New York	July 5, --
Pounding rice, &c. Asa Nourse, St. Lukes, South Carolina	July 5, --
Pins, machine for making. Moses L. Morse, Boston	Aug 22, --
Plough. J. Morgan and J. B. Harris, Scipio, New York	Oct 11, --
Pins and needles, making. William F. Hill, New York	Oct 15, --
Preserving animal and vegetable substances, &c. D. Cooley, New York	Oct 24, --
Plough, bull. Roswell Tousley and J. Swan, New York	Nov 9, --
Plough. Henry Shultz, Lancaster, Pennsylvania	Dec 17, --
Packing, machine for. Joseph Lyon, Philadelphia	Jan 15, 1815
Paint, mode of making brown. T. Miller, jun. Madison county, New York	Jan 25, --
Press, cider mill. Ozias Pettibone, Hartford, Connecticut	March 1, --
Perspective protractor. Bass Otis, Philadelphia	March 14, --
Pump, double air and water. James Smallman, Philadelphia	March 27, --
Pin lathe for buttons. William Lawrence, Menden, Conn.	April 12, --
Pressing machine. Timothy Puffer, Paris, New York	May 23, --
Pedometer, sea. Bennet Lies, New York	June 20, --
Paper, machine for printing and staining. B. Mesteyer, N. Y.	June 28, --
Pump, double air. James Smallman, Philadelphia	Aug 29, --
Pendulum machine. C. L. Allen, Newark, New Jersey	Oct 13, --
Printing books. Samuel Randall, Warren, Rhode Island	Jan 4, 1816
Pneumatic machine. David Lloyd, Cambria, Pennsylvania	Jan 7, --
Plough, corn dressing. Elisha Bean, Massachusetts	March 4, --
Plaiting ruffles. S. W. Talbot, Dedham, Norfolk	May 5, --
Paper, heating the pulp for. J. Robison, Montgomery, Penn.	May 22, --
Propelling vessels in a calm. Stephen Rudd, New York	June 14, --
Pump. Edward B. Scammon, Scipio, New York	June 20, --
Piano forte. George Charters, New York	July 8, --
Press, steam. E. Barker and John and Aaron Hall, Boston	July 12, --
Pontoons, construction of. Henry Carbery and Wm. Tathan, Washington	July 19, --
Pulverator. Nathan Jones, Boston	July 23, --
Plough, machine for drawing. Luke Johnson, Leominster, Massachusetts	Aug 6, --
Piston. Peter A. Brown, Philadelphia	Oct 9, --
Plough, double. John Cromwell, Roysterstown, Maryland	Oct 23, --
Posts for chairs. Elijah Farrington, New York	Oct 26, --
Paper, making. Thomas Cilpin, Philadelphia	Dec 24, --

Pipes, conduit.	Elisha Putnam, Albany, New York	Dec 31, 1816
Pump, elliptic valve.	James Baker, Charleston, Massachusetts	Jan 16, 1817
Paints and colors, impressing.	Lewis J. B. Wells, Philadelphia	Jan 24, --
Pump.	Daniel W. Christman, New York	Feb 8, --
Propeller, sub-marine.	John L. Sullivan, Boston	March 24, --
Pumps.	John M. Dearborn, Boston	May 3, --
Pumps.	Thomas Nicholson, Washington City	April 29, --
Pump, single valve.	Isaac Scott, Boston	May 2, --
Pump.	William P. Tilton, Boston	May 6, --
Pump.	James Baker, Boston	May 9, --
Pump, horizontal circular valve.	Eben. Lemon, Boston	May 23, --
Plough.	David Peacock, New Mills Post Office, New Jersey	May 29, --
Plough; angular.	John Lupton, Virginia	July 31, --
Pump.	John C. Helm	Aug 1, --
Propelling vessels.	Joseph Cerneau, New York	Aug 28, --
Pumps.	Luke M. and Mark Loughton, Portsmouth, N. H.	Sept 1, --
Propelling vessels by animal power.	J. P. Durand, New York	Oct 3, --
Pumps.	Spencer Thomas, Boston	Oct 10, --
Pumps.	William Purcell, New York	Nov 1, --
Propelling boats by animal power.	Anthony Olney, Canton, Massachusetts	Dec 11, --
Perpetual ovens, improvement on Deneal's.	W. T. Hunter, New York	Jan 8, 1818
Plugs and bungs, machine for cutting.	A. Donaldson, Salem, Massachusetts	Jan 15, --
Pen, instrument for holding.	Henry Smith, Georgetown, D. C.	Jan 15, --
Propelling boats, mode of.	J. P. Durand, New York	Jan 17, --
Polishing powder.	Holmes Greenwood, Providence, R. I.	Jan 28, --
Pump, improvement in.	Daniel Updike, New York	Feb 19, --
Propelling boats.	Joseph Cerneau, New York	March 6, --
Planing boards, &c. machine for.	J. Baldwin, Westfield, Mass.	March 7, --
Pumps.	F. Harrison, Easton, Pennsylvania	March 16, --
Propelling boats.	Moses Isaacs, Philadelphia	March 17, --
Propelling boats.	M. Ulman and Moses Isaacs, Philadelphia	March 17, --
Paper, machine for preparing rags for.	B. Cox, Northampton, Massachusetts	March 28, --
Propelling boats.	John James Giraud, Baltimore	April 10, --
Propellers for ships.	John L. Sullivan, Boston	April 28, --
Propelling boats, machine for.	R. L. Deprest, New York	May 5, --
Pluribus unum.	H. Clerc and P. Ricardi, New York	May 25, --
Pump or suction machine.	John Edwards, Urbana, Ohio	May 25, --
Plough.	Gideon Davis	May 26, --
Plaster, machine for breaking.	A. Fettrow, York, Penn.	May 28, --
Painting fret, &c.	John Mackay, New York	May 28, --
Printing press.	Adam Ramage, Philadelphia	May 28, --
Propelling boats.	Thomas Kearsing, New York	June 6, --
Plough.	Samuel Ogle, Graceham, Frederick county, Maryland	June 9, --
Pump.	William Hendrick, New York	June 12, --
Pumps, wing valves for.	William Francis, Boston	July 11, --
Piano fortes, improvement in.	J. A. Gittwaldt, New York	Aug 27, --
Propelling boats, improvement in.	Henry Farmham, Albany, New York	Sept 5, --
Plough, improvement in.	Perry Miller, Cambridge, New York	Oct 26, --
Plough shares, improvement in rolling out.	Joseph Potts, Montgomery county, Pennsylvania	Nov 7, --
Propelling boats, improvement in.	Abraham Taylor, N. Y.	Nov 18, --
Propelling boats, improvement in.	J. Gray, Peekskill, N. Y.	Nov 18, --
Propelling boats, improvement in.	A. Bartholomew, Albany, New York	Dec 1, --
Plough, improvement in the.	Lemuel Goodrick and John Adams, Hudson, New York	Dec 3, --

Plough, improvement in the.	Richard Nichols, Harrison, N. Y.	Dec 19, 1816
Paint, machine for grinding.	E. Skinner, Sandwich, N. H.	Dec 28, --
Plough, improvement in the.	G. D. Avery, Wood county, Va.	Dec 28, --
Propelling boats by the screw power.	H. W. Wheatley, N. Y.	Dec 30, --
Plough, improvement in the.	Stephen M'Cormick, Fauquier Court House, Virginia	Feb 3, 1819
Propelling boats, &c.	Wm. J. Lewis, Virginia	Feb 3, --
Printing press.	John J. Wells, Hartford, Connecticut	Feb 8, --
Pump.	James Barron, Norfolk, Virginia	Feb 20, --
Press, progressive lever.	Jacob Perkins, Philadelphia	Feb 27, --
Printing press, improvement in the.	B. Allison and William Elliot, Washington, District of Columbia	March 11, --
Plough, improvement in the.	Zadock Harris, Hartford, Washington county, New York	March 17, --
Propelling boats.	James Lyon, Statesburgh, South Carolina	April 3, --
Propelling boats, &c. improvement in.	D. Cooke, N. J.	April 16, --
Pencils, composition for making.	Joseph Ellis, Dedham, Mass.	April 26, --
Pump, improvement in.	J. L. Munson, N. H. Connecticut	April 26, --
Pressing straw bonnets, machine for.	Preston Whiting, Hopkington, Middlesex county, Massachusetts	June 11, --
Plough, improvement in the.	Abraham and J. Tice, Union Village, New York	Aug 21, --
Plough, improvement in the.	J. Wood, Poplar Ridge, Cayuga county New York	Sept 1, --
Pronunciation, mode of teaching.	Jacob A. Cummings, Boston	Nov 3, --
Plough.	C. Bergen, New York	Nov 11, --
Pump.	Robert Gray, Milton, Pennsylvania	Nov 11, --
Plough.	J. Swartwout, Taghkanie, Col. county, New York	Nov 13, --
Paper, machine for making.	John B. Pignatelli, New York	Dec 2, --
Posts, see a machine for boring.	J. Corbett, West Hanover, Pennsylvania	Dec 21, --
Pump, double forcing.	W. Baker, Springfield, Otsego county, New York	Dec 31, --
Plough, improvement in the.	Philip Marshall and Jacob B. Smith, Lambertsville, New Jersey	March 3, 1820
Pump, wind power.	Heman Bronson, Litchfield, Connecticut	March 8, --
Plough, improvement in the.	George Gibbs, New York	March 8, --
Privies, improvement in.	Marc Marie Duplat, Charleston, S. C.	March 16, --
Propelling boats, machine for.	W. R. Loweree, Queens county, New York	March 29, --
Pump, improvement in the double forcing.	S. Gillet, Hartford, Connecticut	April 6, --
Planetarium, or heliogeastrum.	Theodore Newall, Poultney, Vermont	April 12, --
Propelling boats.	John J. Giraud, Baltimore	April 19, --
Pump, suction.	Levi Gray, Springfield, New York	May 9, --
Propelling boats by setting poles.	Robert Kenny, Augusta county, Virginia	June 7, --
Pressing cotton, machine for.	John Graham, China Grove, S. C.	June 17, --
Ploughs.	John W. Jenkins, Hudson, New York	July 6, --
Propelling boats.	Jacob Coon and Benjamin Hyde, Hartford, New York	July 11, --
Power, gaining by cog wheels, &c.	Chas. Redheffer, Phil.	July 11, --
Plough.	John S. Wright, Greenwich, New York	July 23, --
Plough.	R. and E. A. Stevens, Hoboken New Jersey	Sept 20, --
Power loom, improvement in the.	Wm. Gilmour, Smithfield, Rhode Island	Oct 28, --
Pans, burning and baking.	William Burtis, New York	Nov 7, --
Plough, improvement in the.	Charles Wood and Gilbert Brundage, Blooming Grove, New York	Nov 9, --
Propelling vessels, machine for.	John James Giraud, Baltimore	Nov 22, --

Pegs, making wooden.	Thomas Rowell, Hartford, Vermont	Nov 24, 1820
Plough, improvement in the cast iron.	John Stevens and John Fay, Rockingham, Vermont	Dec 14, --
Propelling vessels, machine for.	John James Giraud, Baltimore	Jan 3, 1821
Ploughing, a shifting share for.	John Wood, Castleton, N. Y.	Feb 1, --
Printing, mode of bronzing.	George John Newberry, N. Y.	Feb 1, --
Propelling vessels by wheels, in calms.	B. S. Doxey, U. S. Navy	Feb 9, --
Press, lever.	Thatcher Blake Turner, Maine	Feb 21, --
Planting Indian corn, machine for.	A. C. Flushing, Queen's county, New York	March 20, --
Press, spiral lever.	A. O. Stansbury, New York	March 21, --
Printing press, improvement in the.	A. O. Stansbury, N. Y.	April 7, --
Ploughs, improvement in cast iron.	Robert L. and E. A. Stevens, Hoboken, New York	April 23, --
Ploughs, hardening part of the edge of the share of.	Robert L. and E. A. Stevens, Hoboken, New York	April 23, --
Printing press, improvement in the.	Samuel Rust, New York	May 11, --
Planes, improvement in carpenter's.	R. Wellford and Joseph H. Deas, Philadelphia	May 14, --
Pulverising wood, &c.	Alexander Tolson, Georgetown, D. C.	June 2, --
Plough, improvement in the cast iron.	George G. Ring, Redhook, N. York	June 23, --
Printing and staining silks.	Thomas and William Bryan, N. Y.	June 29, --
Plough, improvement in the cast iron.	O. Seely, Pottstown, Pennsylvania	Aug 27, --
Plough, improvement in the cast iron.	Wm. Falconer, N. Y.	
Plough, improvement in the.	Oliver Phelps and G. Moorehouse, Lansingburgh, New York	Nov 17, --
Plough, improvement in the cast iron.	David Hitchcock, N. Y.	Dec 29, --
Pick-axe, improvement in the.	Luke Baker, Putney, Windham county, Vermont	Jan 15, 1822
Plough, improvement in the.	David Peacock, Northampton, New York	Jan 21, --
Plough, improvement in the.	Wm. G. Shuart, Orange county, New York	Feb 5, --
Pantaloons and waistcoats, making.	Charles Herwick, N. Y.	Feb 8, --
Plough, cast iron.	Josiah Dutcher, Durham, New York	Feb 12, --
Plough, cast iron.	George W. Hawkins and Horace Emery, Windsor, Vermont	Feb 16, --
Pressing machine.	Philip Freeman, Perth Amboy, N. J.	Feb 20, --
Press frame, standing.	Bejamin F. Brown, New York	March 2, --
Plough for hoeing, &c.	Col. George Gill and George Gill (B. S.) Chester District, South Carolina	March 25, --
Punching holes, machine for.	John Sarchet, Philadelphia	April 2, --
Printing press, improvement in the.	Peter Smith, New York	April 6, --
Pails, machine for making.	Reuben Hyde, Winchester, Mass.	April 19, --
Ploughs, improvement in.	John Gibson, Montgomery county, New York	May 2, --
Paper, machine for making.	John Ames, Springfield, Mass.	May 14, --
Percussion gun, improvement in the.	Joshua Shaw, Philadel.	June 19, --
Plough share, improvement in the.	Baily Carpenter, Somers-town, New Jersey	July 1, --
Pipes, leaden, for aqueducts.	Richard Ward, Waterbury, Conn.	July 5, --
Plough, improvement in the.	Abijah Lee, West Chester, N. Y.	July 22, --
Pessaries, improvement in.	Duke Baker, New York	Sept 12, --
Plough, improvement in the.	Joseph Woolly, Troy, New York	Sept 14, --
Pianos, detached sounding board for.	James Stewart, Boston	Nov 14, --
Plough, improvement in the.	Peter J. Clute, Schenectady, N. Y.	Nov 16, --
Planking vessels, improvement in.	J. Thomas, Washington, D. C.	Dec 2, --
Plough, improvement in the.	Jacob Schoomaker and Jacob Dolson, the former of Ulster and the latter of Dutchess county, New York	Dec 7, --



Plough for covering corn, &c. improvement in the. T. Williams, Pittsylvania, Virginia	Dec 19, 1822
Plough, improvement in the. Ryland Rodes, Albemarle county, Virginia	Feb 25, 1823
Printing, improvement in the art of. William M. Dodge, N.Y.	March 6, --
Pipe, mode of making stove. Caleb Jones, Vermont	April 5, --
Percussion guns and pistols. Joseph Finch, New York	April 12, --
Piston and valve cock. John Lacy, Philadelphia	May 6, --
Pump, improvement in the forcing. J. Paddleford, N. Y.	May 6, --
Plough, improvement in the. J. Weaver, Washington, D. C.	May 8, --
Pipe, manufacturing plated lead. Thomas Ewbank, N. Y.	May 9, --
Press, printing. Adam Ramage, Philadelphia	May 19, --
Plough, improvement in the. George Nixon, New York	June 2, --
Plough, improvement in the. David Hitchcock, New York	July 16, --
Pin machine, improvement in the. Henry Western, Phil.	July 23, --
Ploughs, cutters, points, &c. for. David K. Jones, Palmyra, New York	July 29, --
Plough, improvement on Bergen's self-sharpening. Waldren Beach, Philadelphia	Aug 26, --
Plough, Hackney's. Obediah Hackney, Ohio	Aug 29, --
Pump, "forcing and suction." Joshua Clark, Vermont	Sept 11, --
Plough, improvement in the. John Nash, Talmage, Portage county, Ohio	Oct 14, --
Pneumo-hydraulic engine. Richard Willcox, New York	Nov 1, --
Protractor, rectangular. Nathaniel Goodwin, Hartford, Conn.	Dec 24, --
Pulverizing engine for drugs, &c. Isaac Eddy, Boston, Mass.	Dec 31, --
Plough, improvement in the cast iron. William C. Pancost, Addison, Vermont	Jan 29, 1824
Plough, improvement on Jethro Wood's. Solomon Austin, Sempronius, New York	Feb 27, --
Power produced without the aid of steam. Samuel Brown, London, England	March 2, --
Pulverizing machine. Isaac Eddy, Boston	March 19, --
Pressing tobacco. Jehu Gallaway, Baltimore	April 2, --
Plough, improvement on the self-sharpening. Waldren Beach, Philadelphia	April 9, --
Plough, improvement in the cast iron. Thomas Allison, Newton township, Sussex county, New Jersey	April 16, --
Pumps, improvement in the suction. Daniel Johnson, Boston	April 21, --
Plough, improvement in the cutter of the cast iron. Jonathan Swan, Cayuga county, New York	April 24, --
Pressing cotton, machine for. Franklin Shaler, Georgetown, Ohio	May 5, --
Plough, improvement in the cast iron. Ross Winans, Vernon, New Jersey	May 11, --
Planking vessels, improvement in. William Scarbrough, Darien, Georgia	May 19, --
Propelling, machinery for. William C. Sullivan, Jefferson county, Indiana	June 5, --
Piano forte, being in a longitudinal bar for. John Dwight, Bos.	July 29, --
Plough, improvement in the cast iron. D. Chase, A. Gregg, and J. Gregg, Palmyra, New York	Aug 4, --
Propelling boats, &c. Benjamin F. Joslin, Schenectady, N. Y.	Aug 21, --
Paper, manufacturing. Isaac Burbank, Worcester, Mass.	Sept 8, --
Plough, improvement in the cast iron. Nathaniel Gillet, jun. Talmage, Ohio	Sept 24, --
Plough, improvement in the. A. Spicer, jun. and Jonas Tower, Portage county, Ohio	Sept 25, --
Poppy seed, mode of obtaining oil from. Daniel Markham, Lenox, New York	Dec 2, --
Pump, improvement in the. James Y. Hunt, Tunbridge, N. Y.	Dec 24, --



Plough, improvement in the bar, the wing, &c. Garland Elington, Madison county, Alabama	Dec 25, 1824
Pump, forcing. Samuel Currey, Williamson county, Tenn.	Jan 3, 1825
Pan and furnace for evaporating liquids, &c. Augustus Colb, Steubenville, Ohio	Jan 14, --
Preserving animal substances, E. Daggett and T. Kensett, New York	Jan 19, --
Pharmaceutic composition. John C. Bay, Mount Pleasant, Ohio	Jan 26, --
Plough, improvement in the side hill. John Rich, jun. Troy, New York	Feb 10, --
Pegs, pointing, splitting, waxing wooden. T. Rowell, Hart- ford, Vermont	Feb 11, --
Plough, improvement in the. Phineas Pettis, Portage, Ohio	Feb 15, --
Plough, improvement in the. George D. Avery, Georgetown, District of Columbia	Feb 15, --
Pins, machine for making. L. W. Wright, Manchester, Eng.	March 12, --
Propelling levers for machinery. J. Turner, Marcellus, N. Y.	March 13, --
Plough, improvement in. George D. Avery, Georgetown, D.C.	March 25, --
Paper, polishing. George Bird, Walpole, Massachusetts	April 11, --
Pendulum power regulated by a fly wheel. Wm. M. M <sup>r</sup> Intosh and Wm. Barnheart, Aurelius, Washington county, Ohio	April 13, --
Plough, self-sharpening. Cadwallader Evans and Oliver Evans, Philadelphia	April 14, --
Pump. Jonathan Babcock, jun. Edmiston, New York	May 6, --
Pumps, beer and cider. Richard Sealy, New York	May 6, --
Plough. Stephen W. Whitman, Harpersfield, Ohio	May 7, --
Paper, books, &c. cutting. Joseph Woodhouse, Oswego, N. Y.	May 30, --
Press, water power, for cotton, &c. Josiah Durden, Washing- ton, Alabama	June 23, --
Plough. William F. Richardson, Auburn, New York	June 27, --
Pans or keelers. Amos Minor, Canillus, New York	July 20, --
Preponderating scale. Ezekiel Skinner, Camillus, New York	Aug 23, --
Plaster, called the three-fold cement. Ezra Godfrey, N. Y.	Sept 9, --
Propelling carriages by steam. Edward Clarke, New York	Sept 9, --
Plane irons. Peregrine Williamson, Baltimore, Maryland	Sept 9, --
Pans, in the manufacture. Sanford S. Perry, Troy, New York	Sept 9, --
Power wheel engine. John A. Wadsworth, Portsmouth, R. I.	Sept 27, --
Plough. Gideon Davis, Georgetown, District of Columbia	Oct 1, --
Pendulum lever. Cyrus Berry, Poughkeepsie, New York	Nov 1, --
Pressing oil. Isaac Clowes, Hampton, Virginia	Nov 3, --
Printing press. Daniel Neall, Philadelphia	Nov 15, --
Press, for cotton. David Wilkinson, New Providence, R. I.	Dec 8, --
Press for cheese pumace, &c. Lebbeus Caswell, Harrison, Maine	Dec 9, --
Press for apples, &c. Bela Churchill, Buckfield, Maine	Dec 9, --
Piano fortes, metal frames for. Alpheus Babcock, Boston	Dec 17, --
Propelling carriages. Thomas Blanchard, Springfield, Mass.	Dec 28, --
Plough. Stephen M <sup>r</sup> Cormick, Fauquier county, Virginia	Jan 28, 1826
Pumps. Silvanus Russell, Olean, Cataraugus county, New York	Feb 4, --
Pressing machine. Nathan Whitney, Augusta, Maine	Feb 15, --
Pressing machine. Joseph Wilson, Otsego, New York	Feb 17, --
Picker tub. Benjamin Holbrook, Providence, Rhode Island	Feb 21, --
Printing press, power. Daniel Treadwell, Boston, Mass.	March 2, --
Pumping vessels, power wheel for. S. Town and R. W. Oli- phant, North Granville, New York	April 8, --
Paper, vibrating cylindrical mould for making. Gardner Bur- bank, Worcester, Massachusetts	April 12, --
Plough, hill side, double nosed cast iron. John Shepherd, De Renyter, Madison county, New York	April 12, --
Pump. Theodore Brooks, Rutland, New York	April 18, --
Plough, cast iron. Thadeus Fairbanks, St. Johnsbury, Ver.	April 19, --
Plough. William Cook, Luzern, Fayette county, Penn.	April 28, --

Pumping water for propelling machinery. Liscomb Knap, Brighton, New York	May 22, 1826
Pumping water for domestic purposes. do.	May 22, --
Press for cider, oil, &c. William H. Hoeg, Salem, Ohio	May 20, --
Press for hats. R. Tyler and B. P. Coston, Philadelphia	May 23, --
Press for packing cotton. Charles Williams, Petersburg, Va.	June 3, --
Percussion lock, for the rifle, &c. Joseph Medbery and Sil. Kellogg, Rochester, New York	June 16, --
Pressing unburnt brick, machine for. Ephraim Mayo, Hallo- well, Maine	June 24, --
Planting and working Indian corn. William Ross, Middle Bax- ter, Pennsylvania	June 24, --
Plugs, machine for cutting. Charles Josselyn, New York	June 28, --
Plough, improvement in the. Zeb S. Holdridge and Hy S. Lawson, Berne, New York	Aug 9, --
Printing press, improvement in the. David Phelps, Boston, Massachusetts	Sept 15, --
Printing press, improvement in the. Samuel Fairlamb, N. Y.	Nov 4, --
Press for packing cotton. J. Boatwright and James Nathans, Richland, South Carolina	Nov 21, --
Pipes, mode of making clay. John Bower, East Bethlehem, Pennsylvania	Dec 1, --
Press, for pressing cheese, cider, &c. Lebbeus Caswell, Har- rison, Maine	Dec 18, --
Planing boards, machine for. Herman Allen, Randolph county, North Carolina	Dec 22, --
Planting cotton seed, corn, &c. machine for. John Labdell, Warren county, Mississippi	Dec 26, --
Pressing and packing cotton, machine for. James H. M'Clel- land, Fairfield, South Carolina	Dec 28, --
Plane, revolving timber. Daniel N. Smith, Warwick, Mass.	Dec 28, --
Pendulum motion, lever engine for. Justin Jacob, Montreal, Canada	Dec 29, --
Press, for pressing hay. D. Flagg and Charles Peck, Gardiner, Maine	Dec 30, --
Plough for planting corn, improvement in the. H. Russel, Litchfield, Maine	Jan 16, 1827
Pipes, tubes, gutters, &c. made of clay. Jos. Putnam, Salem, Massachusetts	Jan 17, --
Press for tobacco, cotton, &c. B. R. Curtis, Richmond, Va.	Jan 29, --
Pumps, improvement in. J. Robinson and L. Shaw, Bath, Me.	Feb 1, --
Plough, improvement in. Ryland Rodes, Charlotteville, Alber- marle county, Virginia	Feb 20, --
Percussion gun lock, improvement in the. William A. Hart, Fredonia, New York	Feb 20, --
Pump for steam boilers, improvement in the. A. Judson, Swe- den, New York	Feb 23, --
Paper, mode of pressing. Ira White and Leonard Gale, New- burgh, Vermont	Feb 28, --
Propelling vessels by water pressure. Elisha Fuller, North Pro- vidence, Rhode Island	March 2, --
Pumping water out of ships by wind. Thomas Brownell, N.Y.	March 23, --
Pressing and lifting machine. Samuel Andrews, Bridgetown, Maine	March 28, --
Plough, improvement in the twin. Noble G. Cryer, Went- worth, North Carolina	March 24, --
Polishing hard and soft metallic substances, machine for grind- ing. B. Green, Hartford, Vermont	March 27, --
Power, mode of obtaining from certain fluids. Mark I. Brunel, London, England	March 30, --

Paper, machine for trimming the edges of. John M'Clintock, Chambersburg, Pennsylvania	March 31, 1827
Propelling machinery of all kinds. William Stanton, Centre township, Indiana	April 23, --
Preserving eggs, butter, and lard. Thomas Edmundson, Pipe creek, Maryland	April 26, --
Paint, mill for grinding. Allen Holcomb, Butternuts, N. Y.	May 14, --
Piano fortes, improvement in horizontal. Thomas Loud, jun. Philadelphia	May 15, --
Plough, improvement in the cast iron. Robert Sweeny, Warren county, Ohio	May 18, --

## Q

Quercitron, or black oak bark, improvement in the preparation for exportation or home consumption. Thomas Bengier	Jan 25, 1804
Quadrant. See <i>Gunnery</i> .	
Quadrant. Josiah Arnold, Caledonia, Vermont	April 14, --
Quercitron, or black oak bark. N. Harper, Frankfort, Penn.	Oct 30, --
Quercitron, mode of preparing. Joseph Lyon, Philadelphia	July 1, 1811
Quercitron, machine for preparing. James Andrews, Phil.	July 15, 1816
Quills, machine for winding. Francis Jones, New York	May 23, 1821
Quercitron bark, mode of preparing. James Elliott, Phil.	Aug 20, 1822

## R

Rhus, or sumach, manufacture of. See <i>Sumach</i> .	
Raising water by wind. Samuel Morey, New Hampshire	April 11, 1796
Rice and other grain, machine for scouring. Robert Geant	Oct 17, --
Ruling books and paper. Mark Isambard Brunel	Nov 16, --
Rice scoured, separating. James Dellet	Dec 23, --
Rice, scouring or skinning, improvement in. Samuel Mullikin	Feb 20, 1797
Rocks, &c machine for removing. Isaac Lazell	May 18, 1798
Ropes, improvement in making. Michael Wigglesworth	June 26, 1799
Runners and bows for sicighs and sledges. Abijah Wilder	Dec 14, --
Rope yarn and twine, machine for spinning. Stephen Gorham	Feb 4, 1800
Rice, gunpowder, &c. machine for pounding. B. Botitho	Feb 7, --
Ruling paper, &c. machine for. Richard Robotham	Oct 10, 1801
Rolling iron round, &c. Henry Abbott, Philadelphia	May 4, 1802
Rolling iron for nails. See <i>Nails</i> .	
Rice. See <i>Hulling rice, machine for</i> .	
Refrigerator for domestic uses. Thomas Moore	Jan 27, 1803
Ruling machine, improvement in. Daniel Brewer, Phil.	April 22, --
Rolling machine. See <i>Cleaning cotton</i> .	
Rectifying or improving spirits, improvement in the applica- tion of the principle. Burgess Allison, Philadelphia	May 17, --
Rocks. See <i>Boring under water</i> .	
Ruling paper. See <i>Cylindric ruler</i> .	
Ruling plates of iron and cutting them into nails. Samuel Ro- gers and Melville Otis	Dec 7, --
Rheumatic, liniment. Abel Brown	Oct 17, 1804
Rafts. William Deane, Pittsburg, Pennsylvania	Nov 4, 1805
Rheumatic pill. George Barber, Dexter, Boston	Dec 18, --
Resping grain, machine for. Samuel Adams	Dec 28, --
Rowing machine. Eben Bryant, New London, Connecticut	Jan 13, 1806
Rope yarn. See <i>Spinning</i> .	
Raising vessels, machine for. J. T. Morgan, New York	Oct 9, --
Ruptures. See <i>Truss</i> .	
Ropes, mode of making to any size. John Sellers and Andrew Bartle, Alexandria	May 5, 1807
Rigging vessels. Stephen Sayre, Bordentown, New Jersey	May 9, --

Rays of the sun. See <i>Heating</i> .		
Rolling and slitting mills. Isaac Pierson, New York	-	Dec 21, 1807
Ruling machine, cylindric. John Fairbanks, Boston	-	April 21, 1808
Rivets, machine for making. Josiah Jennings, New York		April 25, --
Rectification of spirits. Osborn Parsons, Hudson, New York		June 23, --
Rice, machine for cleaning. J. Lucas, jun. Charleston, S. C.		July 12, --
Rice, machine for hulling and cleaning. J. T. Ricketts, Cam- meron, Vermont		Aug 8, --
Raising water, machine for. Wm. Barker, Wilkesbarre, Penn.		Aug 26, --
Ratched wheel Marchus B. Parmelee, Newtown, Conn.		Sept 21, --
Refining lamp oil. Eli Fourestier, Philadelphia	-	Nov 17, --
Rotary steam engines. See <i>Stills</i> .		
Reacting water wheel, M'Comb's improvement in. Joel Farn- ham, Oswego, New York	-	Nov 23, --
Rolling wheel on an inclined shaft. S. Mirick, Madison county, New York	-	Nov 30, --
Rolling and plating iron, machine for. Stephen Couch and Asa Towne, Boston	-	Dec 10, --
Reading, mode of teaching. Hugh Chard, Washington county, New York	-	Feb 16, 1809
Rice, machine for pounding. Jacob Reed, Charleston, S. C.		June 9, --
Roving machine for flax and hemp. G. Brown, Schatecoke, New York	-	June 16, --
Ropes. See <i>Cables</i> . William Schultz, Baltimore		
Rapid Jack for ascending rapids. Augustus Sacket, N. Y.		July 3, --
Rice, machine for cleaning. Roswell King, Darien, Georgia		Nov 21, --
Rocks, machine for drilling. E. Jones and Philip White, Brook- field, Massachusetts	-	Dec 21 --
Raising grain. Jeremiah Bailey, Chester county, Pennsylvania		March 5, 1810
Rollers for sheaves of blocks. Mark Leighton, Portsmouth, New Hampshire	-	March 14, --
Rice, machine for beating out. J. Beck and J. Coppinger, Beck's ferry, South Carolina	-	March 19, --
Raising Water, machine for. Samuel Cuney, Williamson coun- ty, Tennessee	-	April 24, --
Reflector, elastic lamp, Joseph Flag, jun. Boston	-	May 17, --
Reflecting and magnifying lantern. Winslow Lewis, Boston		June 8, --
Rifle guns. Elisha Strong and C. Kellog, New Hartford, Conn.		Aug 31, --
Reverting wheels. Otis Paine, Foxborough, Massachusetts		March 1, 1811
Rice, machine for hulling. Sherman Dewey, Hartford, Ver.		March 2, --
Rollers, mode of casting iron. Cyrus Alger, Boston		March 30, --
Ripening and keeping malt liquor. Robert Hare, Philadelphia		Aug 22, --
Rolling wire. James Howell, Philadelphia		Jan 11, 1812
Ruling machine. Asa Spencer, New London, Connecticut		Feb 7, --
Rowing and propelling boats. William Shaw, Otsego, N. Y.		Feb 19, --
Rubbing wheat, &c. machine for. J. D. Richards, Middleburg, Virginia	-	Feb 27, --
Rubbing wheat, &c. machine for. George M. Adam Brown, Northumberland, Virginia	-	March 19, --
Rolling machine. Josiah White, Philadelphia	-	May 15, --
Roping and spinning machine. G. Cornell, Rensselaer, N. Y.		July 22, --
Roping and spinning cotton, &c. John Brown, Providence, R. I.		Aug 8, --
Rail ways. See <i>Chain carts</i> .		
Rake for collecting apples. Ezias Hart, Berlin, Connecticut		Dec 31, --
Refrigerator. J. W. Bronaugh and J. Talbot, Georgetown, District of Columbia	-	March 16, 1813
Repeating gunnery. Joseph C. Chambers, West Middletown, Pennsylvania	-	March 23, --
Ropes and twine making. J. Heaven, Montgomery Court House, Maryland	-	Aug 3, --
Rheumatic pills. Ezra Deane, Biddeford, Massachusetts		Jan 13, 1814

Roller, impressed. John Owings, Baltimore	Jan 25, 1814
Ruler, spring penn. T. M. Pomroy and L. Hedge, Windsor, Vermont	June 21, --
Roller toothed for sowing. Abel Densmore, Le Roy, N. Y.	July 29, --
Reconductor, the. John Sargent, Vernon, New York	April 23, 1816
Roving machine for cotton. William Bryant, Davidson county, Tennessee	April 29, --
Reed, weavers. Jephth A. Wilkinson, Otsego, New York	July 3, --
Ruling paper. Lewis Henry, Bellows Fall, Vermont	Aug 24, --
Rolling bar iron edgewise. George Ellicott, Baltimore	Sept 20, --
Refining sugar. Mervin Merrill, New York	Oct 25, --
Rocks blown under water. J. M. Syme, Richmond	Dec 12, --
Rivers, machine for cleaning the bottoms of. J. Tucker, Balt.	Dec 13, --
Ruling machine, double. T. Newhall, jun. Lynn, Mass.	Dec 26, --
Ribbons, machine for glossing. Charles Cromwell, N. Y.	Jan 27, 1817
Revolving ruler. Lemuel Hedge, Windsor, Vermont	March 3, --
Rope yarn, manufacturing. John Petman	March 14, --
Ruling machine. George Strowhaver and Frederick Sanxay, Cincinnati, Ohio	Sept 1, --
Roller for beating. Hugh Maxwell, Lancaster, Pennsylvania	Dec 26, --
Reaping and thrashing machine. John Hersey, Mathews county, Virginia	Feb 9, 1818
Rafts, mode of constructing. Daniel Gordon, Chanceford, Penn.	Feb 14, --
Rudder, mode of hanging ships. Com. John Shaw, Phil.	April 10, --
Rollers, lathe for turning. Samuel Rogers, Bridgewater, Mass.	June 24, --
Rolling sheet iron, machine for. Do. do.	June 24, --
Rubbers, side. John L. Sullivan, Boston	Dec 11, --
Ropes, machine for. Robert Colbert, Boston	March 17, 1819
Rice polisher. J. Lucas, jun. Charleston	Nov 6, --
Rockers for cradles, chairs, &c. Samuel Simmons, Baltimore	Dec 21, --
Razor straps, improvement in. Jonas Crumbacker, Union, Frederick county, Maryland	Dec 24, --
Readies for cordage and ropes. Robert Graves, Boston	Dec 31, --
Ropes and cordage, making. Eleazor Crain, Springfield, N. Y.	Jan 10, 1820
Rail ways and carriages, improvement in. C. Williams, Richmond, Virginia	Jan 18, --
Rice, machine for cleaning. Richard French, Morrisville, Penn.	Oct 13, --
Readies, machine for making ropes. Robert Graves, Boston	Nov 22, --
Readies, drawing yarn for. Do. do.	Nov 22, --
Ropes, machine for making and laying. Do. do.	Nov 22, --
Ropes, machine for equalizing the strain. Do. do.	Nov 22, --
Ramrods, machine for making. Charles G. Barstow, Exeter, New Hampshire	Dec 21, --
Razor straps, paste for. Elisha M. Pomeroy, New Haven, Conn.	Jan 24, 1821
Rifle, repeating. Isaiah Jennings, New York	Sept 22, --
Razor straps, improvement in. John M. Fors, Baltimore	Oct 2, --
Rice, machine for cleaning. Lazarus Ruggles, New York	Oct 12, --
Reticules and pocket books, improvement in. William Winning, New York	Nov 7, --
Reeds, improvement in metallic. Peter F. Huben, Patterson, New Jersey	Nov 15, --
Rail ways, improvement in. Charles Williams, Boston	Nov 16, --
Rice, machine for hulling and shelling. Elihu Spencer, New Haven	Dec 5, --
Rotary steam engine. J. Lansing, jun. and A. Thayer, jun. Albany, New York	Jan 19, 1822
Razor straps, improvement in. Jacob Houck, New Market, Md.	Jan 24, --
Railing, ornamenting the tops of. Paulus Hedl, New York	Feb 21, --
Razor straps, composition for. D. Ritter, New Haven, Conn.	March 9, --
Rollers, mode of covering. Everet Williams, Stratford, N. H.	April 13, --



Rigging, attaching the standing. William H. Allen (killed by the pirates,) United States' navy, Albany, New York	July 10,	1822
Revolving lever for boats. Lewis Marchand, Blakely, Alabama	July 10,	--
Rigging vessels, called centre reeving. Samuel A. Wells, Bos.	July 24,	--
Rigging, called lever truss and sling. do. do.	July 24,	--
Rivers, navigating and ferrying. Edward Clark, Philadelphia	June 25,	1823
Rotary motion, from a measured rectilineal one. Archibald Smith, New York	Aug 30,	--
Ruling machine, for paper, &c. Richard Willcox, N. Y.	Sept 4,	--
Rice mills, improvement in steam. John L. Norton, Charleston, South Carolina	Dec 16,	--
Rolling machine, for cotton or wool. Jesse Hopkins, Strassburgh, Pennsylvania	Jan 14,	1824
Rolls, method of receiving from the machine. Gilbert Brewster, Norwich, Connecticut	March 13,	--
Rotary motion, mode of producing a. William Scarburgh, Darien, Georgia	May 19,	--
Rudders for vessels, construction of. Andrew Watkins, Salem, Massachusetts	May 21,	--
Rail roads, improvement in. John Stephens, Hoboken, N. J.	June 8,	--
Rapids, &c. rendered navigable. do. do.	June 8,	--
Razors, improvement in making. J. Brown, Providence, R. I.	June 28,	--
Revolving rake, improvement in. Henry and Ezra Hoopes, Wilmington, Delaware	July 26,	--
Roping and spinning wool and cotton. A. Patterson and Francis Burdick, Delaware county, New York	Sept 29,	--
Rail roads, construction of. John Stephens, Hoboken, N. J.	Oct 23,	--
Roping cotton, slack, &c. Sydney Whiting, Franklin, Mass.	Nov 17,	--
Raising water by weights. William Dabney, Richmond, Va.	Nov 20,	--
Ruling paper, machine for. George Crosby, Augusta, Me.	Jan 21,	1825
Rail ways, improvement in. Edward Gray, Boston	March 15,	--
Rail way, single. Henry Sargent, Boston	May 6,	--
Rotary machine. Elisha Hale, Pomfret, New York	May 20,	--
Roller, for wagon and carriage springs. John Barton, jun. Providence, Rhode Island	Sept 9,	--
Rigging, mode of setting up standing. Benj. Booth, Wash.	Sept 28,	--
Rectifying liquor. L. C. and Ph. Bodman, Baltimore, Md.	Sept 30,	--
Reaping and cutting, machine for. James Ten Eyk, Bridgewater, New Jersey	Nov 2,	--
Reacting or lever wheel. Luther Davis, Northampton, Mass.	Nov 4,	--
Rice, &c. machine for cleaning. Alexander Shinie, Charleston, South Carolina	Dec 21,	--
Refrigerators for distilleries. L. C. and Ph. Bodman, Balt.	Jan 6,	1826
Rice, machine for hulling and cleaning. John L. Norton, N. Y.	March 10,	--
Rollers, heating calender. Joel Brimhall and Thomas Keyes, jun. West Boylston, Massachusetts	April 1,	--
Repairing, mode of raising vessels for. Benj. Waterhouse, N. Y.	April 15,	--
Rail roads, called forest rail roads. H. Pinkus and J. R. Williams, London, England	April 27,	--
Rail way, with a lift. Ethan Baldwin, Harrisburg, Penn.	May 6,	--
Rail ways, for teams to pass on. J. Brown and G. W. Robinson, Providence, Rhode Island	June 6,	--
Rail way, endless, improvement in the. Jeremiah Price, N. Y.	Sept 15,	--
Rail way, improvement in the submarine. John Thomas, N. Y.	Nov 6,	--
Rail way, improvement in the marine. Richard Ward, N. Y.	Dec 28,	--
Ropes, machinery for laying. David Myerle, Philadelphia	March 3,	1827
Rice, machine for hulling and cleaning. J. Campbell, Winborough, South Carolina	May 31,	--

Stone and marble, polishing of.	Samuel Mulliken, Phil.	March 11, 1791
Spindles, diminishing friction of.	Robert K. Livingston, Clermont county, New York	Aug 4, --
Steam engine, improvement on Captain Savary's.	James Rumsey, Berkley county, Virginia	Aug 26, --
Steam, generation of.	Do. do.	Aug 26, --
Steam, application of to propel boats or vessels.	Do. do.	Aug 26, --
Steam engine applied to navigation.	John Fitch, Philadelphia	Aug 26, --
Steam engine, boiler of.	James Rumsey, Berkley county, Va.	Aug 26, --
Steam, boiler for generating.	J. Stevens, jun Bergen county, New Jersey	Aug 26, --
Steam, raising water by.	Do. do.	Aug 26, --
Steam, applying the force of.	Do. do.	Aug 26, --
Steam engine boiler.	Nathan Reed, Massachusetts	Aug 26, --
Steam engine, improvement on Savary's, for raising water.	Englehart Cruse, Baltimore, Maryland	Aug 26, --
Steam jack.	John Baily, Boston	Feb 23, 1792
Steel, hardening and tempering.	David Hartley, Boston	Feb 24, --
Stones, mill, handmill for picking of.	Jonathan Dorr and Solomon Hodge, Washington, New Jersey	Oct 23, --
Spit, new method of turning a.	S. Morey, Oxford, Grafton county, New Hampshire	Jan 29, 1793
Sumach, or rhus.	Richard R. Saltonstall, New London, Conn.	Feb 28, --
Sugar, moulds for claying.	Jonathan Williams, jun. Phil.	March 13, --
Sumach, or rhus.	Richard R. Saltonstall, New London, Conn.	May 1, --
Stone of cast iron.	Robert Heterick, Pennsylvania	June 11, --
Sails of ships and boats, applying and regulating the.	Joseph S. Sampson, Boston	July 5, --
Sail, duck, weaving.	James Davenport, New Jersey	Feb 14, 1794
Still, steam, improvement in.	Alexander Anderson, Penn.	Sept 2, --
Salt, making from sea water.	James Fennel, Pennsylvania	Sept 24, --
Still, improvement in.	John Kincaid, Pennsylvania	Nov 25, --
Saw, round.	Zachariah Cox, Georgia	March 14, 1795
Still, worm of sheet copper.	John Taylor, Virginia	June 30, --
Stones, sawing and polishing of.	Jonathan Dickerson, N. J.	Jan 9, 1796
Seed, clover and other, cleaning.	Jonathan Roberts, jun. Penn.	Feb 13, --
Silk, linen, &c. oiled.	See <i>Oiled, &amp;c.</i>	
Skins, seals, manufacturing of.	James Eaton, Massachusetts	Feb 16, --
Sumach, manufacturing.	Joseph Hilliard, Connecticut	May 12, --
Steam engine and boiler, invention of.	Elijah Bachus	May 31, --
Stays, &c. improvement in, for removing incurvatures or distortions of the spine.	Limdin M'Kechnie	July 1, --
Salt, improvement in making.	George James	Nov 16, --
Skins, improvement in splitting sheep.	James Stanfield	Nov 16, --
Soap, improvement in making.	John Nazro	Jan 6, 1797
Stoves, improvement in.	James M'Callmont	Feb 20, --
Stoves, improvement in.	Thomas Hirst	March 11, --
Stoves, improvement in.	Caleb Wheaton	March 29, --
Shingles and boards, improvement in making.	Bill Jervis	July 8, --
Saddles, improvement in.	Thomas Stickney	Nov 16, --
Stove, a soap stone.	William Payne	Dec 10, --
Steam engine, application to the sawing, cutting and manufacturing lumber.	Robert M'Kean	March 24, 1798
Steam engine, a double.	James Smallman, N. J. Roosevelt	May 31, --
Steam (S. M. 1799.)	See <i>Water.</i>	
Stoves, improvement in.	J. W. Godfrey and William Lane	July 14, --
Stoves, coal, improvement in.	Henry Abbott	Jan 24, 1799
Salt, a machine for manufacturing.	John Sears	Jan 24, --
Steelyards, improvement in.	Benjamin Dearborn	Feb 14, --
Stones.	See <i>Marble.</i>	
Steam, application of.	Samuel Morey, New Hampshire	March 25, --

Sawing boards, mill for.	Aaron Clarke	March 30, 1799
Ships, machine to keep its distance at sea (reckoning.)	Chester Gould	May 28, --
Screws, machine for cutting.	David Wilkinson	Dec 14, --
Seeds.	See <i>Cotton</i> .	
Stoves and grates, improvement on.	Oliver Evans	Jan 16, 1800
Stop cock.	Peter Walker	April 10, --
Silk, cotton, worsted, engine for reducing.		April 10, --
Sumach, manufacturing.	Comfort Hoyt	April 7, --
Ships and vessels, improvement in the construction of.	Jeremiah Brown	May 14, --
Sheathing vessels, improvement in.	Henry Guest, New Brunswick, New Jersey	Jan 26, 1801
Stoves, improvement in construction of.	W. Henderson, Middletown, Connecticut	Feb 12, --
Starch manufactured from potatoes.	John Biddis, Phil.	March 22, --
Stove, screw and reel, grain drying machine.	David Ellicot, An Arundel county, Maryland	May 1, --
Spoons, mode of manufacturing.	T. Bruff, Washington City	Sept 14, --
Seal and beam, moveable and suspended.	S. Wallis, Boston	Sept 21, --
Syphonic steam machine.	John Pool	Oct 13, --
Stills, construction of.	Michael Kraft, Philadelphia	Oct 28, --
Ship's pump, improvement in.	George Clymer, Philadelphia	Dec 22, --
Saw mill, improvement in turning the log.	M. Coates, Washington county, Pennsylvania	April 1, 1802
Saw mill, improvement in.	Hezekiah Richardson, jun. and Levi Richardson, Middletown, Massachusetts	April 28, --
Spirits, mode of improving.	Burgess Allison	May 12, --
Scientific steelyards.	Lewis Du Pre, South Carolina	May 12, --
Salt, machine for manufacturing.	B. Ellicot, Lancaster, Penn.	May 12, --
Steam boat, improvement in.	Edward West, Fayette county, Kentucky	July 6, --
Still, improvement in.	William Paine	Aug 24, --
Steam engine, improvement in.	Samuel Briggs, jun.	Oct 9, --
Splitting skins, improvement in.	Asa W. Chickering	Nov 29, --
Stills, improvement in.	John Staples	Dec 15, --
Salt, improvement in making.	Valentine Peers	Dec 18, --
Stone and marble, machine for sawing.	W. Palmer	Dec 31, --
Saw mill for cleaning cotton.	G. F. Saltonstall, Fayetteville, North Carolina	Jan 4, 1803
Stills, improvement in.	John Moffat	Feb 1, --
Spirits from starch, mode of extracting.	John Naylor	March 7, --
Sea sitting chair.	A. Du Buc Marentille	March 18, --
Sub-marine passage or hollow inverted arch.	J. Staples, Flushing, Long Island	March 18, --
Sea salt, improvement in the process of manufacturing.	George Hunter	March 24, --
Steam, improvement in producing.	John Stevens, New York	April 11, --
Salt, expediting the manufacture of.	Timothy Alden, jun.	May 25, --
Steam engine, improvement in.	Samuel Morey, Rufus Graves and Giles Richards	June 15, --
Shearing woollen and other cloths, machine.	L. Stanley	June 25, --
Skins, machine for pulling hair off.	Nicholas Young	June 28, --
Shingles, machine for splitting and shaving.	Daniel French, Middletown, Connecticut	July 25, --
Stills, improvement in the construction of.	L. Geanty	Aug 4, --
Seals' fur, method of preparing for hats.	G. Cleveland, Hartford, Connecticut	Sept 9, --
Shelling corn, machine for.	Paul Pilsbury	Oct 25, --
Stills.	See <i>Boiler</i> .	
Spinning wheels, improvement in.	Amos Minor	Nov 16, --

Still heads and condensers, improvement in.	E. Richardson, N. P.	Dec 16, 1803
Stills and boilers, improvement in.	Leonard Betty	Jan 19, 1804
Stills, improvement in the construction and in the process of distilling spirits.	William Wigton, Hudson, New York	Jan 30, --
Screw mill, for breaking and grinding different hard substances.	Oliver Evans, Philadelphia	Feb 14, --
Steam engines, improvement in.	Oliver Evans, Philadelphia	Feb 14, --
Setting stills and other large kettles.	Israel Wood	Feb 21, --
Smut fanning mill, improvement.	Thomas Pierce, Fishkill, N.Y.	Feb 21, --
Spinning wheel, improvement in.	William B. Dyer	Feb 27, --
Shot, improvement in the mode of making.	P. Daniel, Phil.	March 21, --
Still and boiler, improvement.	John Taylor	March 31, --
Sheet tin, improvement in mode of working.	Calvin Whiting and Eli Parsons	April 14, --
Springs for withdow sashes, improvement in.	J. Eaton, Bos.	April 14, --
Steam bath still.	See <i>Double</i> .	
Straw and hay.	See <i>Cutting</i> .	
Shelling and cleaning corn, machine for.	Levi Stevens, N. Y.	May 8, --
Salt, machine for making.	Ezra Weld	May 16, --
Suspenders, improvement in.	John Hooker	Nov 19, --
Shingles, machine for sawing.	Isaac Baker, Amherst, Mass.	May 8, 1805
Sod oil, for leather, method of making.	G. Poyzer, Phil.	May 10, --
Sluice to convey water to wheels, &c.	James Humiston, New Haven, Connecticut	May 10, --
Smut fanning mill.	Thomas Pierce, Fishkill, New York	May 24, --
Setting boilers.	See <i>Boilers</i> .	
Sulphate of potash, method of separating.	A. M'Nitt, Geneva, New York	June 15, --
Springs for wheel carriages.	William Wing and H. Salisbury, Hartford, Connecticut	Aug 29, --
Shingles, improvement in making.	A. A. Kelsey, Hartford, Connecticut	Oct 9, --
Splitting skins, machine for.	Wm. Lillie, West Chester, N. Y.	Nov 9, --
Salt, making.	John Gilman Taylor	Nov 13, --
Shearing woollen or other cloths by water.	Friend B. Kellog, Marlborough, Massachusetts	Nov 22, --
Spring pump for raising water.	William Finn, Baltimore	Feb 13, 1806
Suspenders.	Richard Howell	March 5, --
Stoves.	Samuel Dickey, Oxford, Pennsylvania	March 7, --
Splitting skis, machine for.	Stephen Pagne	March 31, --
Straw.	See <i>Cutting</i> .	
Saw mills.	Joseph Quinby, Boston	April 25, --
Steelyards.	John Edwards, New York	May 19, --
Scale beams and balances.	John Edwards, New York	May 19, --
Stove.	See <i>Cabouse</i> .	
Shearing cloth, machine for.	Beriah Smith, Washington, N. Y.	May 25, --
Salt, method of extracting from salt water.	Stan. Smith, Suffolk, Massachusetts	June 12, --
Salt, method of facilitating the process of extracting from salt water.	S. Smith, Suffolk, Massachusetts	June 13, --
Spinning of rope yarn, machine for.	N. Cutting, Washington City	July 14, --
Swing cradle.	Zachariah Mills, Hartford, Connecticut	July 17, --
Sublimation of sulphur.	George Barber Dexter, Boston	Oct 9, --
Screens for freeing grain from dirt, &c.	W. Tulloch, Orange Court House, Virginia	Oct 28, --
Suspenders.	Jonas Dawson, Philadelphia	Nov 6, --
Sleigh.	See <i>Transverse</i> .	
Swivel screw, water tight, for steam engines, &c.	Abel W. Hardenbrook, New York	Feb 10, 1807
Salt, mode of making.	Timothy Green, New York	April 1, --



Shingles and staves, machine for dressing.	J. McIlvain, Chester, Pennsylvania	April 1, 1807
Stumps, method of raising from the ground.	A. Craig, N. H.	April 15, --
Stumps for carriages.	See <i>Main</i> .	
Steelyard.	Barnabas Langdon, St. Albans, New York	April 23, --
Shearing cloth, machine for.	Russell Dorr, Kinderbrook, N. Y.	May 8, --
Shingling the roofs of houses, &c.	Thomas Young, Phil.	May 11, --
Spring buckle, mechanical.	John Green, New York	May 20, --
Stills, improvement in.	S. Steward, Walpole, N. H.	June 21, --
Shearing cloth, machine for.	Enoch Burt, Princeton, N. J.	June 23, --
Saw mills, improvement in.	Jacob Spafford, Ipswich, Mass.	June 23, --
Straw, machine for cutting.	J. Cleaveland, Franklin county, Pennsylvania	July 18, --
Straw, machine for cutting.	Ben. Gonnor, Portsmouth, N. Y.	July 20, --
Stills, improvement in.	Edward Richardson, Fredericktown	Oct 3, --
Straps for suspenders.	See <i>Leather</i> , &c.	
Stove pipes, mode of making.	R. Wheatley and J. Beaumont, Boston	Nov 4, --
Still, improvement in.	William Thornton, Washington City	Dec 13, --
Sugar, mode of making and refining.	Antoine Boucherie, Phil.	Jan 8, 1808
Splitting leather and skins, machine for.	William Brent, Bost.	Feb 24, --
Screw press.	See <i>Press</i> .	
Smoothing and polishing paper, machine for.	Wm. Coolidge, Boston	April 18, --
Stripping alum dressed leather for shoe binding.	S. Frothingham and George Harris, Middletown, Connecticut	April 20, --
Spinning wheel, improvement in.	T. Cruttenden, Poultney, New York	April 23, --
Shearing machine for cloth.	Eben. Stowell, Worcester, Mass.	April 26, --
Springs, thorough brace for carriages.	J. Mix, New Haven, Connecticut	June 17, --
Stoves for heating rooms.	Allan Pollock, Boston	June 17, --
Sawing stone, wood, &c.	Do. do.	June 20, --
Shearing cloth, machine for.	S. Stewart, Eben Hovey and James Henderson, Pittstown, New York	June 21, --
Springs for carriages, folding or spiral.	J. Armour, jun. Balt.	June 27, --
Slitting boards, planks, &c.	Ezekiel Olds, Brookfield, Mass.	June 29, --
Splitting skins.	Isaac Cobb, Walpole, New Hampshire	July 12, --
Shaving and splitting.	See <i>Leather</i> .	
Straw cutting machine.	Elihu Hotchkiss, Battleboro', Vert.	Aug 2, --
Spinning wheels.	Obadiah Sheely	Aug 6, --
Springs for carriages.	Joshua Cone, Reading, Connecticut	Aug 26, --
Stove, rarefying air.	Daniel Pettibone, Roxbury, Connecticut	Oct 28, --
Scrubbing and scouring machine for floors.	Simon B. Willard, Bloomfield, Ontario county, New York	Nov 17, --
Stills and rotary steam engines.	Sted. Adams, Hartford, Conn.	Nov 21, --
Still tubs.	Isaac Bennet, Newton, Connecticut	Dec 12, --
Shingles, machine for dressing.	R. and T. Nicholson, Birdstown, Kentucky	Dec 13, --
Suspending.	See <i>Carriages</i> .	
Splitting hides, machine for.	Seth Boyden, Foxboro', Mass.	Jan 7, 1809
Steam boats and boilers.	William Thornton, Washington City	Jan 16, --
Sawing timber in circular form.	J. Lindsey, Cassanovia, N. Y.	Feb 4, --
Steam boats.	Robert Fulton, New York	Feb 11, --
Stoves.	James Fales, Newport, Rhode Island	Feb 22, --
Scows and boats.	Elihu Sherman, Lansingburg, New York	March 2, --
Salt, mode of making.	Benjamin Wheeler, Boston	March 17, --
Saw, hand.	Isaiah Jennings, New York	March 17, --
Silk stuffs, machine for finishing.	Abner Stearns, West Cambridge, Massachusetts	March 22, --
Splitting leather and skins.	John Woodcock, Worcester, Mass.	May 8, --



Straw cutting machine. Roger Haskell, Burlington, N. Y.	May 25, 1809
Sea table. William H. Richardson, Baltimore	June 9, --
Shutters for windows. Truman Bartholomew, New York	June 17, --
Straw cutting machine. Jacob Canfield, Morristown, N. J.	June 26, --
Shearing cloth. David Dewey, Poultney, New York	June 27, --
Spiral float wheel mill. Fitch Ives Lisle, New York	July 5, --
Spiral truss. See <i>Truss</i> .	
Shingles, machine for riving and shaving. Jacob Balcomb, Reading, New York	July 15, --
Shot, manufacturing. John W. Jope, Philadelphia	July 17, --
Screws, machine for cutting wood. A. Stowell, Worcester, Massachusetts	July 18, --
Stump lifting machine. David Stone, Claremont, N. H.	July 27, --
Saw for wood. James Hamilton, Brookfield, Massachusetts	July 23, --
Screw augur, double podded centre. E. L'Hommedieu, Saybrook, Connecticut	July 31, --
Spirits and wines, mode of ameliorating. W. Thornton, Washington, District of Columbia	Sept 1, --
Steam engine, improvement in the. Daniel French, N. Y.	Oct 12, --
Shingles, machine for splitting. Joseph Coppinger, Baltimore	Oct 31, --
Spoons, machine for manufacturing. Isaiah Bisbee, Bath, Mass.	Nov 20, --
Stills, cast iron. Joseph Coppinger, Beaufort, North Carolina	Nov 21, --
Seine. See <i>Fishing</i> .	
Sawing machine. E. Odds and Phiney Upham, Worcester, Mass.	Dec 21, --
Steam engines and boilers. John Stevens, New York	Jan 3, 1810
Soal leather, machine for compressing. J. Elliot, Sharon, Conn.	Jan 18, --
Sawing timber. Elisha Cook, Bethlehem, Massachusetts	Jan 20, --
Sheaves, method of making. Enoch C. Topham, Essex, Mass.	Feb 12, --
Stove pipes. John Parkhurst, jun. Cheshire, New Hampshire	Feb 13, --
Sawing timber. John Sweet, Bethlehem, Massachusetts	Feb 15, --
Signals for vessels. Nath. Shaler, New York	Feb 21, --
Saw mill. Abel Wright, Canaan, New York	March 7, --
Spring bolt and key for windows. R. Smith, Norwich, Conn.	March 8, --
Sawing timber. A. Jones, jun. Bethlehem, Massachusetts	March 14, --
Spinning wheel. Winsor Drury, Brookfield, Massachusetts	March 19, --
Saw, driving whip. Joseph Coppinger, Frederick, Georgia	March 19, --
Salt, manufacturing. Benjamin Wheeler, Boston	March 28, --
Screw. See <i>Grist mill</i> .	
Spinning flax. Alpheus Webster, Green county New York	March 31, --
Still, perpetual. Robert Gillespie, Seneca county, N. Y.	April 2, --
Stone turner, marble. David Clark, West Stockbridge, Mass.	April 9, --
Saw mill. Joseph Ennals, New Market, Maryland	April 10, --
Spinning wheels, the heads of. Amos Miner, Marcellus, N.Y.	April 11, --
Sawing wood, machine for. Roger Smith, Norwich, Conn.	April 24, --
Spring tree saddle. David C. Mosely, Boston	April 25, --
Screws, casting metal. John Nicholson, Herkimer, N. Y.	April 28, --
Sash stuff, machine for trying. E. Basford, Livermore, Mass.	April 28, --
Sawing boards, machine for. O. Judd, jun. London, Mass.	May 1, --
Saw mill to be worked by hand. George Harris, Philadel.	May 3, --
Shelling corn. John Heavin, Frederick county, Maryland	May 8, --
Shearing cloth. Eleazar Sprague, Danbury, Connecticut	May 9, --
Shearing cloth. Herman Mathews, Delaware	May 15, --
Suspenders. James Davis, Philadelphia	May 18, --
Shearing cloth. Beriah Swift, New York	May 28, --
Saddle trees, machine for making. Ruben and E. Fairchild, Fairfield, Connecticut	June 1, --
Ship building. See <i>Boat, &amp;c.</i>	
Splitting mill. Phineas Dow, Boston	July 12, --
Shaving shingles, machine for. Abiel A. Cooley, Bolton, Conn.	July 13, --
Smoothing linen, machine for. W. P. Smith and Jacob Odell, Durham, New Hampshire	July 17, --

Shaving shingles. Daniel Newel, Saratoga, New York	July 26,	1810
Steam, mode of producing. J. H. Williams, Brunswick, N. J.	July 26,	--
Steam, propelling boats by. Ralph Letton, Albany, N. Y.	Aug 29,	--
Shovels, machine for swaing. Upton Reed, Harford, Md.	Aug 31,	--
Smoke conductor. John C. Teall, New York	Sept 11,	--
Starch, mode of making. E. Perkins, Shrewsbury, N. J.	Sept 16,	--
Steering vessels. John Philips and James Smallman, Phil.	Sept 18,	--
Smoked beef, machine for cutting. Seth R. Kneeland	Oct 9,	--
Sawing machine. David Parmelie, Fairfield, Connecticut	Oct 25,	--
Skins, machine for splitting and shaving. P. White, Worcester, Massachusetts	Nov 1,	--
Stoves. Augustus Graham, Fredericktown, Maryland	Nov 6,	--
Steam still and water boiler. Phares Bernard, Whitestown, N. Y.	Nov 17,	--
Steam for cooking. Hosea E. Potter, Otsego, New York	Nov 20,	--
Springs, wooden, for carriages. W. Robinson, Wilmington, Delaware	Nov 27,	--
Still, perpetual. John James Giraud, Baltimore	Dec 22,	--
Sawing machine, improvement in. Ezekiel Old and Pliny Upham, Brookfield, New York	Dec 26,	--
Steam still and boiler. P. M. Hackley, Herkimer county, N. Y.	Jan 11,	1811
Steam pump. Phares Bernard and T. Soper, Whitestown, N. Y.	Jan 16,	--
Steam boat, chain float. Michael Morrison, Boston	Jan 17,	--
Sleigh. Augustus Day, Bordentown, New Jersey	Jan 19,	--
Salts. See <i>Evaporation</i> .		
Spirits. See <i>Corn stalks</i> .		
Steam boats. Robert Fulton, New York	Feb 9,	--
Steam still. Samuel Bacon, Lanesburgh, Massachusetts	Feb 9,	--
Saw mill, descending. S. Belknap and S. Merrill, Georgetown, District of Columbia	Feb 15,	--
Steam engine. J. Stubs and N. Parsons, Chillicothe, Ohio	Feb 25,	--
Saw mill. Miles H. Abbot, Bucks county, Pennsylvania	Feb 26,	--
Starch, &c. from vegetable matter. E. Perkins, Shrewsbury, New Jersey	Feb 26,	--
Shearing cloth. Ezra Willmarth, Rumney, Massachusetts	Feb 28,	--
Screws, machine for cutting wooden. R. Hancock, sen. and Edward W. Carr, Philadelphia	March 1,	--
Stove. William Watson, Weymouth, New Jersey	March 2,	--
Shearing, cloth. Benjamin Cummings, Palmer, Mass.	March 2,	--
State, application of. W. Sheldon, jun. Springfield, Mass.	March 2,	--
Shearing, cloth. George C. Kellog, New Hartford, Conn.	March 4,	--
Sausage meat, machine for cutting. G. Neff, Dauphin county, Pennsylvania	March 19,	--
Stave and shingle machine. W. Bailey, Nelson county, Ken.	April 10,	--
Saw mills. Oliver Evans, Philadelphia	April 15,	--
Stove, kitchen. J. Sibley, New York	April 25,	--
Straw plait, machine for pressing. D. Atherton, Providence, Rhode Island	April 26,	--
Shearing cloth. Jesse Molleneuse, Hempstead, New York	April 30,	--
Shearing machine. Eleazar Hovey, Canaan, New York	May 1,	--
Steam still. John James Giraud, Baltimore	May 15,	--
Steam engine for propelling. John Stevens, New York	May 21,	--
Saw mill. Marshall Lewis, Shenango, New York	May 24,	--
Suspenders. Henry Burk, Bucks county, Pennsylvania	May 25,	--
Suspenders, spring double. Benjamin Wolcot, Danbury, Ohio	May 29,	--
Shaving shingles, machine for. Daniel Parker and John Sandford, Sharon, Connecticut	May 30,	--
Shears for shearing woollen. William Stillman, Westerly, R. I.	June 11,	--
Steam kitchen for baking, &c. Samuel Smith, Herkimer, N. Y.	June 11,	--
Staves, &c. machine for shaving and jointing. Barnabas Langdon and William Mowry, Washington county, N. Y.	June 20,	--
Steam stove. Josiah Noyes, Herkimer county, New York	June 21,	--

Spinning and winding rope yarn. C. Brig and P. Schermerhorn	July 2, 1814
Steam engine. See <i>Pendulum</i> .	
Socket and sand shovels, machine for. Jonathan Righter, Downingtown, Pennsylvania	July 23, --
Still and condenser. Richard Seely, Newark, New Jersey	July 25, --
Steam carriages. Charles Reynolds, East Windsor, Conn.	Aug 21, --
Stills and boilers. Jacob Decker, Green, Chenango county, New York	Sept 2, --
Spinner. See <i>Pleasant</i>	
Stills. Henry Witmer, Lancaster, Pennsylvania	Sept 19, --
Steam boats. James Rogers, Albany, New York	Sept 29, --
Stoves. Thomas Power, New York	Sept 17, --
Salt, making fine from coarse. C. W. Sellers, Alexandria, D.C.	Oct 11, --
Sulphuric acid. Benjamin Bell, Boston	Nov 7, --
Steam engine. Daniel Dodd, New York	Nov 29, --
Steam kitchen. John Bouis, Baltimore	Jan 6, 1812
Steel, converting pig iron into. Enoch Leonard, Canton, Mass.	Jan 6, --
Seine. See <i>Net</i> .	
Save all for saw mills. J. Hart and Lester Fling, Cheshire, New Hampshire	Jan 18, --
Steam engines. J. Curtis and Royal Yeamans, Washington	Feb 8, --
Stove, cooking. Jonathan Low, Fitchburgh, Massachusetts	Feb 24, --
Stove N. Lloyd, Philadelphia	Feb 29, --
Steam boat to be sculled. Joseph Hunt, East Chester, N. Y.	March 11, --
Spinning machine. Noel Jones, Madison county, New York	March 14, --
Shingles, machine for dressing. J. Heavin, Montgomery, Va.	March 16, --
Spinning machine. Stephen Clements, Hartford, Vermont	March 16, --
Steam engine, propelled by poles. M. Battle, Herkimer, N. Y.	March 27, --
Still, wooden, &c. R. W. Adams, Marlboro', Vermont	March 27, --
Salt, manufacturing. Ambrose Dudley, King William's county, Vermont	March 31, --
Steam boat, setting. John Evelett, Boston	April 25, --
Still head, quilted clothing for. C. Jenk, East Windsor, Conn.	April 25, --
Still head. C. Jenks, East Windsor, Connecticut	April 25, --
Shearing machine. Stephen Tredwell, Reading, Connecticut	April 27, --
Scale board, machine for cutting. J. Carrington, Litchfield, Connecticut	April 27, --
Spinning machine. Burgess Allison, Philadelphia	April 27, --
Spinning wheel. James Shaw, Herkimer county, N. Y.	April 27, --
Sawing machine. Russel Canfield, Philadelphia	May 1, --
Saw mill, cross cut. Samuel Kennedy Gore, Bradford county, Pennsylvania	May 4, --
Spinner. See <i>Linen</i> .	
Steam engine. Daniel Dodd, Elizabethtown, New Jersey	May 12, --
Screws, machine for cutting. E. Hazard and J. White, Phil.	May 15, --
Smut, machine for casting. D. Tomlinson, Brookfield, Conn.	May 20, --
Stove, fire proof stone. Abraham H. Quincy, Boston	May 21, --
Saw mills. Webb Hart, Cheshire, Connecticut	May 26, --
Shearing cloth, machine for. Walter Kennedy, Frankfort, K'y	June 12, --
Stove for heating water, &c. T. Woolson, Amherst, N. H.	July 3, --
Shearing and laying the knap of cloth, Lemuel Dickerson, Schaghticoke, New York	July 18, --
Steam engine, horizontal. Jacob W. Sexton, Burlington, N. J.	July 18, --
Spirits, purifying of. Abiel Pease and Samuel Bestor, Enfield, Connecticut	July 27, --
Steam engine. Alexander Anderson, Philadelphia	Aug 21, --
Steam washer. James Truman, Philadelphia	Aug 21, --
Steam machine to keep a wheel in motion. M. B. Parmelee, Newtown, Connecticut	Aug 25, --
Shearing cloth. Gersham Bestwick, Brookfield, Connecticut	Sept 28, --

Saw mill worked by animal power. B. Owen, Prince George's county, Virginia	Oct 1,	1812
Shearing cloth. George Booth, Poughkeepsie, New York	Oct 13,	--
Steam boats and steam engines. Dan Large and F. Grice, Phil.	Nov 12,	--
Setting saws. John Somner, Franklin, Pennsylvania	Nov 16,	--
Sulphur sublimating. Geo. Robertson, Elizabethtown, N. J.	Nov 16,	--
Spinning cotton. Nehemiah Giles, Fitchburgh, Massachusetts	Nov 19,	--
Sugar candy ware. Laurence Astolfi, Philadelphia	Nov 20,	--
Stills. Hiram Whitcomb, Cornwall, Connecticut	Nov 24,	--
Stoves, open. J. Howe and W. Lankester, Boston	Nov 25,	--
Snuff cutter or grater. John B. Partarieu, New York	Nov 30,	--
Ship building. Frederick Tudor, Boston	Dec 17,	--
Shingles. John Loomis, Geneva, New York	Dec 24,	--
Screws, machine for heading. Abel Stowell, Worcester, Mass.	Feb 4,	1813
Stove and boiler. Gabriel N. Philips, Goshen, New York	Feb 6,	--
Stove. See <i>Kitchen</i> .		
Stoves. Alfred James, Hartford, Connecticut	March 1,	--
Saw mills. Hiram Whitcomb, Cornwall, Connecticut	March 2,	--
Sifting meal. Daniel Hedman, Brookhaven, New York	March 8,	--
Screw shanks. Jacob Perkins, Newburyport, Massachusetts	March 23,	--
Stoves for boiling. Henry Abbett, Philadelphia	March 30,	--
Stoves. George Worrall, Philadelphia	March 30,	--
Steam engines. James D. Russell, Washington, N. C.	April 10,	--
Spinning and roving machine. S. Comstock and Moses Pike, Harrisburg, Pennsylvania	April 15,	--
Screws, machine for cutting. Jacob Scott, Ramapo Cove, N.Y.	May 4,	--
Shearing machine, horizontal. T. Blanchard, Sutton, Mass.	May 4,	--
Shell grenade and rocket. James Lloyd, Adams county, Penn.	May 11,	--
Shot and bullets, machine for. Peregrine Williamson, Balt.	May 12,	--
Salt, machine for boiling, &c. John J. Cabell, Lynchburg, Va.	May 28,	--
Steam engine. S. Briggs and Andrew Steel, Baton Rouge, Lou.	May 29,	--
Shingles, machine for making. Otis Paine, Foxboro', Mass.	June 18,	--
Spinning cotton. Luther Bissel, Justus Hinman, Luke C. Hinman and Benoni Gains, Hartwick, New York	June 19,	--
Still. John James Giraud, Baltimore	June 26,	--
Spoons. Jacob Perkins, Newburyport, Massachusetts	June 29,	--
Saw mills. Luther Bissel, Hartwick, New York	July 3,	--
Spinning machine, improvement in. N. Foster, Fleming, Ken.	July 8,	--
Stills. Charles F. Foster, York, Pennsylvania	July 12,	--
Screws, machine for finishing heads of. Abel Stowell, Worcester, Massachusetts	July 15,	--
Shot, tubulated cylinder. James M. Ludlum, New York	Aug 3,	1813
Still, wooden. John James Giraud, Baltimore	Aug 3,	--
Spinning wheels. Daniel Hurlbut, Aurelius, New York	Aug 4,	--
Ships, boats, &c. constructing. B. Connor, Portsmouth, N. H.	Aug 26,	--
Stills, setting. A. Gibbs, Lancaster, Pennsylvania	Aug 30,	--
Shingles, sawing. Willard Earl, Hubbardstown, Mass.	Sept 3,	--
Steam engine. S. H. Long and G. F. Hauto, Germantown, Pa.	Sept 3,	--
Skins, splitting. William Bent, Boston	Sept 9,	--
Shearing cloth, machine for. Silas Hils, Hudson, New York	Oct 22,	--
Stocking loom. Eben Herrick, Stockbridge	Oct 22,	--
Stone, machine for sawing, &c. S. B. Willard, Bloomfield, N.Y.	Nov 6,	--
Stove, spiral. Robert Roy, Warwick, New York	Nov 13,	--
Steel, made from card teeth, &c. E. Jenks, Colebrook, Conn.	Nov 13,	--
Still, &c. condensing tub. J. Wheatley, Fauquier county, Va.	Nov 13,	--
Screws, machine for cutting. John Humes, Richmond, Va.	Dec 30,	--
Sleigh shoes, steel plated. Salmon Hunt, Canaan, Connecticut	Dec 30,	--



Screws, machine for making.	Abner Burnham and Thomas S. Barnum, Sharon, Connecticut	Dec 31, --
Steam engines.	Francis B. Ogden, Essex county, New Jersey	Dec 31, --
Slates, machine for polishing.	John Coleman, Baltimore	Dec 31, --
Steelyards and scales.	Zina Phinney, Greene county, N. Y.	Jan 6, 1814
Shearing machine.	E. Durrin, Wethersfield, Vermont	Jan 21, --
Salt manufacturing.	William J. Lewis	Feb 1, --
Steam boats.	Daniel Dodd, Mendham, New Jersey	Feb 2, --
Stove, eleven plate.	Charles Postley, New York	March 7, --
Screws, cutting, &c.	D. Stearns, Brattleboro', Windham, Vt.	March 7, --
Sawyer, expeditious.	John H. Morrison, Boscowen, N. H.	March 18, --
Spinning, family billy and jenny.	E. Smith, Paris, N. Y.	March 23, --
Steam still, perpetual.	J. J. Giraud, Baltimore	March 24, --
Spinning wheel.	H. Wright and O. Roberts, Bristol, Conn.	March 26, --
Shearing cloth.	I. Sanford, Providence, Rhode Island	March 26, --
Steam tow boat, &c.	John L. Sullivan, Boston	April 2, --
Salt, manufacturing.	Thomas Hord, Caroline county, Va.	April 8, --
Stills.	Ezra Talmage, Richmond, Virginia	April 9, --
Steam engines, &c.	John Dowers, jun. Philadelphia	April 23, --
Smoke driver.	See <i>House Warmer</i> .	
Shoes, machine for cutting.	Benjamin Miller, Philadelphia	May 9, --
Still and condenser.	Ben. Hall, New Haven, Connecticut	May 13, --
Stove, baking, boiling, &c.	E. B. Coleman, New Haven, Conn.	May 13, --
Stove, family.	Joseph Tuly, Frederick county, Virginia	May 17, --
Salt, apparatus for making.	W. and J. D. Hawkins, Raleigh, North Carolina	May 26, --
Scythes, manufacturing.	Luther Dudley, Sutton, Mass.	May 27, --
Screws, &c. manufacturing.	Aaron Broad, Litchfield, Conn.	June 6, --
Salt, making.	John J. Cabell, Lynchburg, Virginia	June 10, --
Stair for bridge and ferry.	David Dunham, New York	June 23, --
Saddle trees.	Chauncey Stiles, jun. Philadelphia	June 28, --
Spinning machine, portable.	Burgiss Allison, Burlington, N. J.	June 28, --
Steam engines.	Charles Reynolds, East Windsor, Conn.	July 23, --
Sulphurate acid, cement for ceilings.	And. Scott, Newburn, North Carolina	Aug 15, --
Spoons, making.	James Ridgeway, Groton, Massachusetts	Sept 22, --
Salt, manufacturing.	Peter Sarchet, sen. Cincinnati, Ohio	Sept 27, --
Suspenders.	Martin Nelson, Philadelphia	Oct 17, --
Shingles, sawing.	Saluon Fuller, Indiana	Nov 14, --
Steam boats.	Nicholas J. Roosevelt, New Jersey	Dec 1, --
Scythe, farmer's carriage.	Theophilus Eaton	Dec 2, --
Scythe, circular.	John and Adam Rhodes, Union township, N.Y.	Dec 6, --
Shearing machine.	David Dewey, Poultney, Vermont	Dec 7, --
Steam, or stove still.	John Stone, jun. Worthington, Mass.	Dec 8, --
Steam boats, improvement in.	Wm. Thornton, Washington City, District of Columbia	Dec 23, 1814
Saw mills.	Elisha Morgan, Clinton county, New York	Jan 24, 1815
Stills.	Robert Gillespie, Seneca, New York	Jan 31, --
Sleigh shoes, cast iron.	Sylvanus Tousley, Manlius, New York	Feb 7, --
Screw cutters, circular.	Joshua Witherle, Boston	Feb 9, --
Still boiler and worm.	Thomas Weston, Peacham, Vermont	Feb 13, --
Shelling corn and threshing wheat.	Zina Phinney, Cairo, N. Y.	Feb 16, --
Saw-mills.	Henry Quin, Huntington, N. J.	Feb 21, --
Spinner, family.	John Brown, Providence, R. I.	Feb 24, --
Stop-cock.	John Morris, New Haven, Conn.	March 1, --
Screws, machine for cutting and heading.	John Mason	March 30, --
Shears for shearing cloth.	Wm. Stillman, Westerley, R. I.	April 15, --
Stoves.	Wm. T. James, Union Village, Washington, N. Y.	April 26, --
Stoves.	Charles Postley, New York	April 26, --



Steam engine. Borden Wilbor, Whitestown, New York	April 28, --
Stages, improvement in the body of. J. Smith, Lancaster, Pa.	April 29, --
Stoves. Aaron Lane	May 11, --
Spindle for spinning. Asa Jillson, Dorchester, Massachusetts	May 27, --
Spruce beer, brewing. William Bezeau, Philadelphia	June 13, --
Steam engine. Samuel Morey, Boston	July 14, --
Scale beams, &c. Allen Pollock, Boston	July 31, --
Ship building. D. M. Randolph, Richmond, Virginia	Aug 2, --
Steam engine. Junia Curtis, Baltimore	Aug 3, --
Shoemaker's bench. Joel Soper, Windsor, Connecticut	Aug 12, --
Spinning machine. Sylvanus Baldwin, Boston	Aug 18, --
Steam engine. Mathew Cluff, Norfolk, Virginia	Sept 1, --
Steam stove. Erastus Warner	Sept 12, --
Spinning wool. W. Ayres and J. Cochran, Durham, Vermont	Oct 6, --
Screw wheel for propelling. James Widdefield, Philadelphia	Oct 11, --
Saws, setting the teeth of. John Russell, Brooke, Virginia	Oct 14, --
Saddles. John Bryan, Lexington, Kentucky	Oct 24, --
Saw mill, elevating. Samuel Brewster, Middlesex, New Jersey	Oct 30, --
Stove, economical. John Graham, New York	Nov 9, --
Steelyards. Samuel Hills, Lincoln, Massachusetts	Dec 27, --
Saw mill, wind. Jesse Springer, Cape May, New Jersey	Dec 27, --
Stove. Comfort Barney, Warren, Rhode Island	Dec 27, --
Saw mills. Thomas Cohoon, Washington City	Jan 5, 1816
Stills. Joseph White, Baltimore	Jan 15, --
Steam engines. William Shultz, New York	Jan 26, --
Syphilis, cure of. Joseph Moser, Philadelphia	Jan 26, --
Salt, manufacturing of. Wm. J. Lewis	Feb 1, --
Sock, Columbian. Joseph Mason, Cunningham, Massachusetts	Feb 8, --
Spool frame. Elihu Robinson, Augusta, Massachusetts	March 6, --
Shoemaker, the. Gideon Drake, Windsor, Connecticut	March 14, --
Steam engines. John Stephens, Hoboken, New Jersey	March 14, --
Sliders for steam engines. Ditto ditto	March 16, --
Shelling corn, machine for. Jacob Fuller, Rockland, Va.	March 19, --
Salt boiling. Alexander Black, Barnstable, Massachusetts	April 4, --
Spinning wheel. E. B. Sandford, Newton, Connecticut	April 11, --
Steam, propelling boats by. Wm. Tatham, Washington City	April 18, --
Shearing cloth. H. Osborn and Wm. L. Frazer	April 25, --
Sugar, purifying and refining. B. Edme Verjon, Washington City	April 26, --
Stoves, cooking. Christ. Hoxie, Hudson, New York	May 3, --
Steam engine. Enoch Burt, Elizabethtown, New Jersey	May 12, --
Steam, extracting spirits of turpentine by. H. Kelley, Brooklyn, New York	May 17, --
Spinning wool and cotton. Peter Paddleford, Lyman, N. H.	May 18, --
Sawing shingles. Oliver Merritt, Berkhamsted, Conn.	May 22, --
Spring saddle. Charles Klasson, Baltimore	May 22, --
Shearing cloth, machine for. John D. Smith, Fredericktown, Maryland	May 24, 1816
Stove. Eliakim Cory, Milton, North Carolina	May 30, --
Steam, generating. Joseph Hawkins, New York	June 14, --
Stills. Montgomery Stevens, New York	June 17, --
Steam engine. Enoch Burt, Elizabethtown, New Jersey	June 25, --
Spooling, winding and bobbin machine. C. Flagg and O. Wright, Hudson, New York	June 29, --
Saw, radical. Samuel Fairlamb, Marietta, Ohio	July 5, --
Suspenders, buckle for. Orange Webb, New York	July 5, --
Sheaves, machine for moulding bushes for. T. R. Walworth, Paterson, New Jersey	July 15, --

Spinning machine	Zaccheus Wheeler, Richmond, N. H.	July 18, --
Saw gates.	Samuel Herrick, Clermont county, Ohio	July 21, --
Screw, cutting wood and metal.	J. Andrews, Dinwiddie county, Virginia	Aug 11, --
Steam engine.	John Hulton, Somerset, Maine	Aug 22, --
Stocking loom.	Aaron Porter, Queensbury, New York	Aug 22, --
Spinning cotton and wool, machine for.	J. Sprinkle, Wythe, Vt.	Aug 23, --
Stoves.	Thomas and Isaac Power, Hudson, New York	Aug 31, --
Stoves.	Henry F. Leibenau, New York	Sept 7, --
Suspenders.	Joseph Barnett, Philadelphia	Sept 14, --
Spinning and quilling machine.	Jacob Richardson, Scipio, N.Y.	Oct 16, --
Steam engine.	Samuel Fairlamb, Marietta, Ohio	Oct 24, --
Spinning and reeling machine.	Caleb Shelledeay and George M. Caslon, Shelbyville, Kentucky	Oct 24, --
Salt works, plan of erecting.	D. Thatcher, Tuckerton, N. J.	Oct 24, --
Steam engine.	James Rumsey, Kentucky	Nov 15, --
Steam, the machinery for.	James Rumsey, Kentucky	Nov 15, --
Steam engines.	Edward Rumsey, Kentucky	Nov 15, --
Stoves, rarefied chimney.	G. Rogers, Northampton, Mass.	Nov 18, --
Scale beams.	John Edwards, New York	Nov 19, --
Stoves.	Anthony B. Martin, Hagerstown, Maryland	Nov 26, --
Steam engines, rotary.	Isaiah Jennings, New York	Jan 17, 1817
Salt water, obtaining.	D. and J. Ruffner, Kanawha, Virginia	Jan 18, --
Straw cutting machine.	E. Hotchkiss, Brattleboro', Vermont	Jan 18, --
Scythe factory.	Benjamin and John Tyler, Claremont, N. H.	Feb 1, --
Stoves, cooking.	A. Swain, Hudson, New York	Feb 1, --
Steam engine for raising water.	William Bailey, Nelson county, Kentucky	Feb 4, --
Steam engine, rotary.	Nathan Read, Boston	Feb 21, --
Steam applied to propel carriages.	B. Langdon, Whitehall, N.Y.	Feb 22, --
Spinning wheel.	James Wright, Campbell county, Virginia	Feb 28, --
Straw cutting machine.	Samuel Whitlock, Vermont	March 3, --
Steam engine.	John L. Sullivan, Boston	March 24, --
Spinning wheels.	Nathan Lewis, Canandaigua, N. Y.	March 29, --
Stove.	Joseph P. Simpson, New York	April 5, --
Saw mill.	David and Minor Fountain, Eastern Shore, Md.	April 5, --
Stoves.	Ephraim Treadwell, Boston	April 26, --
Spinning wheel.	Timothy Cruttenden, Covington, New York	May 12, --
Shash work, machine for striking all kinds of.	J. Bliss, Somers, Connecticut	June 17, --
Slitting and sawing machine.	J. Jacquith, Sherburn, Mass.	June 26, --
Saw band or belt.	Adam Stewart, Baltimore	July 5, --
Sawing veneering, machine for.	Do. do.	July 5, --
Screw machine.	Phineas Dow and Daniel Treadwell, Boston	Aug 8, --
Straw cutting machine.	W. Ayres and H. Gay, Windsor, Vt.	Aug 13, --
Steam engine.	John Heavin, Maryland	Aug 27, --
Sugar mill.	Jean Baptiste Avcilhe, New York	Aug 28, --
Steam as propelling power to mills.	S. Briggs, New Orleans	May 28, --
Steam engine.	Israel J. Richardson, Geneva, New York	Oct 13, --
Salt, manufacture of.	Everard Hall, Princess Ann, Virginia	Nov 14, 1817
Steam boilers.	Royal Yeamans, Baltimore	Nov 20, --
Stoves, retaining the heat of.	William Phoebus, New York	Nov 28, --
Straw cutting machine.	Arnold Brayton and Henry C. Green, Cheshire, Massachusetts	Dec 5, --
Stove, or fire-place and oven.	John Rice, Hartland, Vermont	Dec 6, --
Stains, method of taking out.	Aaron Hall, Boston	Dec 31, --
Saw mill, improvement on the.	Daniel Collins, Genesee county, New York	Jan 6, 1818
Straw cutting machine.	Alpheus Bigelow, Weston, Mass.	Feb 13, --

Sand, machine for collecting.	Rufus Elliot, Georgetown, D. C.	Feb 14,	--
Steam engine, wheel regulator for the.	John L. Sullivan, Bos.	Feb 28,	--
Steam engine, supply chamber for the.	John L. Sullivan, Bos.	Feb 28,	--
Steam engine, boiler for the.	John L. Sullivan, Boston	Feb 28,	--
Smoke, machine for consuming.	John Eoff, Baltimore	March 5,	--
Stove and fire places.	John H. Lotz, Salisbury, Connecticut	March 18,	--
Stoves.	Burgess Allison, Burlington, New Jersey	April 10,	--
Steam engine, rotary.	Beardsly Hendryx and Halstead Price, Springfield, Otsego county, New York	April 13,	--
Stoves.	Robert and John Mount, New York	April 11,	--
Straw cutting machine.	S. A. Sherwood, Poughkeepsie, N. Y.	April 11,	--
Stove and cooking.	John Adams, Hudson, New York	April 16,	--
Spinning wheel.	Z. T. Bradley, Great Barrington, Mass.	April 21,	--
Steam engines.	Joseph Eve, Augusta, Georgia	May 28,	--
Sweeping chimneys.	Francis A. Everard, New York	May 28,	--
Springs for saddles.	Nathan Mixer, Keen, New Hampshire	May 28,	--
Shoemaker's bench.	John Greenhold, Westminster, Frederick county, Maryland	June 9,	--
Submarine ploughing.	J. Hendrick, Middlesex county, Mass.	June 10,	--
Spinning and roping machine.	John Brown, Providence, R. I.	June 12,	--
Sugar cane, machine for grinding.	John Gotlieb Brethler, New Orleans	June 13,	--
Stone, machine for sawing.	John Sullivan Dwight, Boston	June 27,	--
Salt, manufacturing by freezing.	G. Munger, New Haven, Conn.	June 23,	--
Spring saddles.	Samuel M. Leaming, Lexington, Kentucky	July 6,	--
Steam engine.	William Church, Baltimore	July 11,	--
Stove for cooking.	James Lamb, Hartford, Connecticut	July 17,	--
Stoves, improvement in his patent.	Aaron Lane, New York	Sept 15,	--
Sweeping chimney, machine for.	Aaron Lane, New York	Sept 22,	--
Stove pipes, improvement in making.	John Cudlip and George Price, Baltimore	Nov 18,	--
Sample box.	George P. Oakly, Poughkeepsie, New York	Nov 25,	--
Steam engine, improvement on Morey's.	J. L. Sullivan, Boston	Dec 10,	--
Sweeping chimneys.	William Hall, New York	Dec 19,	--
Sinking wells, &c.	Tobias Ruffner, Kanawha, Virginia	Dec 22,	--
Spinning wheel.	Henry Wilson, Ontario county, New York	Dec 29,	--
Spindle and bobbin for cotton.	W. B. Leonard, Fishkill, N. Y.	Jan 9, 1819	--
Shooting by steam.	Samuel Morey, Orford, New Hampshire	Jan 19,	--
Stoves, by leading the flame through wire gauze.	Samuel Morey, Oxford, New Hampshire	Jan 20,	--
Stirrups for saddle.	Daniel Adams, Keene, Cheshire county, New Hampshire	Feb 13,	--
Shovels for barns, &c.	John Brower, Berks county, Penn.	Feb 19,	--
Steelyard.	Jacob Bartholomew, Middlebury, Vermont	Feb 27,	--
Straw cutting machine.	Giles Dayton, jun. Springfield, Mass.	March 18,	--
Seat saddles, elastic.	W. Harper, Nashville, Tennessee	April 2,	--
Spinning wheel head.	J. Mudge and Milo Hatch, Cheshire, New York	April 10,	--
Spring for carriages.	George Norton Reynolds, Charleston	April 30,	--
Spinning frame.	Paul Moody, Boston	May 6,	--
Sugar and molasses from wheat.	J. Wisheart, Wayne county, Indiana	May 25, 1819	--
Steam engine, rotary.	Antoine Batley, New York	May 26,	--
Steam engine, rotary.	Robert Thomas, Richmond county, N.C.	May 29,	--
Snuff, manufacturing.	Thomas Baldwin, New Castle, Del.	June 22,	--
Saddles, improvement in.	Peter Dixon, Philadelphia	July 16,	--
Spiral wheels for mills.	Z. Hiatt, Wayne county, Indiana	Aug 20,	--
Sausage meat, machine for cutting.	George B. Craft, Redstone, Fayette county, Pennsylvania	Oct 9,	--

Ship's buttons, composition for. W. Russell, jun. New Bedford, Massachusetts	Nov 8, --
Shoeing sledges, &c. William Barton, New York	Dec 13, --
Screw, Archimedean. James Cooper, Augusta, Virginia	Dec 14, --
Square, carpenter's. Silas Hawes, Bennington, Vermont	Dec 15, --
Straw cutting machine. Lemuel Green, Green county, Geor.	Dec 21, --
Steam engine, improvement in. Charles Lee, Ross county, Ohio	Jan 22, 1820
Spruce beer, improvement in. John William, Cambridge, Mass	Feb 17, --
Saddles, elastic seat. Peter H. Martin, Nashville, Tennessee	Feb 23, --
Stove, cooking. Israel Keyes, Putney, Vermont	Feb 23, --
Ship building. Abel Brewster, Hartford, Connecticut	March 6, --
Sugar, improvement in making. Henry Fry, Harrisburg, N.Y.	April 6, --
Stoves, stills, and boilers, improvement in. John James Giraud, Baltimore	April 19, --
Stove for cooking. Nathan Winslow, Portland, Maine	May 3, --
Straw bonnets, pressing. Eleazar Smith, Walpole, Mass.	July 15, --
Spinning wheel, linen. Benjamin Simmons, Paris, New York	July 20, --
Smut machine. James Gillespie, Middletown, Connecticut	Aug 23, --
Stove, open circular. Richard Berrian and Francis Class, N.Y.	Aug 30, --
Shovel plough. John Balthorpe. Loudoun county, Virginia	Sept 20, --
Sewer, mouth and stench trap. A. Ramsey, Philadelphia	Oct 3, --
Smut machine. Daniel Pease, jun. Wingfield, New York	Oct 31, --
Swinging frame for shoeing horses. Joseph Kirk, Weston, Vt.	Nov 8, --
Saddles, improvement in. Elihu Walker, Aurora, New York	Nov 16, --
Sleighs, machinery for. Jacob Fisher, Kennebeck, Maine	Dec 30, --
Steam, improvement in the application of. Aaron Niles Sabin, Frankfort, Kentucky	Dec 30, --
Spinning cotton and wool, machine for. John Brown, Providence, Rhode Island	Jan 23, 1821
Steam engine, improvement in the vibratory. P. Davis, York, Pennsylvania	Feb 17, --
Shoes and boots, cutting by rule. Simeon Hart, Monkton, Vt.	March 3, --
Steam engines, improvement in the. Minus Ward, Columbia, South Carolina	March 23, --
Sifting lime, &c. machine for. E. Blanc and B. H. B. Latrobe, New Orleans	April 14, --
Saddles, improvement in. Peter Dixon, Philadelphia	April 25, --
Smutting or hulling machine. Stephen Cooke, Marcellus, N. Y.	Aug 7, --
Steam wheel, improvement in the. Amos Thayer, jun. Albany, New York	Aug 8, --
Sweeping chimneys. John W. Moore, Washington, D. C.	Aug 8, --
Smut machine, improvement in the. F. Woodward, Butter-nuts, New York	Aug 10, --
Sail cloth, improvement in manufacturing. James Richards, Paterson, New Jersey	Aug 10, --
Spinner, vertical. John Brown, Providence, Rhode Island	Aug 11, --
Saw mill, improvement in. John Bruff, Somerset county, Md.	Aug 16, --
Saddles, improvement in. John G. Morris, New York	Aug 28, --
Spinning wool, &c. improvement in the machine for. William Bushnell and J. Altoffer, Harrisburg, Virginia	Aug 30, --
Sector, improvement in the plane sliding. G. H. Thompson, Boston	Dec 4, --
Stoves, improvement in. John Tasker, Philadelphia	Feb 3, --
Seeds, improvement in cleaning. David S. Buck, Hurley, N.Y.	Feb 10, --
Steam boat, canal. Rober Huginin, Albany, New York	March 1, --
Steel, mode of making cast. Samuel Collins, Troy, N. Y.	April 10, --
Shelling corn, machine for. Chauncey Bulkley, Manchester, Vt.	May 25, --
Steam boiler. cast iron. John R. Averill. Manchester. N. Y.	May 27, --



Settingsaw teeth, improvement in.	Webb Hart, Camden, S.C.	Dec 7, 1821
Scythes, improvement in.	Ephraim Kimball, jun. Fitchbury, Massachusetts	Jan 17, 1822
Steam engine, rotary.	John Lansing, jun. and A. Thayer, Albany, New York	Jan 19, --
Straw cutting machine.	Jonathan S. Eastman, Baltimore	Jan 29, --
Shoes, socks, &c mode of making.	S. Norris and J. C. Wood, Philadelphia	Jan 30, --
Scythes, mode of finishing.	Charles M'Namara, Northbridge, Massachusetts	Jan 30, --
Spring sofa, bed, couch, settee, &c.	S. Blair, New Haven, Conn.	Feb 2, --
Steam engine, improvement in the.	Thomas Hatton, Phil.	Feb 28, --
Stove, cooking.	Philologus Holley, Red Hook, New York	March 1, --
Saddle-trees, machine for making.	Reuben Fairchild and Eben Fairchild, Fairfield, Connecticut	March 6, --
Stove, improvement in the cooking.	John J. Pierce, Greenfield, Massachusetts	March 11, --
Spinning woollen yarn, improvement in.	John Sharp, Whites-town, New York	March 13, --
Spring shuttle spindle, improvement in the.	Samuel Cranston, Cumberland, Rhode Island	March 20, --
Stove pipe, improvement in making.	Wm. W. Weaver, Phil.	April 16, --
Scraper, or team shovel.	Elisha Case, Canton, Connecticut	April 23, --
Saw mill, improvement in the.	Thomas White, Chester district, South Carolina	April 27, --
Smut machine, &c. improvement in the.	Jedediah Tallman, Oneida county, New York	May 8, --
Stove, improvement in the.	James Barron, Norfolk, Virginia	May 14, --
Stove, improvement in the.	B Seymour and A. C. Bettis, Utica, New York	May 25, --
Splitting skins and pelts.	William Bent, Philadelphia	June 17, --
Stove for burning Lebeigh coal.	Robert M'Minn, Philadelphia	June 24, --
Spindle (trostle) for cotton.	Charles Lewis and George Taylor, Poughkeepsie, New York	June 26, --
Steam expander.	David M'Allister, Brookfield, Vermont	July 15, --
Saddle-trees, improvement in.	Anthony Null, Philadelphia	Aug 29, --
Sugar, machine for breaking.	James Mitchell, Philadelphia	Sept 11, --
Sleigh shoes, improvement in.	Seneca Pettee, Salisbury, Conn.	Oct 1, --
Seat, elastic spring carriage.	Jona. Nichols, Providence, R. I.	Oct 2, --
Stills, improvement in.	Baltazar J. Kallenback, Philadelphia	Oct 17, --
Stoves for burning Lebeigh coal, &c.	Philip S. Mingle, Phil.	Oct 24, --
Saws, instrument for setting.	Joseph Beach, Middletown, Conn.	Oct 28, --
Steel, improvement in the art of making cast and wrought.	Horatio G. Spafford, Albany, New York	Oct 30, --
Stoves, improvement in the foot.	Julia Plantou, Philadelphia	Nov 4, --
Sawsetter, improvement in the.	David C. Jordan, New York	Dec 2, --
Salt, improvement in the mode of making.	Cadwallader D. Colden, New York	Dec 14, --
Sawset, improvement in the.	Rufus Grandy, New York	Dec 21, --
Shingles, machine for making.	Willard Earl, Boston	Dec 28, --
Stills, worms for.	Chester Cook, Paris, New York	Jan 11, 1823
Stone, machine for sawing and smoothing.	Nat. Holmes, Barnstable, Massachusetts	Jan 24, --
Scythes, mode of finishing.	Charles M'Namara, Northbridge, Massachusetts	Jan 31, --
Saddle-tree, improvement in the.	Peter Harry, Harrisonburgh, Virginia	Feb 1, --
Scraping and cleaning chimneys.	Mathew Benson, Ohio	May 15, 1823



Saddle-tree, improvement in the.	Christopher Kurtz, Penn.	May 28, --
Sick, &c. machine for raising into various positions the.	Jos. C. Jenckes, Providence, Rhode Island	May 29, --
Seat for wagons, chairs, &c.	Sherman Blair, New Haven, Conn.	June 20, --
Steam engine, improvement in the rotary.	James Thompson, Pittsburg, Pennsylvania	July 16, --
Spring cushions, beds, &c.	Sherman Blair, New Haven, Conn.	Aug 1, --
Spring saddle-tree.	Joseph and William Dinwiddie, Campbell county, Virginia	Aug 8, --
Steam engine, converting a rectilineal into a rotary motion.	John Y. Savage, Raleigh, North Carolina	Aug 9, --
Steam carriage, construction of the.	Lewis Bigelow, Mass.	Aug 29, --
Stove for burning stone coal.	George J. Fougeray, Phil.	Sept 11, --
Stove, improvement in the common.	Louis Goujon, Phil.	Sept 22, --
Spiral wheel, improvement in the.	Abner Vansant, Jefferson county, Missouri	Sept 29, --
Spinning cotton, improvement in.	William Bryant, Mill Creek, Tennessee	Sept 30, --
Steel, mode of converting iron into.	Eleazar L. Losey, New Brunswick, New Jersey	Nov 20, --
Shears, with curved edges.	Samuel Fry, New York	Nov 27, --
Straw cutting machine, improvement in.	John Osborn, Blandford, Massachusetts	Dec 6, --
Stove for cooking, improvement in the.	John Conant, Brandon, Vermont	Dec 13, --
Shingles, machine for manufacturing.	Manasseh Andrews, Livermore, Massachusetts	Dec 29, --
Stove, improvement in the.	J. Talcott and J. McCulloch, Smyrna, New Jersey	Jan 26, 1824
Spinning, improvement in wool.	Gilbert Brewster, Norwich, Connecticut	Feb 27, --
Spinning wheel, improvement in the.	Charles P. Schaffle, Lewisburg, Pennsylvania	Feb 28, --
Salt, improvement in making fine and coarse.	Joseph P. Rositer, Salina, New York	March 2, --
Stoves, improvement in cooking.	James Wilson, N. Y.	March 13, --
Spindle for the throstle.	Gilbert Brewster, Norwich, Conn.	March 13, --
Spinning wool, improvement in.	Ditto ditto	March 13, --
Spring saddle, improvement in.	Nathan W. Conklin, Jamaica, New York	March 27, --
Spinning wheel.	Grey Brooks, Athol, New York	April 2, --
Steam generator.	Joseph Dixon, jun. Philadelphia	April 13, --
Stoves, improvement in cast iron.	William T. James, N. Y.	April 23, --
Scaffolds, machine for raising and supporting.	Henry M. Nichols, Burlington, Vermont	April 24, --
Saw-mill saw, machine for filing.	Solomon Morse, Sempronius, New York	April 24, --
Steam engine, improvement in the rotary.	Royal N. Powers, Cincinnati, Ohio	April 29, --
Steam engine, improvement in the.	Ralph Bulkley, N. Y.	April 30, --
Steam of high temperature, generating.	John Babcock, Portsmouth, Rhode Island	May 1, --
Shingles, machine for making.	James Sawyer, Templeton, Mass.	May 4, --
Safety-ark.	William Hollins, Baltimore	May 4, --
Steam engine, improvement in the.	Henry Lainheart, jun. New Orleans	May 6, --
Straw, machine for cutting.	Robert J. Steele, Richmond county, North Carolina	May 24, --

Spinning machinery, cotton. William Haworth, Providence township, Pennsylvania	June 2, 1824
Spinning, in the carriage of the mule for. W. Haworth, Providence township, Pennsylvania	June 2, --
Steam, mode of generating. David B. Lee, Philadelphia	June 9, --
Straw cutting machine. Major M'Donald, Topsham, Mass.	June 10, --
Side saddle, improvement in the double. Hugh M. Rose, Lexington, Kentucky	June 19, --
Sliding joint for settees, &c. Isaac Jennings, New York	June 25, --
Spinner, horizontal. C. Merrill, B. Batchellor and S. King, jun. Lowville, Lewis county, New York	July 3, --
Steam engine, rotary. Anthony Cooley, Le Roy, New York	July 29, --
Smut machine, &c. Phineas Pettis, Tallmadge, Ohio	Aug 12, --
Spinning and roping machine. Z. Knox and Willis Hoskins, Lowville, Lewis county, New York	Aug 16, --
Spinning, domestic machine for. Elias Wood, Lowville, N. Y.	Sept 3, --
Sausage stuffing machine. Andrew Glendening, Loudoun county, Virginia	Sept 9, --
Saw plates, manner of making. James Cloud, Chester, Penn.	Sept 8, --
Steam engines producing steam for. Joseph Buchanan, Lexington, Kentucky	Sept 13, --
Steam, mode of generating and applying. Stephen T. Conn, Washington county, Virginia	Sept 27, --
Selvage, double stitched. J. A. Wadsworth and E. Wadsworth, Portsmouth, Rhode Island	Oct 5, --
Spinner, wool and cotton. Francis Price, New York	Oct 5, --
Spinning wool, machine for. Laffered Totten, Schoharie, N. Y.	Nov 13, --
Steam engine, improvement in the rotary. John Gilbert, Le Roy, New York	Nov 17, --
Steam, drying floors for kilns, &c. George G. Moore, N. Y.	Dec 4, --
Steam and gas engine, improvement in the. Maximin Iznard, New York	Dec 11, --
Steam, mode of generating. B. F. Joslin, Schenectady, N. Y.	Dec 16, --
Salt, mode of manufacturing. Peter Cooper, New York	Dec 23, --
Shelling, riddling and fanning. R. Humphrey, Harpersfield, N. Y.	Dec 24, --
Spinning machine, improvement in the. H. Hunt and C. Bra-dish, Lowville, New York	Dec 24, --
Stave dresser and cross cutting jointer. John R. Averille, Manchester, New York	Dec 29, --
Salt, improvement in the manufacture of. Daniel Garrard, Clay county, Kentucky	Dec 28, --
Spinning wool, improvement in. John Griggs, jun. Ashford, Connecticut	Dec 30, --
Spinning, improvement in. Sidney Whiting, Wrentham, Mass.	Dec 31, --
Spiral spring latch, improvement in. Abraham Blauvelt, New Brunswick, New Jersey	Feb 9, 1825
Shovels and spades, improvement in. James Wood, Phil.	Feb 10, --
Shot, screening. John W. Honey, Herculaneum, Missouri	Feb 10, --
Stove pipe, manufacturing. John Colby, Salsbury, Mass.	Feb 16, --
Shovel for removing earth, &c. Ths. Pierce, Hartwick, N. Y.	March 3, --
Steam engine, improvement in the. Isaiah Jennings, N. Y.	March 15, --
Springs, making transverse. N. A. Stoddard, Pawlett, Vt.	April 2, --
Spinning wool, improvement in the machine for. S. Slater, Middletown, Connecticut	April 4, --
Slitting machine. Jesse Reed, Marshfield, Plymouth, Mass.	April 21, --
School rooms, buildings for. S. W. Taylor, and J. W. Martin, Lowville, New York	April 16, --
Spinning machine. Richard Woolsey, Kortright, New York	May 13, --
Stoves. Thomas Wentworth, Oswego, New York	May 18, --
Spinner, improvement on Brown's vertical. J. R. Wheeler and J. B. Wheeler, Kingsbury, New York	May 26 --

Stove or grate for Lehigh and other coals. John Lovatt, Phil.	June 16, 1825
Spirits, rectifying by steam. Jonathan Shaw, Southport, N. Y.	June 21, --
Salt, manufacturing by steam. Benjamin Barlow, Geddes, N. Y.	June 25, --
Spinning wool and cotton A. S. Wiltse and J. Farnham, the former of Carolina, the latter of Tioga, New York	June 28, --
Salt, making. William Barker, Smithfield, Rhode Island	July 20, --
Steam boat guard or fender. E. C. Genet, New York	Sept 9, --
Salt, making. Calvin Guiteau, Geddes, New York	Sept 9, --
Saw, compound rotary. Adam Stewart, Boston, Mass.	Sept 29, --
Steam engine. William Avery and H. Scoville, Pompey, N. Y.	Sept 30, --
Saddles. Thomas G. Prettyman, Alexandria, D. C.	Sept 30, --
Saddles. Lacy White, New York	Sept 30, --
Saw mills. Ebenezer Whiting, Ithaca, New York	Nov 1, --
Steam power, mode of applying direct. Robert Dennis, Rahway, New Jersey	Nov 3, --
Springs for carriages. Hazard Knowles, Colchester, Conn.	Nov 4, --
Straw, machine for cutting. Benjamin A. Hall and Chauncey Hall, Middletown, Connecticut	Nov 7, --
Steam engine, rotary. J. R. Averill and F. Hoard, Rochester, New York	Nov 12, --
Shingles, machine for sawing. Jonathan Culver, Norfolk, N. Y.	Nov 15, --
Steam engine, elementary. Timothy Beach, Deer creek, Ohio	Nov 16, --
Safety valve, the alarm or. William S. Gillett, Lower Three Runs, South Carolina	Nov 16, --
Steam enginery. John A. Wadsworth, Portsmouth, R. I.	Nov 23, --
Saw mill. Isaac Ryon, Bridgewater, Massachusetts	Nov 24, --
Steam, by the use of anthracite in generating. Mahlon Betts, Wilmington, Delaware	Nov 26, --
Shelling machine. Christopher Hoxie, Hudson, New York	Dec 8, --
Screws, making wooden square. James Lynch, Pulaski, Tenn.	Dec 12, --
Shingle mill. Ephraim Parker, Fitzwilliam, New Hampshire	Dec 17, --
Steam, improvement in the application of. Michael Musselman, Phelps, New York	Dec 29, --
Spinner, horizontal. J. S. and B. J. Billings, Moreau, N. Y.	Jan 16, 1826
Sawing boards, machine for. Wm. Kendall, jun. Waterville, Me.	Jan 16, --
Sawing shingles, machine for. Willard Foster, Oswego, N. Y.	Jan 25, --
Saw mill. Israel Johnson, jun. Villenovia, New York	Feb 8, --
Steam pump. George W. Long, Old Point Comfort, Virginia	Feb 16, --
Steam still. James G. Foley, Harrisburg, Pennsylvania	Feb 23, --
Spinning wool and cotton. J. R. and J. B. Wheeler, Galway, N. Y.	March 3, --
Steam engine for boats. George Denning, Niagara, New York	March 10, --
Stumps and stones, raising. Abiezer H. Whitney, Bowdoinham, Maine	March 15, --
Spinning machine. George W. Robinson, Providence, R. I.	March 16, --
Steering wheel for vessels. J. M. Brown, Boston, Mass.	March 24, --
Slitting timber machine. William Barker, Kingston, Pa.	March 25, --
Steam, wind and water combined with. Isaac Garretson, Bellefontaine, Ohio	March 25, --
Slitting and rolling iron mills. Timothy Allen, Plymouth, Mass.	April 5, --
Sawing shingles, machinery for. Oliver Goddard, Bridgeton, Me.	April 6, --
Saw for making fret work for the backs of chairs. Ed. and Ch. Booth, Southbury, Connecticut	April 22, --
Splicing cotton and woollen rolls. Gardner Barton, jun. Shaftsbury, Vermont	April 22, --
Steering vessels, machinery for. S. G. Clarke and G. Stimpson, Charleston, Massachusetts	April 26, --
Steam boats for shallow water. Benjamin Phillips, N. Y.	April 28, --
Spinner, horizontal. B. Hunt and S. Wheelock, Knox, N. Y.	May 2, --
Spinning jenny. James Mathews, Schenectady, New York	May 2, --
Sponges for refinery. John Gethen, Philadelphia, Penn.	May 16, --

Spinning machine, family. J. Watt, F. A. Priest and G. Freeborn, Jefferson county, Ohio	May 20, 1826
Steam packed rotary steam engine. S. Fairlanb and D. Bruce, jun. New York	May 25, --
Springs to the seat of a wagon. Walter Janes, Ashford, Windham county, Connecticut	June 6, --
Spinning wool, tow and cotton, machine for. J. Corrill and W. P. Rogers, Harpersfield, Ohio	June 15, --
Shaving and smoothing wood, machine for. Abraham Brownson, Lockport, New York	June 21, --
Spinning flax and hemp, machine for. Wm. Hunt and Wm. Hoskins, Martinsburgh, New York	June 22, --
Sawing wood, slitting boards, &c. Barnabus Ruggles, Poultney, New York	June 29, --
Steam generator, Franklin duplex. John M'Curdy, Plymouth, England	July 1, --
Steering wheel for vessels. E. S. Coffin, Boston, Mass.	July 10, --
Steering vessels, apparatus for. R. Kinsbury and E. Rowse, Bath, Maine	July 10, --
Salt, mode of manufacturing. Stephen T. Conn, Georgetown, District of Columbia	July 12, --
Steam generator. Stephen T. Conn, Georgetown, D. C.	July 20, --
Steam saw mill. Reuben Nichols, New Orleans	July 21, --
Spinning wool and cotton. Joseph Hathaway, Poultney, N. Y.	July 24, --
Steam, application to furnaces. Cotton Foss, Madison township, Ohio	Aug 2, --
Steam, plan for working twice over. Joseph H. Laning, Nashville, Tennessee	Aug 12, --
Sawing circular timber. Benj. Overman, Greenboro', N. C.	Aug 15, --
Seine twine, &c. mode of laying. Jos. Clarkson, Baltimore, Md.	Aug 16, --
Spools or trussels, bobbins, improvement in. T. Van Riper, Paterson, New Jersey	Aug 16, --
Steam engine, improvement in. Joseph Eve, London, England	Aug 16, --
Steam washer, for cleansing clothes. William Burton, jun. Ansville, New York	Aug 16, --
Suspenders, improvement in. Benjamin Wilse, Utica, N. Y.	Aug 19, --
Saw setting, improvement in the mode. Joseph K. Schreiner, Philadelphia	Aug 19, --
Spinning and roping cotton and wool. John R. and Joseph B. Wheeler, Galway, New York	Aug 28, --
Stock, jubilee. W. J. Cantelo and R. M. Kerrison, New York	Aug 30, --
Siageing or dressing cloth. A. Robeson, New Bedford, Mass.	Sept 8, --
Screw boot tree. George Nichol, Madison C. H., Virginia	Sept 8, --
Stone ware, improvement in burning. Sanford S. Perry, Troy, New York	Sept 12, --
Saw mill, improvement in the horse. Solomon R. Johnson, N. Y.	Oct 25, --
Steam engine, improvement in the. Elisha Bigelow, Baltimore	Nov 6, --
Steam engine, improvement in the rotary. Elijah H. Reid, Lancaster, Kentucky	Nov 10, --
Steam generator. Dan. Phelps, Bath, Steuben county, N. Y.	Nov 14, --
Spinning, machine for. Joseph Woodhull, Chester, N. Y.	Nov 14, --
Steam engine, double atmospheric. William Willis, Charleston, South Carolina	Nov 14, --
Spinning wool, &c. machine for. Lafford Totten, Schoharie, N. Y.	Nov 22, --
Saddle tree, improvement in making. George Wilkes, Fredonia, Indiana	Nov 22, --
Screw used in propelling machinery. W. H. Godfrey, Rochester, New York	Nov 27, --
Steam saw mill, locomotive. W. G. Berry and J. T. Osborn, Cincinnati	Nov 26, --
Spools and forks, in the manufacture of. Wm. Gale, N. Y.	Dec 7, --



Spinning wool and cotton, machine for. Seth Boyden, Foxborough, Massachusetts	Dec 7, 1826
Saw, circular reacting. William Avery, Cazenovia, New York	Dec 8, --
Sawing veneers, mill for. John P. Allen, Manchester, Mass.	Dec 8, --
Steam, mode of preventing accident from. John J. Giraud, Balt.	Dec 12, --
Slate dresser, improvement in the. J. M. Porter and P. H. Mattes, Easton, Pennsylvania	Dec 22, --
Stills, improvement in the construction of. Edmund Capen, Bos.	Jan 17, 1827
Steam, improvement in the mode of generating. Levi Silliman, Albany, New York	Jan 19, --
Stirrup, improvement in the. Daniel Powles, Baltimore	Jan 26, --
Straw cutting machine, in the. Thomas Benbow, Guilford county, North Carolina	Feb 6, --
Salt, improvement in the mode of making. Benajah Byington, Salina, New York	Feb 21, --
Ships and vessels, mode of constructing. Thomas W. Bakewell, Cincinnati, Ohio	Feb 21, --
Suspenders, in the manufacture of. Abm. L. Van Horne, Phil.	Feb 22, --
Sofas, or portable bedsteads. Chester Johnson, Albany, N. Y.	Feb 24, --
Shovels, improvement in making. Oliver Ames, Easton, Bristol county, Massachusetts	March 5, --
Stone, mode of making artificial. Louis Matthey, Brooklyn, New York	March 7, --
Straw cutting machine, &c. Calvin Chamberlin, America, N.Y.	March 15, --
Stoves, improvement in the domestic cooking. David Westfield, New York	March 24, --
Stoves, improvement in the domestic cooking. Joseph R. Page, Philadelphia	March 24, --
Shingles, improvement in manufacturing. Paul Hawes, Lockport, New York	March 30, --
Spinning machine, improvement in the. Nathaniel Reminton, Geneva, New York	April 21, --
Steam engine, improvement in the. George Fleming, Goochland C. H. Virginia	April 24, --
Scraper or steam shovel, improvement in the. G. Davis and J. Price, Lockport, New York	May 12, --
Steam engine, improvement in. E. A. Lester, Boston, Mass.	May 14, --
Stocks, improvement in. Joseph Towson, Baltimore	May 14, --
Steam power, employment of heated air to. Minus Ward, Balt.	May 15, --
Stoves, improvement being in funnel. Hiram Wales, Randolph, Massachusetts	May 18, --

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Thrashing of grain and corn. Samuel Mullikin, Philadelphia	March 11, 1791
Thrashing of wheat, &c. Wm. Thomson, Richmond, Va.	Aug 2, --
Thread, spinning and twisting. Obad. Herbert, Mount Pleasant county, New Jersey	Jan 23, 1792
Tobacco manufacturing. C. Batterman and J. Caldwell, Albany, New York	Jan 26, 1793
Tallow lamp. See <i>Lamp</i> .	
Thrashing of grain. William Hodgson, Virginia	April 28, 1794
Thrashing machine. James Wardrop, Ampthill, Virginia	Nov 5, --
Teeth, improvement in extracting. Thomas Bruff	July 1, 1797
Tobacco, improvement in cutting. Apollos Kinsley	Aug 12, --
Thrashing grain, improvement in. Richard R. Elliot	Nov 16, --
Tide, regulation of the other spiral wheel. John Martin	April 27, 1798
Thrashing wheat, &c. machine for. Thomas C. Martin	June 2, --
Tobacco, machine for cutting. Peter Lorillard	June 28, 1800
Telegraph. Jonathan Grout, jun. Belcherstown, Mass.	Oct 24, --
Tournequet axle. Joseph Strong	Jan 29, 1800



Time piece, improvement in. Simon Willard	- -	Feb 8, 1802
Thrashing and cleaning wheat, improved machine for. Ezekiel Miller	- -	July 19, --
Trigonometrical quadrant, improvement in. James Templeton	- -	Aug 17, --
Tide power, obtained from its rising and falling. John Staples, Flushing, Long Island, New York	- -	March 18, 1803
Time pieces, improvement in. David F. Lacey, Phil.	- -	March 21, --
Thrashing machine. Jedediah T. Turner	- -	Oct 19, --
Twilling machine for pricking leather for cards. Phiney Earl, Leicester, Massachusetts	- -	Dec 6, --
Thrashing and cleaning grain, machine for. Thomas Barnet	- -	Feb 21, 1804
Twisting mill. See <i>Spinning</i> .		
Tow for paper, machine for preparing. Abraham Frost	- -	March 19, --
Tablets, composition for. Ames D. Allen	- -	May 10, --
Thimbles, improvement in making. A. Spencer, New London, Connecticut	- -	June 8, --
Thrashing machine, improvement in. James Deneale, Prince William county, Virginia	- -	Nov 20, --
Transporting carriages. See <i>Carriages</i> .		
Tin ware, mode of manufacturing. B. Langdon, St. Albans, Vt.	- -	May 4, 1805
Tiles, brick, &c. apparatus for making. William Hodgson, Richmond, Virginia	- -	May 10, --
Types, machine for casting. William Wing, Hartford, Conn.	- -	Aug 28, --
Tub mills. Charles McLean and Solomon Loomis	- -	Sept 25, --
Tow, machine for preparing and hackling. James Tatterton, Southampton, Long Island	- -	Dec 7, --
Tansey. See <i>Essence</i> .		
Tilt hammers. John F. Gould	- -	March 8, 1806
Transverse sleigh. Levi Rogers, Berwick, Massachusetts	- -	Feb 4, 1807
Truss, accommodating bolted for ruptures. John Beath, Boston	- -	Feb 7, --
Tilting wagons. A. Hobart, Braintree, Massachusetts	- -	Feb 17, --
Trip hammer, with a perpendicular handle. Joel Foy, jun. Middlesex, Massachusetts	- -	Feb 25, --
Thimbles for the sails of ships. I. Jennings, New York	- -	Nov 20, --
Thrashing machine. Benjamin B. Bernard, Virginia	- -	Nov 30, --
Thrashing and cleaning grain. Simon Willard, jun. Hudson, New York	- -	Nov 30, --
Trimming straw plat for bonnets. E. Smith, Franklin, Mass.	- -	March 30, --
Tanning. Samuel Parker, Bellerica, Massachusetts	- -	July 9, --
Tub mill, rolling. Samuel Bartlett, East Windsor, Conn.	- -	July 19, --
Tailors' bench. William Burtis, New Brunswick, N. J.	- -	Oct 3, --
Thrashing and winnowing machine. L. Hock, Frederick county, Maryland	- -	Feb 15, 1809
Thrashing machine. Robert Patton, Columbia, Pennsylvania	- -	Feb 17, --
Tobacco, mode of curing. John Robinson, Charlotte, Virginia	- -	Feb 25, --
Thrashing machine. Samuel Conden, New Hartford, Conn.	- -	March 3, --
Telegraph. William Schuitz, Baltimore	- -	June 14, --
Tewel. See <i>Water back</i> .		
Trigonometer or trigon. William Chamberlin	- -	June 28, --
Truss, spiral. Philip A. De Savignac, New York	- -	July 13, --
Truss for ruptures. J. Cerneau, New York	- -	Aug 17, --
Twisting frames. See <i>Delaware</i> .		
Table bureau, dressing. Nathaniel Beary, Boston	- -	Oct 13, --
Trip hammer. John Smith, Otsego, New York	- -	Oct 14, --
Thrashing and cleaning grain. Joseph Coppinger, Baltimore	- -	Oct 31, --
Thrashing machine. J. Meriwether Syme, Richmond	- -	Nov 29, --
Thrashing machine. Asa Cady Florida, New York	- -	Dec 27, --
Trip hammer. Ezra Osborn, Berkshire, Massachusetts	- -	Jan 8, 1810
Thrashing machine. Joseph Comfort, Bucks, Pennsylvania	- -	Jan 25, --
Thrashing machine. John Comfort, Bucks, Pennsylvania	- -	Jan 25, --
Thrashing machine. Joseph Beach, Northfield, Massachusetts	- -	March 30, --

Thrashing Machine.	Isaiah Jennings, Brookfield, New York	March 30, 1810
Tubes for aqueducts, earthen.	James Ramsay, Burke, Vt.	April 4, --
Trip hammer.	Elisha Downer, Duceyter	April 11, --
Turnpike gate.	Jeremiah Brainard, Canaan, New York	April 16, --
Trip hammer.	Oliver Ames, Plymouth, Massachusetts	April 25, --
Tobacco, mode of manufacturing.	P. Lorillard, New York	April 25, --
Tenons, machine for cutting.	E. Bashford and E. Johnson, Livermore, Massachusetts	April 23, --
Tide mill.	John P. Swain and Jacob Skinner, Roxbury, Mass.	May 17, --
Trip hammer.	Joseph Hines, Providence, Rhode Island	June 16, --
Tanning hides.	Ed. Seter, Delaware county, Pennsylvania	Aug 16, --
Thrashing and fanning, machine for.	Ezekiel Miller and John Anderson, Westmoreland, Oneida, New York	Aug 15, --
Tan bark, machine for cutting.	C. Griswold and Hosea E. Potter, Otsego, New York	Nov 20, --
Tanning, heating water for.	A. Henderson, Great Barrington, Massachusetts	Nov 24, --
Thrashing machine.	Daniel C. Arnold, Baltimore	Dec 15, --
Tanning leather.	Nath. Burley, Stafford, New Hampshire	Jan 24, 1811
Type mould, Arch.	Binny, Philadelphia	Jan 29, --
Types, mode of smoothing, &c.	Arch. Binny, Philadelphia	Feb 4, --
Thimbles, making rims for, &c.	Stephen Chandler, New York	Feb 4, --
Thrashing machine.	James W. Walker, Wilmington, N. C.	Feb 9, --
Trip hammer.	John Goulding, Leicester, Massachusetts	March 1, --
Thrashing machine.	R. C. Van Hauton, New York	March 28, --
Tanning leather.	Joseph Barker, Deerfield, Oneida county, New York	April 10, --
Tanning leather.	William Höllingsworth, Elkton, Maryland	July 30, --
Fruss, double spring angular.	Theodore Hart, New York	Aug 30, --
Tanning.	Alexander H. Avery, Bennington, Vermont	Sept 30, --
Trip hammer.	Joseph Beal, Ontario, New York	Oct 5, --
Tanning.	Joseph Barker, Deerfield, New York	Jan 10, 1812
Thrashing machine.	Benjamin S. Hort, Georgetown, S. C.	Feb 21, --
Thrashing machine.	Wm. Richards, Culpeper county, Va	March 2, --
Thrashing machine.	Joseph Goulding, Bangor, Massachusetts	March 19, --
Tanning.	Samuel Currie, Philadelphia	March 28, --
Tobacco spinning, &c.	J. Vanderpoole and J. Eagles, Newark, New Jersey	April 8, --
Tanning.	C. Luther and James Smith, assigned to Daniel Renner, Georgetown, D. C.	May 5, --
Trip hammer.	Stephen Morrill, Redfield, Massachusetts	Sept 28, --
Tanning.	William Edwards, Northampton, Massachusetts	Oct 19, --
Thrashing machine.	T. Judson and J. Hotchkiss, Woodbury, Connecticut	Nov 27, --
Thrashing machine.	Samuel Skiff, Sharon, Connecticut	Dec 5, --
Thrashing machine.	John Houpt, jun. Bucks county, Penn.	Dec 14, --
Tanning soal leather.	W. Edwards, Northampton, Mass.	Dec 30, --
Tassels and cords for boots.	Alford James, Hartford, Conn.	March 1, 1813
Timber, machine for cutting.	David Cram, Clarksburg, Va.	April 15, --
Tanning in cold weather, &c.	Caleb Atwater, Genoa, N. Y.	June 2, --
Throstle for spinning wool, &c.	S. Shallcross, New York	Jan 26, 1814
Teazling cloth, substitute for.	Isaac Sandford, Providence, R. I.	March 26, --
Torpedo.	Ebenezer Ford, Baltimore	April 14, --
Tin plates.	David Noble, Philadelphia	May 9, --
Types, moulds for casting.	A. Binney, Philadelphia	May 17, --
Table for the use of ships.	G. Patrick, Wilkesbarre, Penn.	Nov 8, --
Tin plates.	Aaron Burk, New York	Feb 11, 1815
Tables.	Sullivan Snow, Saco, District of Maine	March 2, --
Timber, preserving under water.	George Lovett, New York	April 1, --
Thrashing machine.	Thomas Warner, Genesee, New York	May 11, --
Tenons, machine for cutting.	J. Reynolds, Dutchess county, N.Y.	June 24, --

Trip hammer. Urber Palmer, Spencer, New York	July 31, 1815
Tops, fall. John Eberts, Philadelphia	Sept 8, --
Toothach, machine for steaming. D. Merritt and S. D. Rogers, New York	Dec 27, --
Trees, preventing the canker worm in. Jonas Kendall, Leominster, Massachusetts	Jan 4, 1816
Tenters or temples for weavers. D. A. Smith, Townsend, Mass.	Feb 23, --
Types, casting moveable. G. Webster, New York	Feb 28, --
Tanning. William Edwards, Northampton, Massachusetts	April 2, --
Thrashing machine. E. Hotchkiss, Brattleboro', Vermont	April 8, --
Tortoise shell, stamping on. J. H. Derby, Worcester, Mass.	April 30, --
Tube winnowing mill. Moses Elliot, Concord, New Hampshire	May 18, --
Tacks, machine for making. Jesse Reed, Hanover, Mass.	Aug 1, --
Thimbles, rims for. Stephen Chandler, New York	Sept 20, --
Tanning. Bradford A. Potter, Manlius, New York	Sept 26, --
Types, ornamenting, &c. with. F. Bailey, Philadelphia	Oct 9, --
Tinder box. Isra Ives, Farrington, Connecticut	Oct 35, --
Tow boats. John S. Sullivan, Boston	Dec 4, --
Type moulds. George B. Lothian, New York	Dec 18, --
Thrashing machine. Nathan Reed, Boston	Feb 22, 1817
Teazling cloth, machine for. J. Olney, Westmoreland, Oneida county, New York	March 29, --
Thrashing machine. T. Cohoon and W. Elliot, Washington	April 12, --
Teazling cloth. Josiah Beckwith, Syme, Connecticut	May 16, --
Trusses for ruptures. Amos G. Hall, Utica, New York	July 17, --
Trusses for ruptures. Abel Blanchard, Pembroke, N. H.	May 17, --
Thrashing machine. Silas Smith, Albany, New York	Aug 28, --
Tacks and brads, machine for. Samuel Rogers and T. Blanchard, Boston	Oct 3, --
Teeth, setting artificial. Wilkinson R. Eagleson, Baltimore	Oct 4, --
Toothache, remedy for the. Joseph Utley, Hartford, Conn.	Nov 5, --
Thrashing machine. Nathan Read, Belfast, District of Maine	Dec 23, --
Thrashing machine. Nathan Read, Belfast, District of Maine	Feb 18, 1818
Thrashing machine. T. Beatty and M. Shanks, Martinsburg, Va.	Feb 25, --
Tanning and currying leather. J. Prescott, Augusta, Maine	March 6, --
Tubes, machine for drawing metallic. C. Eastman, Hillsboro', New Hampshire	April 16, --
Temples, weavers'. John Waterman, Rhode Island	May 28, --
Tachygraphy, or the flying pen. L. A. M. Sprangh, N. Y.	June 29, --
Thrashing machine, improvement in the. Chester Bullard, Norfolk, Massachusetts	Dec 16, --
Tanning, improvement in. James Batchelder, Grafton, N. H.	Dec 22, --
Thrashing machine. Thomas Mayfield, Baltimore	Dec 23, --
Twine, machine for tarring and spooling. Israel Decker, Bos.	April 31, 1819
Thrashing machine. Daniel Young, Piermont, New Hampshire	April 17, --
Tin ware, machine for making. S. Peck, Hartford, Conn.	April 23, --
Tobacco press, improvement in the. E. Brown, Richmond, Va.	April 30, --
Tanning, hemlock, &c. used in. John Lansing, jun. Albany, N. Y.	April 30, --
Trusses for ruptures. Benjamin Strahan, Philadelphia	June 23, --
Turning gun stocks, &c. machine for. T. Blanchard, Millbury, Massachusetts	Sept 6, --
Thrashing machine. William H. Ransone, Mathews county, Virginia	Sept 8, --
Tire for wagons, &c. mode of hollowing. Thomas Rowand, Gloucester county, New Jersey	Dec 24, --
Towing boats on canals; machine for. Peter Cooper, N. Y.	Jan 24, 1820
Tobacco press, improvement in the. S. Fraser, Nottingham, Maryland	March 23, --
Towing boats and vessels. Samuel Howard, Savannah, Geo.	May 24, --
Thrashing machine. Ezra Goodel, Phelps, Ontario county, N. Y.	June 6, --
Thrashing machine. A. Woolworth. Waterbury, Connecticut	June 15, --

Teeth, composition for cleaning.	Levi S. Parmly, New York	June 17, 1820
Thrashing mashine.	Asa Shaft, Pepperhill, Massachusetts	June 23, --
Tobacco reel, improvement in the.	S. and E. Hardy, Kennebeck, Maine	Dec 30, --
Tiring carriage wheels.	Russel Hunt, 2d, Litchfield, Conn.	March 20, 1821
Thrashing machine.	James Gregg, Londonderry, N. H.	March 30, --
Tilt hammer, improvement in the.	Jacob Eversol, Botetourt county, Virginia	May 3, --
Threads, mode of packing.	Reuben Langdon, Hartford, Conn.	June 20, --
Trucks, mode of cutting.	Robert Rose, Washington, D. C.	Aug 6, --
Teazling and knapping cloth.	Aaron Foster, Whitestown, N. Y.	Aug 24, --
Thrashing machine, improvement in.	Benj. Cummins, Brooklyn	Sept 1, --
Thrashing and rice cleaning machine.	Michael Morrison, Waterbury, New Hampshire	Sept 15, --
Thrashing and winnowing machine, improvement in the.	Seth Ballou, Livermore, Maine	Dec 12, --
Trunnels for ships, improvement in.	Thomas Rowell, Vt.	Dec 13, --
Transferring impressions.	A. C. Baker and M'Fund Biddle, Albany, New York	Feb 7, --
Telegraph, domestic.	Daniel Picerson, Boston	March 2, --
Truss, improvement on Hull's.	Bela Tarr, Norwich, N. Y.	March 9, --
Teeth, improvement in artificial.	Charles M. Graham, N. Y.	March 9, --
Thrashing and winnowing machine.	Alvin Savage, Wheatland, New York	March 28, --
Thrashing machine.	B. Tyler, J. Tyler and J. B. Andrews, Windsor, Vermont	April 23, --
Thrashing machine.	Reynolds Gillman, New York	April 29, --
Tayloring, improvement in.	Isaiah J. Hendryx, Bennington, Vermont	May 29, --
Thrashing, &c. machine for.	Major M'Donald, Topsham, Me.	July 10, --
Thrashing, &c. machine for.	Thacher Blake, Paris Maine	July 12, --
Turpentine, distilling.	Frederick S. Cozzens, New York	July 27, --
Thrashing machine.	Joseph Pope, Hallowell, Maine	July 30, --
Truss shears, for cutting iron.	Enos Baldwin, New York	July 31, --
Thrashing machine, improvement in the.	Timothy Howe, Turner, Maine	Dec 3, --
Tools, art of making edge.	Horatio S. Gates, Troy, N. Y.	Dec 19, --
Thrashing machine.	Gideon Reynolds, New York	Jan 21, 1823
Tanning, improvement in.	Leonard Jacobs, Missouri	Feb 10, --
Thrashing, improvement in.	John Carll, New York	Feb 12, --
Truss, improvement on the.	Amos G. Hull, New York	Feb 27, --
Thrashing grain, &c. machine for.	Naman Goodsell, Clinton, Oneida county, New York	March 21, --
Tannin, mode of extracting.	William Knapp, Milford, N. Y.	April 5, --
Thrashing machine.	P. Reading, Trenton, New Jersey	April 15, --
Tubs, pails, keelers, &c. mode of making.	Amos Mider, Camillus, New York	April 25, --
Thrashing machine.	J. R. Miller, Dryden, New York	April 30, --
Tinned sheet lead, manufacture of.	Thomas Ewbank, N. Y.	May 30, --
Telegraph, improvement in the.	James M. Elford, Charleston, South Carolina	June 18, --
Tilt hammer, improvement in the spring.	William Bowlin, Harrisburg, Virginia	July 1, --
Talley, mode of keeping.	William A. Turner, Plymouth, N. C.	July 12, --
Thrashing machine, improvement in.	Wm. Kirk, Baltimore	July 22, --
Temples for cloth-loom.	John Bazin, jun. Canton, Mass.	Aug 8, --
Thrashing machine, improvement in the.	Charles Smith, N. Y.	Sept 6, --
Thrashing grain, &c.	Archibald Douglass, New York	Sept 18, --
Tannin, mode of procuring by the pyroligneous acid.	D. Roe, C. F. Kellogg and J. W. Gazlay, Cincinnati, Ohio	Oct 3, --
Tannin, improvement in.	Joshua Galbraith, Trenton, N. J.	Oct 15, --



Thrashing and grinding machine, improvement in the. Wm. S. Lewis, Pittsylvania, Virginia	Oct 20, 1823
Tannin by the pyroligneous acid. Horace H. Hayden, Balt.	Nov 26, --
Thrashing machine, improvement in the. Benjamin Lovejoy, Augusta, New York	Dec 31, --
Thrashing machine, improvement in the. Andrew Noble, Alfred, Maine	Jan 12, 1824
Throstle cotton spinner, improvement in the. Benjamin Brundred, Mamaroneck, New York	Jan 17, --
Truss, improvement in the revolving spiral spring. Joseph Farr, Manlius, New York	Feb 7, --
Teeth, preventive of caries or decay in. Horace H. Hayden, Baltimore	Feb 11, --
Thrashing and winnowing machine. Edward Warren, Augusta, Maine	March 6, --
Tide-gauge. James D. Woodside, Washington, D. C.	April 14, --
Trigonometer, improvement in the. William Bolles, Griswold, Connecticut	July 17, --
Thrashing machine, &c. Gideon Reynolds, New York	July 20, --
Trusses for ruptures. Amos G. Hull, New York	Aug 19, --
Tanning, improvement in. Joseph Wampler and G. Matthews, Steubenville, Ohio	Aug 27, --
Trunks, making leather. Robert C. Martin, Philadelphia	Aug 28, --
Trusses for hanging the yards of ships. Preserved Fish, N. Y.	Sept 24, --
Thrashing machine, &c. Ger. Boswick and H. Spencer, Maryland, New York	Dec 24, --
Transporting weights, &c. James Cornell, Brookfield, N. Y.	Dec 24, --
Thrashing machine. James Hyde, South Pembroke, N. Y.	Feb 8, 1825
Tannin, extracting. William Lowber, Philadelphia	March 15, --
Tanning, improvement in. H. Bretney, Lebanon, Ohio	March 24, --
Truss, conical spring. Jesse R. Hovey, Sangerfield, N. Y.	March 31, --
Teeth, sawing ivory comb. Philo Pratt, New York	April 20, --
Tanning, improvement on Demond's mode. Joseph Giles, Guilford, Vermont	April 11, --
Thrashing and flax breaking machine. A. and N. Remington, Genoa, New York	May 19, --
Thrashing and shelling machine. Pierson Reading, Trenton, N.J.	May 20, --
Thrashing machine. Richard Holden, Philadelphia	May 20, --
Truss, B. Farr's improvement on Hull's patent. Eli M. Gibbs, Norwich, New York	May 28, --
Thread of wood, machine for making. William Bell, Fayette county, Kentucky	June 1, --
Thrashing machine, improvement on S. Ballou's. J. C. Boyd, Rush township, and A. Kitchen, Danville, Pennsylvania	June 7, --
Thrashing machine. Wm. Hoyt, Brookville, Franklin county, Indiana	Sept 9, --
Thrashing grain. William Small, Augusta, Maine	Sept 9, --
Tire and hoop bending. Joseph Meredith, Lebanon, Penn.	Sept 9, --
Teeth, apparatus for keeping free from saliva. Charles Newton, New York	Sept 27, --
Tire, machine for bending. Charles Cooper and Abraham Tustin, Lebanon, Pennsylvania	Sept 28, --
Thrashing machine. Joseph Briggs, Schoharie, New York	Oct 5, --
Thrashing machine. R. Howard and J. B. Flagg, Kennebeck, Me.	Nov 5, --
Truss. Christian Stockman, Albany, New York	Nov 7, --
Tanning. Samuel Williams and Amos Williams, Orange county, New Jersey	Nov 12, --
Trusses, for ruptures. John Blagg, Portland, Maine	Dec 13, --
Thrashing machine. William Small, Augusta, Maine	Jan 10, 1826
Thrashing machine. J. A. Heermance, Redhook, New York	Jan 16, --
Temples, used for weaving. O. M. Stillman, Brookfield, N. Y.	Jan 30, --



Thrashing grain and hulling clover, machine for.	Jos. Potter, Reading, Berks county, Pennsylvania	Feb 18, 1826
Thrashing grain and breaking flax and hemp, machine.	D. Hurlburt, N. Etheredge and J. M'Combs, Herkimer county, New York	Feb 21, --
Tanning, improvement on.	Leonard Jacobs, Richmond, Va.	March 1, --
Truss, spiral double cone.	Bela Farr, Norwich, Chenango, N.Y.	March 21, --
Tailoring, improvement in the art of.	Greenbury Ross, Carlisle, Kentucky	April 5, --
Toothed cultivator and harrow.	Waldren Beach, Philadelphia	April 13, --
Tan vats, pump used in.	Aaron Higgins, Florence, Ohio	April 24, --
Thrashing machine.	John Shaw, Kennebec county, Maine	May 10, --
Thrashing machine.	Seth Ballou, Livermore, Maine	May 25, --
Thrashing machine.	Peirson Reading, Trenton New Jersey	June 3, --
Tire for wagons, &c. machine for bending.	Walter James, Ashford, Windham county, Connecticut	June 19, --
Trip hammer, method of moving.	Elisha Crowell, Gardiner, Maine	Aug 4, --
Thrashing machine.	Arch. Douglass, Marcellus, New York	Sept 8, --
Thrashing and winnowing grain, machine for.	Sylvanus C. Hersey, Rochester, New York	Nov 8, --
Trip hammer, improvement in the.	Philip Pitts Read, Mercer, Maine	Dec 7, --
Thrashing machine.	James Hyde, Pembroke, New York	Dec 9, --
Tobacco, kiln for drying.	Edmund Pendleton, Louisa county, Virginia	Dec 18, --
Teeth, mode of engrafting.	Elijah A. Bigelow, Brandon, Vt.	March 8, 1827
Temple for weavers, spring.	A. Jenks and J. Clewell, Holmsburg, near Philadelphia	March 19, --
Tobacco, improvement in the manufacture of.	J. Allen, jun. and Charles Geoghegan, Richmond, Virginia	April 3, --
Tubs, buckets, &c. machine for cutting out.	Jer. Baily, Phil.	April 7, --
Tenoning spokes for wheels, machine for.	David Sperry, Colchester, Connecticut	April 18, --
Turning lathe, improvement in the.	Wm. Patrick, Leverett, Massachusetts	April 24, --
Thrashing machine.	M. Pennock, Kennet Square, Chester county, Pennsylvania	May 26, --

## U

Umbrella, improvement in the.	William Gamble, Washington, District of Columbia	July 3, 1824
Umbrella and parasol, improvement in the.	William Sleeper, Philadelphia	Nov 22, 1826

## V

Vessels, improvement in maritime affairs.	B. Wynkoop, Phil.	Sept 13, 1794
Ventilators, nautical.	Benjamin Wynkoop, Philadelphia	June 29, 1795
Vessels, propelling.	See <i>Boats</i> .	
Vessels, improvement in constructing and rigging.	J. Garretson	May 29, 1797
Vessels' bottoms.	See <i>Wood preserving</i> .	
Vessels, a machine for propelling.	Charles Stouinger	June 2, 1798
Vessels, heaving down, raising weights, &c.	See <i>Machine for</i> .	
Veneering plough, for cabinet work.	William Stillman	March 16, 1801
Vapour bath, portable.	C. W. Peale, Philadelphia	July 16, --
Ventilator for ships, &c.	See <i>Air pumps</i> .	
Vapour.	See <i>Cooler and condenser</i> .	
Vegetable elixir or cough drops.	S. Cooley, Bolton, Conn.	Nov 19, 1803
Vessels.	See <i>Raising</i> .	

Vermifuge, mode of preparing.	Joseph Lehman, Philadelphia	Aug 11, 1807
Vitriolic test, for making bank bills.	A. Brewster, Hartford, Connecticut	July 11, 1808
Vegetable pulmonic, detergent.	G. Rogers, Northampton, Mass.	Dec 31, --
Varnish for leather.	John David, Philadelphia	May 5, 1809
Vapourin.	See <i>Steam engine</i> .	
Vibrating nail plates, whilst cutting.	J. Bernard, Troy, N. Y.	April 16, 1811
Verdigris, manufacturing.	Stephen Dempsey, New York	Feb 4, 1813
Varnish of gum elastic.	Jacob H. Hummel, Philadelphia	April 29, --
Vencer's machine for shaving.	Silvannus Bonnel, New Jersey	Feb 28, 1814
Valetudinarian cot chair.	John Mead, Albany, New York	March 18, --
Vessel, ball proof.	Thomas Gregg, Connellsville, Penn.	March 19, --
Vaccinator, Spring.	William Haslett, Baltimore	April 17, 1817
Vetrinary ventilated bath.	James Carver, Philadelphia	Aug 8, --
Verdigris, making.	George F. Hagner, Philadelphia	Oct 13, --
Violin, bass, &c. improvement in the.	Nicholas A. Lete, N.Y.	June 11, 1818
Velocipede, improvement in the.	W. K. Clarkson, jun. N. Y.	June 26, 1819
Violins, &c. construction of.	John Edwards, New York	Feb 17, 1820
Venereal disease, preventing the.	John Prentis, New London	March 27, 1822
Vaccination, improvement in.	James Smith, Baltimore	July 10, --
Ventilating vessels.	Charles W. Skinner, Norfolk, Virginia	Aug 23, --
Vessels, mode of setting up shrouds of.	Robert Rogers, Dover, New Hampshire	Feb 6, 1823
Vessels, mode of planking.	William Scarburgh, Darien, Geor.	May 19, 1824
Vencers, saws for cutting.	R. B. Richardson, Philadelphia	Oct 6, --
Vice, perpetual lever.	Calvin Wing, Gardiner, Maine	March 2, 1826
Varnish for leather, hewn stone, &c.	Marcus Curtis, Troy, N.Y.	April 22, --
Varnish for furniture, leather, hewn stone, &c.	Marcus Curtis, Troy, New York	April 22, --

## W

Wire, weaving of.	T. Kirk and R. Leslie, Yorktown and Phil.	May 9, 1792
Wind mill, improvement in.	Joseph Pope, Boston	Jan 26, 1793
Wheat, &c. machine for cleaning.	B. Tyler, New Hampshire	April 15, 1796
Wheat, &c. machine for thrashing.	William Booker	March 11, 1797
Wheel, tide water.	Silas Betts	March 18, --
Wood and vegetables, &c. a combination of estrigent.	F. Hitch	April 17, --
Window sashes, improvement in making.	Stephen Parsons	Nov 20, --
Wheel, spiral, for working in the tide water.	Elias Ring	Dec 10, --
Washing.	See <i>Cloths</i> .	
Watches.	See <i>Clocks</i> .	
Wind mills, improvement on.	Charles Holden	March 15, 1798
Water, a screw engine for throwing.	Elijah Ormsbee	March 21, --
Water, causing it to ascend from founts.	John Manning	April 10, --
Water, machine for raising.	Marc Isambard Brunel	April 27, --
Water wheel flume for the improvement of large rapid streams.	Walter Brewster	June 7, --
Water, pipe and pump for conveying.	Mark Reeve	Dec 14, --
Wood, a method to preserve the bottoms of.	R. Peale	Dec 14, --
Wharves, vessels, and other wood from worms.	R. Peale	Dec 14, --
Wind mill, a method of regulating.	Thomas Thomson	Jan 3, 1799
Water, a machine for raising.	Joseph Hemptley	Jan 10, --
Writing with two pens, a machine for.	M. I. Brunel	Jan 17, --
Wheel, improvement in the horizontal.	Ezekiel Reed	Feb 14, --
Water, obtaining force from by the help of steam.	S. Morey	April 24, --
Water engine, improvement on his.	Samuel Morey	April 24, --
Weight, raising.	See <i>Machine for</i> .	
Water, engine for throwing.	Patrick Lyon	Feb 12, 1800
Water force by steam.	See <i>Force obtained by water</i> .	
Water, machine for raising.	W. Palmer, New York	Aug 25, --

Windows, how hung without weights. W. Young, Windham, Con.	Nov 20, 1800
Wheels within cylinders, mode of giving motion, &c. J. Sharples	Sept 15, 1801
Wind mills, mechanical powers for the use of which. J. Sharples	Sept 15, --
Wind mill, improvement in. John A. Morton	Dec 16, --
Wind mill, improvement in. R. Hathaway, Plymouth, Mass.	Jan 20, 1802
Wheat, machine for cleaning. Stephen Stilwell	July 9, --
Window sashes, improvement in raising and supporting. Leonard Kennedy	Sept 7, --
Water, machine for raising. John Baptiste Avelhe	Oct 14, --
Welding cast steel to iron, improvement in the manner of. Daniel Pettibone, E. Chapman and J. Nichols	Dec 22, --
Water, machine for raising. Benj. Cooley, Wheatley, Mass.	Feb 1, 1803
Wheel to turn under water. Silas Bent	March 7, --
Wind mill. See <i>Horizontal</i> .	
Wreck raft. A. De Buc Marentille	March 18, --
Water, improvement in heating and boiling. B. Platt	April 27, --
Wool, machine for breaking and carding. B. Standing	June 28, --
Window sashes, mode of applying springs. S. J. Camp, Norwalk, Connecticut	July 1, --
Wooden stills. See <i>Distillation</i> .	
Water cock, improvement in. George Youle, New York	Aug 25, --
Wheel press. Hezekiah Betts, Norwalk, Connecticut	Sept 13, --
Wind mill. See <i>Horizontal</i> .	
Wind mills, improvement in. A. E. Paine, Harpersfield, N. Y.	Nov 19, --
Window sashes, improvement in fastening and supporting. Jacob Osborn	Nov 24, --
Wind mill, improvement in. William Bell, Camden, S. C.	Nov 25, --
Window springs. James Curtis, jun.	Dec 10, --
Wheels, improvement in for various purposes, John Staples, jun. Warren, Virginia	Feb 17, 1804
Window sashes, improvement in hanging. W. W. Hopkins	Feb 24, --
Washing machine, improvement in. Daniel S. Dean	Feb 29, --
Window fastenings or springs. D. Miller, E. Haddam, Conn.	March 8, --
Watering cattle, machine for. Moses Smith	March 16, --
Wry fly, improvement applied to mills. Benjamin Tyler, Claremont, New Hampshire	March 19, --
Window sashes. See <i>Springs</i> .	
Water, improvement in the raising of. Benjamin Folger	July 7, --
Water, machine for raising from mills. W. Harrington, Paris, Kentucky	Aug 28, --
Windlass for ships or vessels, improved. H. Betts, Norwalk, Connecticut	Aug 29, --
Wind mill, improvement in. Richard Weems, Annapolis	Sept 20, --
Wagons or carriage to be worked by hand. John Bolton, jun.	Sept 29, --
Wind mill, improvement in. W. Staunton, jun. Plymouth, N. H.	Dec 26, --
Window spring, improvement in. Isaac Scott, New Haven	Dec 26, --
Water, machine for raising. F. Lippart, P. O. Keetztown, Pa.	May 3, 1805
Washing and scouring machine. A. Higham, Hudson, N. Y.	May 4, --
Water, machine for raising. Seraphim Bellij, Baltimore	Nov 7, --
Washing machine. William J. Fulsom and J. Hayden, Kennebeck, District of Maine	Dec 17, --
Water. See <i>Spring pump for raising</i> .	
Welding cast steel to iron, mode of. D. Pettibone, Roxbury, Connecticut	March 22, 1806
Washing machine. See <i>Fulling mill</i> .	
Water wheels for mills. E. Hubbel, Middleburg, Vermont	May 1, --
Wind mill. John Cooper, Philadelphia	May 22, --
Washing machine. Reuben Buck	May 29, --
Water proof, method of rendering cloth. James P. Weightman, Boston	Oct 21, --
Winding cotton, machine for. D. Brown, jun. Warren, R. I.	Feb 5, 1807

Washing machine.	Richard R. Elliot, Watertown, Mass.	Feb 28,	1807
Washing machine.	Simon Willard, jun. Hudson, New York	April 25,	--
Washing, scouring, and churning machine.	Thomas Beatty	April 25,	--
Washing machine.	Josiah Cleveland, Franklin county, Penn.	June 6,	--
Washing machine.	Eben Jones, Berkshire county, Mass.	July 24,	--
Washing machine.	M. Lee and T Barber, Oneida county, N.Y.	Oct 1,	--
Water wheel, improvement in the.	Simon Willard, jun. Hudson, New York	Dec 1,	--
Washing machine.	William Wadsworth, Hartford, Conn.	March 15,	1808
Wheel to run under water.	John Johnson, Indiana Ter.	March 21,	--
Whalebone, mode of twisting for whips.	Joseph Reeve, Newburg, New York	April 25,	--
Washing machine.	Leonard Kennedy Hartford, Conn.	April 26,	--
Washing machine.	Elam King, Johnstown, New York	May 14,	--
Whip saw, application of.	S. Barber and N. U. Tomkins, N.Y.	June 1,	--
Washing machine.	Martin Lee, New York	June 4,	--
Washing machine, churning, getting out clover seed, &c.	Robt. Patton, Columbia, Pennsylvania	June 13,	--
Washing machine, perpendicular.	E. Jones, Alfred, Mass.	June 20,	--
Washing machine.	Asahel E. Paine, Delhi, New York	July 1,	--
Washing machine.	Enos Trescott, New Marlboro', Mass.	July 11,	--
Washing machine.	Sheron Henry, Bloomfield, New York	July 11,	--
Washing machine.	Thomas Osgood, Charleston, New York	July 11,	--
Washing machine.	Eben. Lister, Killingworth, Connecticut	July 11,	--
Washing machine.	Dudley Loomis and Ira	July 11,	--
Wind mill.	Uzziel Geer, Norwich, Connecticut	July 18,	--
Wheels, machine for making.	Jacob Coon, Granville, N. Y.	Aug 6,	--
Water, machine for elevating.	Wm. Smith, Gloucester, N. J.	Aug 12,	--
Washing machine.	S. W. Dana, Rutland, Vermont	Aug 30,	--
Wheel carriages.	Stephen Winchester, Newton, Connecticut	Aug 30,	--
Washing and churning machine.	Ditto ditto	Aug 30,	--
Washing and churning machine.	G. Bishop, Cazenovia, N. Y.	Sept 7,	--
Winnowing machine.	Randal Wallis, Baltimore	Nov 9,	--
Window sashes, machine for making.	J. Farnham, Oswego, N Y.	Jan 7,	1809
Washing machine.	Septimus Tucker, Dublin, Pennsylvania	Jan 12,	--
Window shutters.	See <i>Fastening</i> .		
Washing machine.	Eli F. Hill, Onandago, New York	Feb 11,	--
Wheel, overshot strap or chain.	Richard Berrian, New York	Feb 13,	--
Washing machine.	A. Blodget, Amherst, Massachusetts	Feb 16,	--
Washing machine.	Joseph Yarwood, New Brunswick	March 11,	--
Washing machine.	Levi Anderson, Bristol, Pennsylvania	March 23,	--
Washing machine.	William Buckman, Anu Arundel, Md.	March 23,	--
Washing machine.	Garry Bishop, Madison county, N. Y.	April 17,	--
Washing machine.	Lemuel Bachelor, Vernon, New York	April 24,	--
Window sashes.	David Worthington, Hartford, Connecticut	April 27,	--
Water wheel.	William Stubs, Chillicothe	May 1,	--
Weaving straw with silk, &c.	Mary Keis, Killingly, Conn.	May 5,	--
Washing machine.	Orin Chatfield, Burlington, New York	May 15,	--
Washing machine.	Nicholas Van Zandt, Washington	May 21,	--
Washing and churning machine.	G. Osgood, Madison county, New York	June 7,	--
Washing machine.	Martin Lee, Burlington, New York	June 8,	--
Washing machine.	Isaiah Jennings, New York	June 13,	--
Wool carding machine.	Daniel Smith, Philadelphia	June 14,	--
Water tables, for doors, &c.	Nathaniel Briggs, Windham, Vt.	June 17,	--
Water back and towel for smiths.	O. Ames, Plymouth, Mass.	June 24,	--
Washing machine.	Thomas Pierce, Fishkill, New York	June 24,	--
Worm boiler.	James Truman, Philadelphia	June 24,	--
Washing machine and press.	Amos Hosford and Ezekiel Kelsey, Berlin, Connecticut	June 27,	--
Washing machine.	Timothy Freeman, Madison county, N. Y.	June 28,	--



Wheat rubber. James Deneale, Dumfries, Virginia	-	July 1, 1809
Wire work, machine for weaving. P. Bernard, Whitestone, N.Y.	-	July 7, --
Wood screws. See <i>Screws</i> .		
Washing machine. Shubael Kimball, Rhinebeck, New York	-	Aug 12, --
Wheel to operate by wind or water. W. L. Bakewell, New Haven, Connecticut	- - - - -	Aug 18, --
Wheel, mode of casting for clocks. Lemuel J. Kilburn, Penn.	-	Oct 13, --
Washing machine. Rozel Philips, Otsego, New York	-	Oct 14, --
Washing machine. Robert Robinson, Leesburg, Virginia	-	Nov 3, --
Water wheel, horizontal. David Parmalee, Reading, Conn.	-	Nov 20, --
Wells, mode of sinking. Peleg Easton, Nantucket, Mass.	-	Feb 1, 1810
Washing machine. Sylvester Noble, Hosick, New York	-	Feb 1, --
Weaving machine. Walter Janes, Ashford, Connecticut	-	Feb 16, --
Windows. See <i>Spring bolt</i> .		
Whip saw. See <i>Saw</i> .		
Water wheels for mills. J. Minor, Saratoga, New York	-	April 2, --
Wheel wright's labor saving machine. M. Battle, New York	-	April 4, --
Washing and churning machine. J. Roberts, Germantown, Pa.	-	April 25, --
Wind mills. Russel H Wright, Boston	- - - - -	April 25, --
Wire winding and spinning. Henry Burke, Philadelphia	-	June 18, --
Washing machine. Isaac Loof borrow, New York	-	June 26, --
Winding machine for weavers. Levi Ruggles, Boston	-	Aug 16, --
Winding machine for weavers. Walter Janes, Ashford, Conn.	-	Aug 20, --
Writing, teaching the art of S. Warren, Randall, R. I.	-	Oct 1, --
Washing machine William Jackson, Painsville, Ohio	-	Oct 8, --
Water wheel. Pindar Antrim and Samuel Bolton, Philadelphia	-	Nov 1, --
Windlass and capst n. John Calvin, Philadelphia	-	Nov 6, --
Water, machine for raising, &c. Jos. Clap, Montague, Mass.	-	Nov 21, --
Water wheel. Aaron Reuck, Chillicothe, Ohio	- - - - -	Dec 5, --
Washing machine. Daniel Robinson, Franklin, New York	-	Dec 15, --
Window springs. George Cannon, Nantucket, Massachusetts	-	Dec 27, --
Water boiler and steam still. P Bernard, Whitestown, N. Y.	-	Jan 16, --
Wood, preserving in salt water. Robert Lloyd Nicholas, Easton, Talbot county, Maryland	- - - - -	Feb 23, --
Wheat. See <i>Starch, &amp;c</i> ,		
Wheel, tide mill. D. Wheeler, Bristol, Massachusetts	-	March 2, --
Warming rooms. B. Russel, Hartford, Connecticut	-	March 4, --
Wind wheel, horizontal bellows. D. Van Vorhees, Long Island, New York	- - - - -	March 21, --
Water wheel, spiral. B. Schoolfield and W Stantou, Lynchburg, Virginia	- - - - -	April 26, --
Water wheel, raising or lowering. M. Andrews, Kennebeck, Massachusetts	- - - - -	May 4, --
Weighing machine. Thomas Arnat, Philadelphia	- - - - -	May 10, --
Writing instrument. Ezra L. Miller, Charleston, S. C.	-	May 11, --
Window sashes. John Ballthorp	- - - - -	May 22, --
Washing machine. D. Duncan, Upperville, Loudoun county, Va.	-	May 23, --
Water wheel, horizontal. John Osburn, jun. Litchfield, Conn.	-	May 29, --
Water blast. Joseph Ruggles, New Milton, Connecticut	-	June 6, --
Water wheels, machine for two. Luke C. Hinman, Luther Bis- sel and Moses Barns, Otsego, New York	- - - - -	June 7, --
Wheel head, accelerating. A. Putnam, Philadelphia	-	July 20, --
Wooden springs for carriages. L. Somner, Downingtown, Pa.	-	July 22, --
Wear for catching fish. Hawley Emerson, Hancock	-	Aug 14, --
Wool picker. Michael Morrison, Boston	- - - - -	Aug 15, --
Weaving. N. and P. Miller, Franklin, Massachusetts	-	Aug 20, --
Weaving. Joseph Atkinson, Amherst, Massachusetts	-	Sept 5, --
Wool, machine for drawing and spinning. William Humphreys, Humphreysville, Connecticut	- - - - -	Oct 4, --
White lead, washing. Samuel Witherille, jun. Philadelphia	-	Oct 29, --
White lead setting the beds, &c. Ditto ditto	- - - - -	Oct 29, --



White lead, screening in water. Samuel Witherille, jun. Phil.	Nov 1, 1811
White lead separating the oxidated from the metallic. Samuel Witherille, jun. Philadelphia	Nov 1, --
Water wheel. Elisha Mack, Sheffield, Massachusetts	Nov 2, --
Water gate, balance. William Maher, Rome, New York	Nov 12, --
Welding scrap iron, &c. B. King, Washington City	Nov 15, --
Wire. See <i>Rolling</i> .	
Writing, mode of teaching. S. Randall, Warren, R. I.	Jan 11, 1812
Weaving, the art of. J. Rood, Canterbury, Connecticut	Jan 23, --
Whirl and regulator for flax. C. Crafts, Woodbury, Conn.	Feb 10, --
Washing machine. W. Stanton, Lynchburg, Campbell county, Virginia	May 12, --
Warming rooms. Daniel Pettibone, Philadelphia	May 12, --
Water, hydraulic for raising. W. Schultz, Philadelphia	May 26, --
Washing and churning machine. Z. Phiney, Cairo, N. Y.	June 19, --
Water gate, shutting the. Amos Bolton, Fauquier, county, Va.	June 19, --
Washing machine. Joseph Palmer, Brookfield, New York	Aug 21, --
Wharves, constructing. John Butler, Baltimore	Sept 9, --
Wire, machine for making. Wm. Wadsworth, Hartford, Conn.	Oct 6, --
Wool carding machine. G. Both, Poughkeepsie, New York	Oct 13, --
Wire, machine for drawing. Jacob T. and Thos. Walden, N. Y.	Oct 31, --
Wine, converting cider into. Henry Seabolt, Scipio, N. Y.	Nov 11, --
Water mills. Samuel Browder, New York	Nov 27, --
Wheel heads. William H. Peabody, Woodbury, Connecticut	Dec 14, --
Washing machine. Erastus Denison, New Lisbon, New York	Dec 30, --
Water, raising from wells. George Patterson, Philadelphia	Feb 6, 1813
Wool spinner. See <i>Perpetual</i> .	
Wool for worsted, preparing. Joseph Bamford, Philadelphia	March 18, --
Wheel head. Eli Church, Horner, New York	March 18, --
Winnowing machine. John James, 3d, Plymouth, Mass.	May 4, --
Washing machine. John F. Whipple, Easton, New York	June 10, --
Wheels, machine for making. Melzor Hunt and Cotton White, Hartford, Mass.	June 15, --
Washing machine. Josiah Hotchkiss, Woodbury, Conn.	June 18, --
Washing machine. Silas Hitchcock, Vernon, New York	June 25, --
Water mill. Jacob Perkins, Newburyport, Mass	June 26, --
Weavers' lathe. John Drummond, New York	July 24, --
Weavers' beams. Goliah Williams, North Providence, R. I.	Aug 24, --
Wine from cider. Ezra B. Corkings, Bristol, New York	Oct 9, --
Window sashes, bolt for. Nathaniel Briggs, New York	Oct 13, --
White lead making. Alexander James Hamilton, New York	Nov 8, --
Wooden springs. Luke H. Thrall, Troy, New York	Nov 10, --
Weights, applied to machinery. Peter Obert, New York	Nov 18, --
Weaving millinett, &c. Stephen Steward, Cheshire, N. H.	Nov 31, --
Wheel head. David Loring, Canandaigua, New York	Nov 31, --
Water mills. John Owings, Baltimore	Jan 25, 1814
Washing machine. John Gray, Eaton, New York	Feb 4, --
Water, machine for raising. Jacob Hartman, Lampeter, Penn.	March 31, --
Wheel for spinning, &c. Emery Russel, Long Meadow, Mass.	April 18, --
Wheel heads. Emery Russel, Long Meadow, Mass.	April 18, --
White lead. Elisha D. Butts, Baltimore	May 5, --
Water wheel, improvement on Farnham's. David Cooper, Jericho, New York	May 12, --
Washing machine. Eliphalet Jaques, Newburyport, Mass.	May 24, --
Wood sawing. Benjamin Hoadley, Waterbury, Con.	June 14, --
Weeding machine. Charles Hill, Essex county, Virginia	July 7, --
White lead, manufacturing. J. Welsh and T. Evans, Phila.	Aug 15, --
Winding spool, &c. Augustus C. Sherewood	Oct 18, --
Wadding cotton. James Beaumont, Canton, Mass.	Dec 3, --
Wheel head, linen. B. Smith and Chas. Stewart, Truxton, N. Y.	Dec 8, --
Water wheel, horizontal. W. Cornwall, Oranock, Virginia	Dec 15, --

Wooden springs for carriages.	Levin Brickhead	Dec 30, 1814
Weaving, spooling, and winding.	Eben Stowell, Middlebury, Ver.	Feb 28, 1815
Warping machine.	Thomas Siddel, Germantown, Penn.	March 27, --
Water wheel.	George Peck, Whitestown, New York	April 26, --
Washing machine.	Joshua Lane, Homer, New York	May 15, --
Water used on wheels successively.	A. Danielson, Otsego N. Y.	May 16, --
Whiskey making.	Silas Smith, Genesee, New York	May 23, --
Water wheel, horizontal.	James Wood, Mount Pleasant, N. Y.	June 19, --
Wind and water wheel.	Jonathan Reynolds Dutchess co. N. Y.	June 24, --
Water wheel, applying.	Asa Jellson, Roxbury, Mass.	July 17, --
Wheel, vertical horse.	John A. Morton, Baltimore	July 21, --
Wool, machine for spinning and roping.	Samuel Learned, Waretown, Massachusetts	Aug 3, --
Wheels, carriage.	B. L. Greenough, Lebanon, N. H.	Aug 12, --
Water wheel, horizontal.	R. A. Donaldson and J. L. Wheeler, Newark, New Jersey	Sept 25, --
Weights, iron.	Alven Babcock, Boston	Nov. 6, --
Washing machine.	Christ. Seebold, New Berlin, Penn.	Feb 1, 1816
Water wheel, overshot.	John Green, Virginia	March 5, --
Winding yarn.	Paul Moody, Boston	March 9, --
Wheel head.	David Lee, Guilford, Conn.	May 6, --
Water wheel.	Silas Dalie, Cumberland, Mass.	May 28, --
Weaving.	Ira Draper, Weston, Mass.	June 7, --
Weights, propelling boats by.	Moses Martin, Woodbridge, New-Jersey	July 8, --
Willard's time-piece, improvement in.	L. Curtis, Concord, Massachusetts	July 12, --
Windmill, improvement in.	James Barron, Elizabeth City, Va.	July 18, --
Winder, socket and bobbin.	John Thorp and S. Shepard, Taunton, Mass.	Oct 14, --
Water marks in paper.	J. Perkins and T. Gilpin, Philadelphia	Dec 18, --
Water wheel.	Wm. Purnell, Giles co. Tennessee	Jan 10, 1817
Weights, machine for raising.	Henry Nold, Bucks co. Penn.	Jan 22, --
Water, rendering pure.	S. Griffith, Stephenson, Rensselaer county, N. Y.	Feb 1, --
Water power, applied to machinery.	Meredith Malloroy, Benton, Ontario, New York	March 3, --
Water wheel, tide and current.	Samuel Morey, Oxford, N. H.	March 13, --
Water wheel, tide and current.	Benjamin Thomas, Washington, District of Columbia	March 20, --
Window blinds.	George Munger, Cambridge, Maryland	March 26, --
Water wheel.	Theodore Burr, Burr Haven, Dauphin county, Pennsylvania	April 3, --
Water wheel.	Ira Griswold, Granby, Connecticut	April 16, --
Water wheel, perpetual.	James Widdifield, Philadelphia	April 21, --
Window and door frames.	Randolph Ross, Baltimore	April 30, --
Water, mode of letting on a wheel.	J. Smith, Queen's county, New York	July 1, --
Water wheel.	Amos Thayer, Albany, New York	July 7, --
Weaving, preparing yarn for.	H. P. Franklin and W. B. Winsor, Providence, Rhode Island	Aug 8, --
Wells, sinking.	Eben. Hilyard, Philadelphia	Sept 10, --
Water, raising and forcing.	L. T. B. and S. E. Morse, Charlestown, Massachusetts	Oct 3, --
White lead, making of.	George F. Hagner, Philadelphia	Oct 13, --
Wheel, horizontal inclined.	M Isaacs and John Wilbanks, Phil.	Oct 14, --
Water wheels.	Charles Augustine Busby, New York	Oct 25, --
Water burner, American.	Samuel Morey, Oxford, N. H.	Dec 11, --
Wood, seasoning.	James Ronaldson, Philadelphia	Feb 2, 1818
Winnowing machine.	Ed. and John Brooks, Wilmington, Del.	Feb 2, --

Water proof stiffening for hats. A. and G. V. Raymond, Balt.	Feb 7,	1818
Water wheel, spiral screw. Alex. D. M'Kamy, West Tennessee	Feb 10,	--
Wheel trailing. John Read Lime, Connecticut	March 6,	--
White lead. Edward Clarke, Philadelphia	March 28,	--
Weaving. Stephen Armstrong, Poughkeepsie, New York	April 7,	--
Weaving machine. David Grieve, Providence, Rhode Island	April 11,	--
Water wheel. John Evans, Davies county, Indiana	April 21,	--
Waste steam. John H. Morton, Thomas Bodley and Robert Huston, Lexington, Kentucky	April 28,	--
Wooden springs for carriages. James Greenwood, New Castle, Delaware	April 28,	--
Water, new mode of applying as a power. A. Thayer, Albany, New York	May 1,	--
Water wheel. Amos Thayer, Albany, New York	May 1,	--
Water wheel. John Edwards, Urbana, Ohio	May 25,	--
Water tew iron. Gideon Davis, Sandy Spring, Montgomery county, Maryland	May 26,	--
White lead. Joseph Richards, Philadelphia	May 28,	--
Wind wheel. Moses Isaacs, Camden, N. J. near Philadelphia	May 28,	--
Wheel for propelling boats. John Sayward Trott, Boston	June 2,	--
Writing. See <i>Tachygraphy</i> .		
Weights, machine for raising. S. Gray, Madrid, New York	July 15,	--
Water wheel, called the boat wheel. H. Brown, Lebanon, Ohio	July 24,	--
Wooden springs. James Clark, Kent county, Delaware	July 31,	--
Washing machine. James Barnet, Providence, Rhode Island	Sept 15,	--
Winnowing machine, improvement in the. Thomas Beatty, Washington	Oct 5,	--
Window springs, improvement in. Gideon Drake, Hartford, Conn.	Oct 26,	--
Water wheel, improvement in the. Arthur Henrie, Miami, Ohio	Oct 28,	--
Water tew iron. W. Barker, Luzerne county, Pennsylvania	Nov 10,	--
Winnowing machine, improvement in the. J. Bromwell, Balt.	Nov 26,	--
Water burner, improvement on Morey's. J. L. Sullivan, Bost.	Dec 11,	--
Wheel, improvement on the double stem. J. L. Sullivan, Bost.	Dec 10,	--
Water burner, improvement on his. J. L. Sullivan, Boston	Dec 19,	--
Water wheel, improvement on. Asa Waters, Millbury, Mass.	Dec 22,	--
Wooden jack screw. Z. Bunker, Guilford county, N. C.	Feb 3,	1819
Wheat, machine for cleaning garlic, &c. from. Thomas Wilson, Baltimore county, Maryland	Feb 8,	--
Wheel, chain water. Henry Beidleman, Washington county, Va.	Feb 8,	--
Winnowing machine. Horatio Watkins, Washington county, Maryland	March 18,	--
Wheel, shovel and scraper. Nathan Whiting, Chester, Vt.	March 19,	--
Water wheel, improvement in the. T. Eames, Newbury, Vt.	April 29,	--
Washing machine. Beardley Hendryne, Springfield, N. Y.	May 6,	--
Window springs. Hezekiah Salisbury, jun. Brattleboro', Vt.	May 24,	--
Water, mode of raising. John Ambler, New Berlin, Chenango	May 26,	--
Wheel, horizontal. George Deming, Burlington, Vt.	July 22,	--
Winnowing machine for wheat, &c. E. Tisdale, Herkimer county, New York	July 31,	--
Wheel barrow. Jeremiah Bainard, Rome, New York	Aug 26,	--
Weaving, improvement in. J. H. Pierson and James S. Simons, Rockland county, New York	Dec 31,	--
Wheat, machine for washing and drying. Samuel Martin and Z. Chapin, Ontario county, New York	Jan 18,	1820
Water wings, for propelling boats, &c. J. J. Dyster, Balt.	Feb 9,	--
Watch chains, machine for making. Samuel Keplinger, Balt.	May 4,	--
Water and coal, machine for drawing. Edmund C. Dauley, Fredonia, Indiana	May 12,	--
White wash brush. Elijah S. Curtis, Charleston, Mass.	June 2,	--
Watch chains, machine for making. John Hatch, Baltimore	June 5,	--
Water wheel. Elisha Hall, Baltimore	July 5,	--

Wheel, spiral helm.	Robert P. Cunningham, Pomfret, Conn.	Aug 3, 1820
Washing machine.	Benjamin Cox, Hadley, Massachusetts	Aug 15, --
Wire screens for cleaning rice.	N. and D. Sellers, Philadel.	Aug 16, --
Weighing machines.	Eli Wadsworth, Hartford, Connecticut	Sept 7, --
Wheel, tide.	N. Gates and Alexander Maxwell, New York	Sept 13, --
Water wheel.	James Price, New York	Oct 2, --
Water wheel.	David Beauchamp, Elizabethtown, Virginia	Oct 10, --
Wind mills, improvement in.	P. Etienne, New York	Oct 14, --
Winnowing machine.	Josiah Brown, New London, Conn.	Nov 29, --
Weaving, improvement in the harness for.	M. Chandler and E. Brown, Cazenovia, New York	Jan 26, 1821
Water wheel, horizontal pedal.	John James Giraud, Balt.	Feb 5, --
Wind and water wheel, improvement in the.	William Gallup, Norwalk, Ohio	March 29, --
Warping and weaving cotton goods.	James Morgan, Balt.	April 6, --
Winnowing machine.	Daniel Donchoe, New York	April 16, --
Wheel, head linen spinning.	J. S. Stuart, Springfield, N. Y.	April 19, --
Water wheel, oblique.	Ralph Bulkley, New York	Aug 7, --
Whale's blubber, machine for mincing.	Benj. Taber, Fairhaven, Massachusetts	Aug 11, --
Water, machine for raising, by weight.	J. Altoffer and Wm. Bushnell, Harrisburg, Virginia	Aug 30, --
Water wheel right and left.	Ralph Bulkley, New York	Oct 8, --
Washing machine, improvement in the.	James Barron, Virginia	Dec 7, --
Water, machine for raising.	N. N. Dettrehan, Charles Parish, La.	Dec 13, --
Waterwheel, improvement in the horizontal.	H. Howard, Wooster, Ohio	Dec 26, --
Washing machine, improvement in the.	Pascal Cady, Brooklyn, Connecticut	Jan 17, 1822
Wire, improvement in drawing card.	Russel Prouty, Spencer, Massachusetts	Jan 19, --
Window shutters and blinds, fastening.	Bernice West and Philander Soper, Rome, New York	Jan 31, --
Wheel, polygonal, chain, paddle, &c.	Tim. Elmer and Azel Pierson, Bridgetown, New Jersey	Jan 31, --
Waistcoats, pantaloons, &c. making.	Charles Herwick, N. Y.	Feb 8, --
Window curtains, improvement in.	Henry Andrew, N. Y.	March 6, --
Winnowing machine.	Harry Beadle, Wallingford, Conn.	March 30, --
Washing machine and for grinding.	James Justin, Pittsburg, Pa.	April 19, --
Water wheel, improvement in the tide.	Robert Seal, Delhi, N. Y.	May 31, --
Washing machine, improvement in the.	Francis Goucher, Phil.	June 15, --
Wind mills, improvement in.	William Phoebus, New York	June 24, --
Wheels for carriages.	John Whitaker, Dingman's Ferry, Penn.	June 24, --
Wool picker, improvement in the.	Beria Brown, Exeter, R. I.	Sept 2, --
Window sashes, self-balancing.	Francis Follot, Petersburg, Va.	Oct 15, --
Washing machine, improvement in the.	David Watson, Fayette, Maine	Oct 15, --
Water, elevators for raising.	Social Rolph, Albany, N. Y.	Nov 16, --
Water wheel, improvement in the inclined horse and water.	Lee Wheeler and Timothy Powell, Coxackie, New York	Dec 6, --
Wind mills, improvement in the machinery of.	John Gue, Waterford, New York	Dec 31, --
Water wheel, improvement in the vertical.	John Maze, Greenbrier county, Va.	Jan 10, 1823
Wind mill, improvement in the.	Jesse Mollineux, North Hampstead, New York	Jan 24, --
Water wheel, improvement in the.	Adolphus Allen, Troy, Penn.	Feb 8, --
Water, improvement in raising.	Littlebury H. Mosby, Powhatan county, Virginia	Feb 15, --
Wheat, machine for cleaning smut from.	Daniel Pease, jun. Windfield, New York	Feb 27, --



Wheel, to prevent ropes, &c. from slipping. James Cooper, Augusta county, Virginia	June 17, 1823
Window sash, machinery for making. Amos Miner, Elridge, N.Y.	July 9, --
Washing machine, improvement in the. Isaac Leavitt, Turner, Me.	Aug 12, --
Washing machine, improvement in the. A. Glendening, Butler county, Pennsylvania	Sept 25, --
Warming beds, mode of. Peter Lannay, Baltimore	Nov 11, --
Wheel made to supersede the crank. James Stedwell, 3d, Carmel, Putnam county, New York	Nov 25, --
Water wheel, made of iron. P. J. Schuyler, E. Hitchcock and D. Hitchcock, Stillwater, New York	Dec 20, --
Ware, improvement in making all kinds of. Robt. U. Richards, Winchester, Connecticut	Feb 19, 1824
Water wheel, revolving paddles for. Syl. Guernsey, Fenner, N.Y.	April 12, --
Wheel, elbow. Ralph Bulkley, New York	April 24, --
Wheel head, improvement in the accelerating. Diana H. Tuttle, Williamson, New York	May 17, --
Washing and scouring machine. W. Cahoon, Windfield, N. Y.	June 15, --
Washing machine, revolving. Eben. Dewey, Butternuts, N. Y.	June 24, --
Weaving, cam motion in. C. Whiting, J. Goulding, W. Janes, Dedham, Massachusetts	June 25, --
Watering cattle. Adolphus Allen, Troy, Pennsylvania	July 10, --
Washing machine. Andrew Glendening, Loudoun county, Va.	Sept 9, --
Wheel barrows for brick. Nat. Tufts, 2d, Charlestown, Mass.	Sept 13, --
Window shutters, fastenings for. Nathaniel Briggs, N. Y.	Oct 21, --
Weights, machine for raising. Almorán Holmes, Boston, Mass.	Oct 21, --
Water wheel, mode of letting on water. Samuel Sperry, Nashville, Tennessee	Nov 9, --
Washing machine. John West, Middletown, Connecticut	Dec 14, --
Water, or tide wheels, improvement in. T. B. V. Gaasbeck and D. Sands, Poughkeepsie, New York	Dec 24, --
Wire, harness for weaving. Elisha Allis, Cazenovia, N. Y.	Dec 30, --
Washing machine, lever. R. Wheeler, Vergennes, Vermont	Feb 26, 1825
Wheel, for carriages. William Cooper, Columbia, S. C.	March 3, --
Water, mode of raising. Darius Comstock, Lockport, N. Y.	March 15, --
Water wheel, horizontal. Eben. Thompson, Manchester, N.Y.	March 24, --
Water wheel, horizontal. O. Latham, L. Bennet and J. Green, Oneida county, New York	May 28, --
Wool and cotton, machine for roping and spinning. Francis Burdick, Kortright, New York	May 30, --
Water, mode of raising. Scott Fickett, New York	June 11, --
Wooden ware, machine for making. L. Z. Parke, Windham, N.Y.	June 14, --
Window and bed curtains, mode of manufacturing. Samuel Abbot and Joseph Prentis, Chester, Massachusetts	Aug 23, --
Window shades, &c. machine for making. Rufus Conant, Lynn, New Hampshire	Sept 9, --
Warming rooms, mode of. William Baker, Springfield, N. Y.	Sept 9, --
Water wheel, horizontal. Abraham Lippitt, Windsor, Ohio	Nov 2, --
Water from wells, drawing. Elijah Willard, Egremot, Mass.	Nov 2, --
Washing machine. Moses J. Clark, Auburn, New York	Nov 8, --
Water and sawing timber, machine for raising. John Winter, Brutus township, New York	Nov 15, --
Weavers' harness, making metal eyes for. J. Conger and L. Woodbury, Locke, New York	Nov 15, --
Washing machine. Shelburn Bostwick, Thompson, Ohio	Dec 8, --
Washing machine. Oliver Deane, Walpole, Massachusetts	Jan 11, 1826
Washing machine. Willard Foster, Oswego, New York	Jan 25, --
Water from wells, drawing. Jeremiah Dexter, Salisbury, Conn.	Jan 27, --
Washing by steam. Junius Smith, London, England	Jan 28, --
Ways for drawing up vessels. Amasa Miller, New London, Conn.	Feb 8, --
Weaving wire, power loom for. John S. Gustin, New York	Feb 23, --



Washing machine. Edward Thurston, Burlington, Vermont	March 8, 1826
Window shutters and doors, fire proof. J. Brown and George W. Robinson, Providence, Rhode Island	March 16, --
Wheels, machinery to supersede. J. Cooper, Staunton, Va.	March 22, --
Washing machine. Richard V. Mudge, Deerham, New York	April 12, --
Weaving wire harness. Ezra Brown, Cazenovia, New York	April 12, --
Washing machine, rocking. J. G. Philip, Kinderhook, N. Y.	April 12, --
Water wheel, conical. Roswell Wilcox, Franklin county, N. Y.	April 19, --
Water wheels, relieving from back water. Jare Benedict, Fabius, New York	May 10, --
Water wheels and flumes, constructing. Asa Messer, Providence, Rhode Island	May 18, --
Wind mills, in the construction of. W. Coburn, Gardiner, Me.	June 1, --
Well bucket, mode of emptying the. Elijah Willard, Egremont, Massachusetts	June 15, --
Water wheels, mode of applying water to. D. M. Kenzie, M. L. Baker, S. Dear, J. M'Naughton, Caledonia, New York	June 19, --
Washing machine, improvement in the. S. Church and Hiram Clark, Utica, New York	July 6, --
Water wheels, mode of letting the water on. Thomas Keys, Henry county, Georgia	July 18, --
Wind mills, improvement in. Moses Padly, Ontario, N. Y.	Aug 31, --
Wheels, improvement in for boats. John J. Giraud, Balt.	Sept 15, --
Water from wells, mode of drawing. Elijah Willard, Egremont, Massachusetts	Oct 23, --
Water wheel for propelling boats. Benjamin Raymond, jun. Beverly, Massachusetts	Nov 18, --
Washing machine, improvement in the. Burroughs Beach, N. Milford, Connecticut	Nov 24, --
Washing machine. David G. Dunham, New Brunswick, N. J.	Dec 7, --
Wheel for propelling boats, paddle. Wm. F. Kearsing, N. Y.	Dec 8, --
Wool and other fibrous substances, manufacturing. J. Goulding, Dedham, Massachusetts	Dec 15, --
Water and other fluids, heating and boiling. George J. Payne, Lockport, New York	Dec 27, --
Wheels for carriages, making the hubs of. Garretson Lyon, N.Y.	Dec 28, --
Water for cattle, machine for drawing. I. Willbur, Madison, N.Y.	Dec 28, --
Wind mill, improvement in the. T. P. Jones, New Castle Del.	Feb 6, 1827
Wheelwrights' assistant. John Sitton, Pendleton, S. C.	Feb 15, --
Washing machine, improvement in the. Chester Stone, Middlebury, Connecticut	Feb 17, --
Watch seals, improvement in making. S. Davis, H. and P. Babbit, and B. P. Grinnell, Providence, Rhode Island	March 3, --
Water wheel for saw mills. Thomas Shute, Tennessee	March 6, --
Wheelwrights' assistant. Cyrus W. Beach, Schoharie, N. Y.	March 16, --
Watch keys, improvement in making. Joseph S. Davis, Providence, Rhode Island	April 3, --
Wood, machine for the use of those who work in. Jeremiah Baily, Philadelphia	April 7, --
Water wheel for steam boats. R. L. Stevens, Hoboken, N. J.	April 10, --
Wool, &c. improvement in the manufacture of. John Goulding, Dedham, Massachusetts	April 27, --
Water wheel, mode of letting the water on. Robert and Thos. T. M'ulloch, Albemarle county, Virginia	May 26, --

## Y

Yellow paint, mode of preparing. B. A. Carrendefez, N. Y.	Sept 2, 1800
Yarn beam for looms. Simeon Pette, Foxboro', Mass.	June 15, 1813
Yarn, machine for sizing and dressing. Paul Moody, Watham, Massachusetts	Jan 17, 1818

SUPPLEMENT

TO THE

LIST OF PATENTS CONTINUED.

FROM JUNE, 1827, TO APRIL, 1828.

A.

ANTHRACITE coal, culinary vessels for	Jacob F. Walter, Phil'a	June 8, 1827.
Artificial stone, mode of making.	R. McKay, D. McKenzie, and Jos. Woodhull, New-York	Jan. 16, 1828.
Apple grater, improvement in the.	Uri. Emmens, New York	Feb. 13,
Archimedean screw, in the.	Perry Harris, Preble c'y, Ohio,	March 25,
Axle, in the common carriage.	D. W. Phillips and W. Maker, Covington, New-York	April 23,
Atmosphere propelling engine.	Edward Allen Talbot, Dublin, Ireland	June 21,

B.

Bricks, machine for pressing.	James McDonald, New-York	April 24, 1827.
Boilers, impt in the steam engine.	John Poole, Sheffield, England	May 14,
Boilers, Do.	Ebenezer A. Lester, Boston,	May 14,
Bedstead, impt. in the portable.	Jacob Daley, Baltimore	May 14,
Bridges, impt. in building wooden:	Garner Wilkinson, White Creek, New-York	May 15,
Bridges, in making the ribs or arches of.	John P. Bakewell, Pittsburg, Pennsylvania	May 15,
Brick, machine for pressing.	John Howe, Alma, Maine	May 18,
Blower, impt. in the coal grate.	R. Fuller and Thomas Thomas, New-York	May 22,
Boilers for steam engines, impt. in.	Isaac Doolittle, Bennington, Vermont	June 1,
Bellows, impt. in Jesse Dixon,	Pittsboro' Chatham county, N. C.	June 11,
Boring earth, machine for.	John R. Frailing, Canajoharie, New York	June 13,
Boats; impt in the means of transporting from one canal to another.	Robert P. Bell, of New-York	July 13,
Buildings, impt. in the mode of moving.	Simeon Brown, of N. Y.	July 31,
Bed sackings, impt. in the mode of tightening.	John K. Simpson, Boston, Massachusetts	Aug. 10,
Boats, impt. in the combination of.	Thomas Thorpe, City of Washington	Aug. 31,
Brick and tile, machine for moulding.	E. Fisk and B. Hinkley, Fayette, Maine	Sep. 8,
Balance, impt. on Dearborn's patent.	Samuel Blaisdel, Lancaster, Ohio	Oct. 10,
Bucket, impt in the vertical.	Stacy Costill, Philadelphia	Oct. 17,
Bobbin tube, for spinning, impt in the.	Benjamin Hutchinson, Philadelphia	Oct. 18,
Barrels, hogsheads, &c. machine for making.	William and Mar- cus Adams, Ogden, New-York	Jan'y 24 1828.
Brick, impt. in the machine for making.	David Rising, Colches- ter, New York	Jan'y 29,
Bending sheet iron, for boilers, &c.	Calvin Post, Spring Post, New-York	March 11,
Boring rocks, in the machine for.	Isaac Overall, Liberty, Smith County, Tennessee	March 14,
Brick, in the mode of moulding, &c.	David Flag, junior, Gardi- ner, Maine	March 19,
Bark, in the machine for grinding.	Aaron Bull, Caroline, N. Y.	March 27,
Bellows or blowing machine, in.	Elijah Brady, Mount Pleasant, New-York	April 3,

C.

Carriages, impt. in riding wheel.	Wm. and Josiah Jessop, Guil- ford county, North Carolina	June 1, 1827.
Cheeses, applying nets to pine apple.	L. M. Norton, Litchfield, Connecticut	June 4,

Churning butter and pumping, machine for. Nathan Whitney, Augusta, Maine	June 7, 1827
Cider, ma. for grinding apples for, or for mixing mortar. Thomas Streeter and James S. Wilbert, Chili, New-York	June 12,
Cork cutter, impt. in the. Luther Hills, Boston	June, 18
Crimping boots, impt. in the mode of. Saniel Morehouse, Eastport, Maine	June 19,
Cements for roofs or walls of buildings from impt. Charles Clinton, of New-York	July 13,
Canals, mode of conveying earth or other substances, the bottom of. Oliver Phelps, Lansing, Tompkins c'y, New-York	July 16,
Crane, impt in the portable. Ezekiel Mann and Geo. Hill, Rochester, Monroe county, New York	July 21,
Cordage, impt. in the mode of making. Robert Graves, Brooklyn, New York	July 25,
Canal boats, impt in the mode of passing. Robert Graves, Brooklyn, New-York	July 26,
Cutting wheat, &c. impt in the machine for Laban Durham and John S. Pleasants, of Halifax county, Virginia	July 28,
Coach alarm, impt in the. Walter Hunt, New York	July 30,
Chimney smoke and safety valve, impt. in the. Jos. H. Schreiner, Philadelphia	July 31,
Card teeth, improvement in the machine for cutting Joshua Lamb, Leicester, Massachusetts	Aug. 1,
Cotton Cleaner, impt. in the. Jesse Reed, Marshfield, Plymouth county, Massachusetts	Aug. 10,
Cones, improvement in gearing. Truman F. Mayhew, Boston, Massachusetts	Aug. 22,
Cement, improvement in making aqueducts by means of. John N. Benham, Bridgewater, Oneida county, New-York	Aug. 29,
Carding machine, impt. in the. John Tillow, Newton, Fairfield c'y, Connecticut	Sept. 8,
Churn, impt in the. Daniel Sheldon, Pulteney, New-York	Sept 13,
Cradle, hydrostatic steam. Charles Miner, Lyme, Connecticut	Oct 12,
Corks, machine for cutting. George Rawlings, Philadelphia	Oct 30,
Calico printing, making rollers for by etching. D. H. Mason and M. W. Baldwin, Philadelphia	Oct. 30,
Clocks, impt. in the construction of. Harrison G. Dyar, N Y.	Nov. 6,
Combs; in making ornamental hair. Uriah Bailey, West Newberry, Massachusetts	Nov. 15,
Cradle, impt. in the hydrostatic steam. Charles Miner, Lyme, Connecticut	Nov. 16,
Combs, impt. in the backs of tortoise shell. Nathaniel Bishop, Danbury, Connecticut	Nov. 11,
Chain, improvement in the frame. David Leslie, New-York	Nov. 19,
Carriages, improvement in four wheel. Theodore Brooks and Daniel W. Eames, Rutland, New-York	Dec. 6,
Churn, or fluid agitator. Samuel H. Baker, Wells Township, Pennsylvania	Jan. 10, 1828.
Cloth, vibrating machine for napping. Samuel Duncan, Northampton, New-York	Jan. 21,
Cotton, machine for packing. Wm. J. Coke, Cabin Point, Sussex, county, New-York	Feb. 4,
Canal steam boat. John F. Wight, Erie, Pennsylvania	Feb. 14,
Cooking apparatus, &c. Ezekiel E. Bennet, Kingsbury, N. York	Feb 15,
Cooking stove, in the. Daniel G. Garnsey, Pomfret, New-York	March 3,
Carriage bodies, in. Jesse Reeder, Lebanon, Ohio	March 4,
Cast iron shoes, mode of making. Icabod Arnold, Oswegatchie, New York	March 12,
Carriages, impt. in. Thomass Knox, Sniggersville, Virginia	March 15,
Corn shelling machine. John Brown, Providence, R. Island	March 18,
Coopers' work, machine for making. Hiram Waters, Water-town, New-York	April 3,

## D.

Dividing engine, for scales, guages, &c. Lemuel Hedge, Windsor, Vermont	June 20, 1827
Distilling, impt. in the art of. John M. Aikin, Philadelphia	Aug. 30,

Distilling, impt. in.	Wm. J. Cocke, Surrey county, Virginia	Oct. 30, 1827.
Do.	James Lusk, Butter county, Ohio	Dec. 22,
Do.	Wm J. Cocke, Cabin point, Sussex c'y, Virginia,	Feb. 4, 1828.
Distilling by steam.	Benjamin Barr, Strasburg Township, Penn.	April 5,

## E.

Engines, impt. in manufacturing steam and rotary wheel.	Francis Harris, Albany, New-York	July 10, 1827.
Engine, improvement in the steam.	Warren P Wing, Greenwich village, Hamsphire county, Massachusetts	Aug. 17,
Excavator, impt in the floating.	Harvey W. Campbell, Lockport, New-York	Jan. 22, 1828.
Excavator, or self loading cart.	Waldren Beach, Philadelphia	Feb. 5,

## F.

Foot stoves, impt. in cast iron.	Geo. W Robinson, New-York	June 2, 1827.
Fur, impt. in the machine for separating.	Jno. McDonald, N. Y.	Sep. 11,
Fur cutters, cant twist blades for.	Chs. C. K. Beach, Portland, Maine	Nov. 10,
Flax, ma. for breaking	Henry Schoonhaven, Pulteney, N. Y.	Dec. 11,
Fur, impt. in the ma. for cutting	Michael Petre, Womelsdorf, Berks county, Pennsylvania,	Dec. 20,
Flax and hemp dressing ma.	Jno. C. Wenzel, Louisville, Kent'y	Jan. 17, 1828.
Flax and hemp dressing ma. and for hulling grain and rice.	Evans Christian, Town of Philadelphia, New York	Feb. 8,
Flax, impt. in the ma. for swingling.	Samuel Achey, Heidleberg Township, Pennsylvania	Feb. 18,
Fire engine, impt. in the.	Ezekiel Daboll, Canaan, Connect't	April 12,

## G.

Gun locks, impt. in percussion.	Marvel C. Davis, of Mayville, Chatauge county, New York	July 10, 1827.
Gas lights, impt in the manufacture from cotton seed.	Denison Olmstead, N. H. Connecticut	July 21,
Glass knobs, mode of pressing.	John Robinson, Pittsburg, Penn.	Oct. 6,
Glass, mode of pressing with a core.	P. C. Dummer, Jersey City, New Jersey	Oct. 16,
Glass formed by a combination of moulds.	G. Dummer, P. C. Dummer. and Jas. Maxwell, Jersey City, New Jersey	Oct. 16,
Gates for locks, impt. in.	Daniel Rogers, Little Falls town, Herkimmer county, New-York	Jan. 4, 1828.
Gasses from anthracite coal, mode of generating.	M. Ward and Richard W. Hall, Baltimore	Jan. 19,
Grailing ma. impt. in the.	Philo Pratt, Meriden, Connecticut	Feb. 12,
Gold and silver, separating earth from.	Wm. H. Folger, Spon-tenburg Dist. South Carolina	Feb. 13,

## H.

Hewing and hammering stone, impt. in the machine for.	Charles B Read, of West Bridgewater, Plymouth county, Mass'ts	June 27, 1827.
Horse harness or horse yoke, impt in the	Adolphus Allen, of Troy, New York	June 29,
Horse hoe, impt in the cast iron.	Wm. Charmichael, Sand lake, Renssalaer county, New York	July 28,
Harrow and plough hoe, impt. in the.	Isham Cheatham, Providence Inn, Chesterfield county, Virginia	July 31,
Hydraulic elevator, impt. in the.	David Corey, York, Pennsylv'a	Aug 31,
Hoe, impt. in the prong.	Jos. Wilson, Marlborough, N. H.	Sept. 20,
Hydraulics, impt. in.	Jacob Roup, Kenawa county Virginia,	Oct. 6,
Hats, water proof stiffening for	Stephen Hemstead, junior, St. Charles county, Missouri [re-issued Oct 26. 1827]	May 25, 1827.
Heat; application of the spare to making salt, &c.	Alexander Brown, Salina New-York	Oct. 30,
Hubs, cast iron or other metal	Benja'n Lyman, Manchester, Conn.	Nov. 6,
Hydrostatic and hydraulic elevator.	Jas. McCreary, Nobiestown, Pennsylvania	Jan. 5, 1828.

Hubs for carriage wheels, impt. in.	Hercules Thomas, Midway, Massachusetts	Jan. 8, 1828.
Horse mills, in the lever for working.	John Galbraith, Maury county, Tennessee	March 6,
Hear, in the revolution and management of.	Elipt. Nott, Sche- nectady, New-York	March 26,
Hydraulic engine, in the revolving.	Ashel Hubbard, Windsor, Vermont	April 22,

## I.

Inclined and vertical tread wheel.	Cornelis Watson, Addison Township, Ohio	Dec. 22, 1827.
Ivory, machine for junking.	L. Pratt and F. Bush, Meriden, Conn.	Feb. 9, 1828.
Ivory plates for combs, ma. for slitting.	Philo Pratt, Meridin, Conn.	Feb. 12,

## K.

Kent bugle, impt. in the.	Richard Willis, West Point, N. York	Nov. 10, 1827.
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## L.

Loom, impt. in the power of delivering the yarn.	Wm. B. Leo- nard, Fishkill, New York	May 23, 1827.
Do.	taking up the cloth Do. Do.	May 23,
Loom impt. in the, for weaving figured goods.	Horace Baker, North Salem, West Chester county, New-York	Aug. 30,
Leather, impt. in the mode of tanning.	Osmond Cogswell, Cin- cinnati, Ohio	Sept 18,
Lever power gained.	E. G. Fitch, Blakely, Alabama	Oct 5,
Laths, machine for making plastering.	Thomas Wright and Abram P. Howell, Cincinnati, Ohio	Oct. 9,
Lock, lever percussion gun-	John Ambler, jr. S. New Berlin, New York	Oct. 16,
Lathe, impt in the turning.	Jefferson Moore, Leveritt, Mass.	Jan. 12, 1828.
Loteries, impt in the mode of drawing.	Wm. E. Spalding, Brooklyn, Connecticut	Feb. 15,
Loom, for satinets, in power.	R. Mitchell and N. Butterworth, Troy, Massachusetts	March, 22,
Leather, knives for cutting sole.	Luke Marble, Henerietta, N. Y.	March 28,
Lock for the wheels of carriages.	George Diven, Franklin county, Pennsylvania	April 14,

## M.

Mill for grinding grain, impt. in the.	Robert S. Thomas, Rockin- ham, North Carolina	June 4, 1827.
Mill, impt in the grist.	Sam'l Sawing and James Monteith, Statesville, North Carolina	June 11,
Mill, impt in the grist.	Wm. W. Forward, Harford c'y, M'd	June 15,
Mill, impt. in the sugar loaf.	Sidney and Portius Moore, Tir- zah, North Carolina	June 15,
Mill, impt. in the grist.	Wm. A. Turner, Plymouth, Washington county, North Carolina	June 27,
Morocco ma for dicing, polishing and rolling.	Sam'l Couillard jr. Boston, Massachusetts	June 27,
Mortissing ma impt. in the.	Simon Leroy, Mexico, Union Square, Otswego county, New York	July 10,
Mill, impt. in the grist.	Washington Adams, Guilford county, North Carolina	July 18,
Do.	Avery and John Coe, of Guilford county, N. C.	July 21,
Mill stone, impt. in the bush for a.	Nathan, Taylor, Urbana, Steu- ben c'y New York	July 23,
Mill, impt in the tide.	Robert Spedden, Talbot county, M'd	Aug. 1,
Manufacturing, impt. in the mode of.	Jno. Goulding, of Dedham, Massachusetts	Aug. 24,
Mill, impt. in the cast iron, for grinding bark.	William Torrey, Westbrook, Maine	Sep. 13.
Mill impt. in the tanning.	Enoch Walker, Springfield, 4 corners, Pennsylvania	Sep. 20,
Mortissing and tenoning ma.	John McClintic, Chambersburg, Pennsylvania	Oct. 8,
Moccasin, impt. in the water proof.	John Syms, New-York	Nov. 10,



- Marble, impt. in imitating all kinds of. Benjamin Trembly, N. Y. Nov. 13, 1827.  
 Mill, impt. in the grist. Jas. Robison, Buckskin Township, Ohio Dec. 11,  
 Mortising ma. impt in the chisel of. A. Greeuleaf and H.  
 Amidon, Mexico, New-York - - - - - Dec. 28,  
 Mortising ma. impt in the. J. J. Kellogg, Richmond, New-York Jan. 24, 1828.  
 Mill, impt. in the grist. Wm. L. Taylor, McMinn c'y, Tennessee Jan. 28,  
 Medicine, impt. in. Truman Powell, Burlington, Vermont Feb. 2,  
 Marble, impt. in the machine for cutting and polishing. Archi-  
 bald McAllister, Salem, New-York - - - - - Feb. 18,  
 Mill, impt. in the grist. Samuel Holland, Hanover, Ohio March 1,  
 Do. Admiral Warren, Saugerties, N. Y. March 12,  
 Medicine, impt in. Fitzgerald Bird, Hancock, Georgia - - April 19,

## O.

- Oven, for baking over a furnace. Eli Moody, Northfield, Mass. April 5, 1823.

## P.

- Press for cotton or hay, impt. in the. T. D. Wilson, of Corydon,  
 Indiana - - - - - June 6, 1827.  
 Plough, impt in the. Wm. Beach, of Philadelphia - - - - - June 27,  
 Printing press, impt. in the hand. Samuel Couillard jr. Boston,  
 Massachusetts - - - - - July, 14,  
 Piston, rotative, impt. in the. John M. Cooper, Guildhall, Essex  
 county, Vermont - - - - - July 16,  
 Plough, impt. in the. Geo. Doffer, Fredericktown, Maryland Aug. 20,  
 Plane stock, impt. in the. Hazard Knowles, Colchester, New-  
 London county, Connecticut - - - - - Aug. 24,  
 Percussion gun locks, impt. in. James B. Lowry, Mayville,  
 Chautague county, New-York - - - - - Sep. 11,  
 Printing press, impt. in the. Samuel Couillard, Boston, Mass. Oct. 5,  
 Planing machine, impt. in the. Josiah Riehm, Savage factory M'd Nov. 1,  
 Percussion gun lock, impt in the. Joseph Shuttuck, Jefferson c'y,  
 Ohio - - - - - Nov 10,  
 Punching copper, machine for. Wm. Ballard, Boston Dec. 6,  
 Peggin jack, impt. in the windlass. Samuel Nourse, of Danvers,  
 Massachusetts - - - - - Dec. 8,  
 Plough, impt. in the bar-shear. Eli Pugh, Chatham c'y, N. C. Dec. 24,  
 Plough, called the cotton planter. Bird Murphy, Union Dist. S. C. Dec 31,  
 Plough, impt in the. Wm. Wiard, Avon, New-York Jan. 26, 1828.  
 Presses for hay, &c. impt. in. Moses B. Bliss, Pitts:own, Maine Jan. 26,  
 Paint impt. in making oil. Alexander Thompson, Betheny, N Y Feb. 2,  
 Pills, impt. in the Rheumatic. Ezra Deane, Biddeford, Maine Feb. 2,  
 Pressing horn with steel plates. Uriah Bailey, of West Newbury,  
 Massachusetts - - - - - Feb. 2,  
 Printing press, impt in the. J. C. Holbrook and E. H. Thomas,  
 Brattleboro', Vermont - - - - - Feb. 7,  
 Do Do Do  
 Paper, in material for making. Wm. Magaw, Meadville, Craw-  
 ford county, Pennsylvania - - - - - March 8,  
 Ploughs, in the construction of. Richard Loveridge, Knox  
 county, Ohio - - - - - March 8,  
 Pump, basin, or reservoir. Geo. M. Selden, Troy, New-York March 10,  
 Ploughs, impt. in. Chs. Howard, Kingham, Massachusetts March 10,  
 Propelling boats, &c. impt in the mode of Timothy Davis, Law-  
 rence, Indiana - - - - - March 15, 1828.  
 Piano fortes, impt. in. C. F. L. Albrecht, Philadelphia March 18,  
 Pump logs, machine for boring. Sam'l Draper, Camilus, N. Y. March 31,  
 Paper making, from the Ulva Marina. Elisha H. Collier, Lon-  
 don, England - - - - - April 16,  
 Press frame, impt. in the standing. Robt. Hoe, New-York April 22,

## R.

- Rail-way carriages, impt. in the construction of. Richard P.  
 Morgan, Stockbridge, Massachusetts - - - - - July 27, 1827.  
 Rack, flexible, for operating on ships' carriages. J. Wood  
 and P. A. Sabbaton, New-York - - - - - Oct. 6,

- Rice, coffee, machine for cleaning and polishing. Elijah Wilder,  
Jersey City, New Jersey Nov. 19, 1827.  
Rake, impt in the common hay. Ambrose Foster, Auburn, N. Y. Dec. 6,  
Rail-way, transporting carriages on. Moncure Robinson, Henrico  
county, Virginia - - - - April 9, 1828.

## S.

- Saw mill, impt. in the. Anthony Bencine, Milton, Caswell  
county, North Carolina June 4, 1827.  
Spinning cotton and wool, ma. Wm. Church, Birmingham, Engl'd June 11,  
Still, impt in. Malcolm McGregor, New-York June 15,  
Steam, impt in the. John Maynard, Ovid, New-York - - June 15,  
Schalgiola, impt. in making. Salvadore Pinistri, New-York June 18,  
Suspensers, impt in the. Edwin Chesterman, New-York June 19,  
Sawing shingles, machine for. Nathan Swift, of Lebanon, Conn. June 27,  
Spinning wool, machine for. Benjamin Laphan, of Queensbury,  
Warren county, New-York June 29,  
Seive wheels, impt. in preventing friction on spindles. J. G.  
Shoulze, Pickaway Township, Ohio July 6,  
Screw auger, impt. in the. Judson Smith, Derby, New-Haven  
county, Connecticut July 13,  
Spindle, impt. in the. Benj'n Brundred, of Oldham, Bergen  
county, New-Jersey July 14,  
Spirits impt. in fermenting and distilling. Ira Belnap, Millers-  
burg, Dauphin county Pennsylvania July 20,  
Staves, impt. in the mode of making coopers'. Amory Akmoden,  
Bloomfield, Ontario county, New-York July 27,  
Spinning machine, impt. in the Wm. W. Jones, Thornville, Per-  
ry county, Ohio July 27,  
Straw cutting machine, impt. in the. Saban Durham and I. S.  
Pleasants, Halifax, Virginia July 27,  
Stone, impt in dressing, drilling, cutting, &c. Hermon Bourne,  
of Salem, Essex county, Massachusetts Aug. 3,  
Sack shoulderer, impt called the. Lewis Rice, of Clarksboro',  
Gloucester county, New-Jersey Aug. 3,  
Stumps, impt. in the machine for removing. Abijah Pratt, of  
Jackson, Washington county, New-York Aug. 17,  
Spirits, impt. in the method of determining the proof of. Wil-  
liam Cornell, Brooklyn, New-York Aug. 20,  
Sofa & bedsteads, impt in the Jno R. Penniman, Boston, Mass. Aug. 22,  
Scouring, impt in the mode of. Jno. Goulding, Dedham, Mass. Aug. 24,  
Shuttle, impt in the mode of throwing in weaving. Do. Aug. 25,  
Saw, impt. in the. (two edged saw) Moses Cass and Aaron  
Bull, Caroline. Tompkins county, New York Aug. 31,  
Syringe, pitch, impt in the. Daniel Flint, Nobleboro', Lincoln  
county, New-York Aug. 31,  
Shingles, impt on P. Hawe's machine. Geo. A. Hoard, of Ant-  
werp, New York Sep. 20,  
Shingles, impt. in the machine for cutting. George W. Dana,  
Louisville, New-York Sep. 20,  
Scurvy, vegetable composition for curing. James U. Armour,  
Fredericktown, Maryland Sep. 28,  
Saw mill, impt. in the. Anson B. Graham, Lee, Massachusetts Sep. 28,  
Saw teeth, apparatus for setting. John Boggs, Philadelphia Oct. 4,  
Sleigh shoe, &c. impt in the cast iron. Edward Trask, Sanger-  
field, New-York Oct. 6,  
Shingles, impt. in the machine for making. Oliver Wheeler,  
Rochester, New York Nov. 10,  
Saw mill, impt. in the reciprocal. Wm. Kendall, Jun Waterville,  
Maine, Oct. 23,  
Steam, application of the escape. David Emoree, New Richmond,  
Ohio, Dec. 3,  
Spring and stiffner, impt. in the rest. James G. Shute, Boston Dec. 5,  
Saw mill, impt in the Benjamin Overman, Greensboro', N. C. Dec. 11,  
Submarine propeller, impt. in the. Elijah Bryan, New-York Dec. 22,  
Spectacles impt. in the common. S. Newton, Washington, D. C. Dec. 22,  
Spinning cotton bagging from cotton. John E. Dewees, Mason  
county, Kentucky Dec'r 28,  
Sheaves for ships' blocks, cast iron. Francis Seymour, Plymouth,  
Massachusetts Dec'r 29,

- Saw mill, in the reciprocating. Wm. Kendall, Watterville, Maine Dec. 31, 1827.  
 Steam generator, impt. in the tubular. Reid R. Throckmorton,  
 New-York Jan'y 17, 1828.  
 Spring saddle, impt in the. Thomas Harvey, Middleton, Del'are Jan'y 24,  
 Screw, water wheel, impt. in the. Ebenezer Beard, Charles-  
 town, Massachusetts Jan'y 25,  
 Stove, impt in the cooking. Robert C. Rouse, Athens, N. York Jan'y 26,  
 Steam engine, impt. in the. Simeon Broadmeadow, of New-York Jan'y 29, 1828.  
 Steam engine, spring teeth rack frame for the. William Willis,  
 Charleston, South Carolina Feb'y 1,  
 Steam engine, impt in. John J. Giraud, Baltimore Feb'y 5,  
 Straw cutting machine. Warren Cummins, Livingston county,  
 New-York Feb'y 11,  
 Steam engine, impt. in the high pressure. Isaiah Jennings, N. Y. Feb. 11,  
 Specific steam engine, impt. in the. A. S. Kirk, Smithfield  
 Township, Ohio Feb'y 13,  
 Stone, machine for hammering and cutting. Joseph Richards,  
 Braintree, Norfolk county, Massachusetts Feb'y 20,  
 Steam boilers for stone coal. James G. Wilson, New-York Feb'y 22,  
 Spinning wool and flax, machine for. Theodore Thomas Abbot,  
 Greenland, New Hampshire Feb'y 26,  
 Scythes and shovels, &c. in making cast steel. E. H. Bulkeley,  
 Colchester, Connecticut Feb'y 28,  
 Sugar, impt. in the mode of clarifying. Wm. J. McIntosh, Geo. March 7,  
 Steam; in generating gas or. E. A. Lester, Boston March 10,  
 Steam, in the application of. Jos. Skinner, Mantua, Ohio March 14,  
 Sawing shingles, machine for. Cheney Read, Western, Mass. April 2,

## T.

- Tire, impt. in the machine for bending. Walter Janes, Ashford,  
 Windham county, Connecticut July 14, 1827.  
 Thrashing and winnowing, and flax breaking machine. Edmund  
 Warren, New-York Aug't 11,  
 Thrashing, impt. in the machine for. Peter Barker, Worthing-  
 ton, Franklin county, Ohio Aug't 20,  
 Thrashing machine, impt. in the. E. B. Pike, Litchfield, Maine Oct'r 5,  
 Trip hammer propelled by the foot. E. Pierce and Jos. Hathaway,  
 Pulteney, New-York Oct'r 19,  
 Types, impt. in the mode of casting. S. Sturdevant & Edwin  
 Star, Boston Oct'r 23,  
 Turning rake and hoe handles, machine for. William Shepard-  
 son and Jos. C. Sperry, Hamilton, New-York Dec'r 3,  
 Turning rake handles, machine for. Anson Sperry, Rotten-  
 dam, New-York Dec'r 26,  
 Turning, impt in the mode. Jonathan Sparrow, Portl'd, Maine Dec'r 26,  
 Thrashing grain and grass seed, machine for. David W.  
 Webster, of Amesburg, Massachusetts Feb'y 9, 1828.  
 Thrashing ma. impt. in the. Elias B. Hort, Charleston, South-  
 Carolina Feb'y 18,  
 Thrashing rice and small grain, machine for. Edmund Warren,  
 New-York Feb'y 22,  
 Thrashing machine, in the. Michael First, of Union Town, Md. March 3,  
 Tobacco, in the mode of curing. Martin and Thomas Baker,  
 Louisa county, Virginia March 4,  
 Tongs, in cast iron. Enos H. Buel, Marlborough, Conn. March 6,  
 Thrashing machine; in the. William Loomis, Springfield,  
 New-York March 6,  
 Tar Jack, called the. Hezekiah Salisbury, Springfield, Mass. March 8,  
 Trip hammer in the. Levi Rosenkrans, Big Flat, New-York March 17,  
 Teeth, in terro metallic. Anthony Plantou, Philadelphia April 5,

## V.

- Vituller, impt. in the Economical. Benjamin C. Burdett, City  
 of New-York Aug't 4, 1827.  
 Vessels, impt. in the mode of heaving down. John Crownin-  
 shield, Salem, Massachusetts Oct'r 19,

## W.

Water wheel, inclined revolving. Thomas D. Wilson, Corydon, Indiana	June 7, 1827:
Water wheels, mode of letting the water on. Jacob Ammon, Rockingham county, Virginia	June 8,
Washing machine, impt. in the. David Beard, of Buffaloe, N. Y.	June 27,
Wool, impt. in the mode of manufacturing. John Goulding, Dedham, Norfolk c'y, Massachusetts	July 10,
Wool and cotton, impt. in the machine for roping and spinning by hand Henry Wilson, Pomfret, Chatangue c'y New-York	July 13,
Water wheel, impt. in the up and down. Henry Miller, Allen- ton, Northampton, Pennsylvania	July 28,
Wooden ware, impt. in the manufactory of hollow. Elisha Briggs, Perry, Genessee county, New-York	July, 30,
Water, impt. in the method of cooling. Wm. Thornton, City of Washington, District of Columbia	July 31,
Water wheel impt. in the. James Deniston, Sanier Township, Preble county, Ohio	Aug't 22,
Wool, impt. in the extracting of grease from. John Goulding, Dedham, Massachusetts	Aug't 24
Washing machine, impt. in the. Moses Cass, Caroline, Tomp- kins county, New-York	Aug't 29,
Water wheel, impt. in the screw-spiral E. Skinner, Sandwich, New Hampshire	Sep't 11,
Wheel, impt. in the propelling water paddle. John J. Giraud, Baltimore	Sep't 18,
Washing machine. Franklin Kellsey, of Middletown, Conn.	Sep't 25,
Weight, propelling machinery by. Cain Broyles, Tellico, Tenn.	Oct'r 19,
Water wheel, mode of letting water on. Michael Hildebrand, McMinn county, Tennessee	Nov'r 10,
Water, mode of retaining and discharging. Bradford Seymour, Westmoreland, New-York	Nov'r 10,
Water proof, making leather. David Kizer, New-York	Nov'r 19,
Washing cloths and shelling corn, machine for. Benjamin Rice, Denmark, New York	Nov'r 23,
Warming and heating rooms, impt in. A. McAllister and J. Iggett, Salem, New-York	Dec'r 15,
Water proof leather and cloth, making. J. L. Comstock, Hart- ford, Connecticut	Jan'y 21, 1828.
Water wheel, impt. in the. Joseph Torny, Ravenna, Portage county, Ohio	Feb'y 20,
Windows' shutters, impt. in the fastenings for. Truman Bartho- lomew, New York	Feb'y 19,
Wicks for candles, cotton yarn for. George Dickinson, N. Y.	Feb'y 21,
Water wheel, impt. in the spiral. James Kelly, Jackson c'y, Ohio	Feb'y 21,
Water, in the mode of purifying and filtering. Christopher Hall, Norfolk, Virginia	Feb'y 22,
Window sashes, cast iron. Isaac McNary, Stafford, Conn.	Feb'y 23,
Water, impt. in the pressure of. George M. Gibbs, Pr William Parish, Beaufort District, South Carolina	March 10,
Wash stand, in the construction of. John Williams, Baltimore	March 15,
Washing, churning, working butter, ma. for R. R. Palmer, Caroline Township, Tompkins county, New-York	March 21,
Washing machine; in the. Aaron Bull, Caroline, New-York	March 28,
Water; in the mode of raising. Jos. S. Fox, Cattaragus c'y, N. Y.	April 5,

## Y.

Yards of vessels, mode of slinging the. Isaac Carver, junior, Prospect, Maine	Dec'r 11, 1827.
Yards of vessels, in the mode of suspending the. Samuel Adams, Wells, Boston	Jan'y 23, 1828.

# SUPPLEMENT

TO THE

## LIST OF PATENTS CONTINUED.

FROM APRIL, 1828, TO JANUARY, 1830.

### A.

APPLES, impt. in the machine for grinding. David D. Demarest,	1829.
N. Milford, New-York,	Jan. 14, ✓
Agriculture, impt. in. Peter Pardee, Trenton, Oneida co. N. Y.	Feb. 6, ✓
Axle-tree, safety carriage double. Ewd. G. Fitch, Blakely, Alab.	Feb. 7, ✓
Alphabet writing, called Lectography. J. B. Manning, Gloucester, Ms.	"16, ✓
Augers, impt. in screw. David Basset, Derby, Connecticut,	March 18, ✓
Axes, in the mode of making. John Alley, sen., Pisa, Indiana,	April 9, ✓
Auger hollow, impt. in. Abel Conant, Pepperell, Massachusetts,	June 11, ✓
Atmosphere and steam press. James Mead and M. Ketchell,	
Lebanon, Ohio,	July 27, ✓
Apples and fruits, preserving. Amos Hart Wharton, Pennsylvania,	Aug. 10, ✓
Auger, serpentine screw. George Shetter, York, Pennsylvania,	Sept. 10, ✓
Air furnace, oven, stove. Oliver Davidson, Johnstown, New-York,	Aug. 25, ✓
Anchors, faggoting. Jas. Tucker and I. Judge, Washington, D. C.	Nov. 19, ✓
Apples' paring machine. R. and A. Mosher, Galway, New-York,	Dec. 28, ✓

### B.

Boxes, sugar. Paul Pearson and John Howe, Alna, Maine,	April 15, 1828
Boats or other small crafts, making. Benjamin Phillips, Phila.	April 21, ✓
Bogging machine. James A. Post, Warwick Township, N. York,	April 23, ✓
Bedsteads, in the construction of. Silas Hyde, Arcadia, Wayne	
county, New-York,	May 2, ✓
Boilers for steam engines. James P. Allaine, New-York,	May 14, ✓
Bark mill, (and for corn) in the. J. Montgomery, Sangerfield, N. Y.	May 29, ✓
Brick, machine for striking. Eb. and D. W. Duty, Painsville, Ohio,	June 7, ✓
Barrels, kegs, &c. machine for making. Nathaniel Goodall and	
Loren Tainter, Watertown, New-York,	June 9, ✓
Bedstead, in the drum sacking. Hervey Wilbur, Newburypt; Ms.	June 16, ✓
Barrels, casks, &c. machine for making. John Hale, Oakum, Wor-	
cester county, Massachusetts,	June 21, ✓
Boot trees, impt. in. Henry B. Miller, Mayville, New-York,	Aug. 25, ✓
Bees, mode of managing honey. Francis Kelsey, Lockport, N. Y.	Aug. 26, ✓
Bobbins and flyers, making. Chas. Danforth, Ramapo, N. York,	Sept. 2, ✓
Bedsteads, fastenings for. Wm. Swift & Wm. Otteville, N. Bed-	
ford, Massachusetts,	Oct. 10, ✓
Bedstead, revolving rail & round tenon. Garret Post, Auburn, N. Y.	Oct. 11, ✓
Boilers, pipe for steam engine. Alden Potter, New-York,	Oct. 11, ✓
Boilers, in steam. Anthony Hermange, Baltimore,	Nov. 26, ✓
Boot trees, impt. in. Joshua Ayers, Brookfield, New-York,	Nov. 27, ✓
Brick, ma. for pressing. James Parker, M. D. Gardiner, Maine,	Nov. 29, ✓
Brick, pressing unburnt. Ephraim Mayo, Hallowell, Maine,	Dec. 9, ✓
Boats, on canals. Nat. Bingham & Pliny Warner, Rochester, N. Y.	Dec. 15, ✓
Bogging machine. John Gordon Copeck, Columbia cy. N. Y.	Jan. 13, 1829.
Blanks for checks, &c. Jas. Atwater, New Haven, Connecticut,	Jan. 21, ✓
Boats, propelling canal or other. S. D. Bennett, Butternutts, N. Y.	Jan. 30, ✓
Broom or brushes, making. David Wooster, China, Genessee	
county, New-York,	Feb. 16, ✓
Baking, apparatus for. Philip Willcox, Springfield, Mass.	Feb. 18, ✓
Brick, tile, &c. making. James Wood, Rockland county, N. Y.	March 3, ✓
Boilers for distilleries, &c. setting. John Lovat, Philadelphia,	March 17, ✓
Bobbin, forming the roll on the weaver's. John Thorp, Providence,	
Rhode Island,	March 20, ✓
Bellows, in the triangular. Wm. Sidney Jacks, New-York,	April 4, ✓
Buildings, ma. for removing heavy. Ep. Bowen, Ledyard, N. Y.	April 9, ✓
Roots, in measuring and cutting. Thos. Howe, Worcester, Mass.	April 18, ✓



Blood-letting and drawing milk from the breasts of women, impt. in	18...
D. Houghtaling and A. Monesly, Watervliet, New-York,	June 11,
Bedsteads, right and left hand screws. John P. Copcutt, N. York,	June 11,
Boilers, flat, for generating steam. D. Fanshaw & H. Hanks, do.	June 11,
Boots and shoes, ma. for pegging with plates. Nathan Leonard, Merrimack, New-Hampshire,	June 11,
Boxes for carriage wheels, cylinder conical. Thomas Massey, New-London, Conn.	June 11,
Blanks for checks, drafts, bills of exchange, &c. T. Atwater and N. Jocelyn, New-Haven, Conn.	June 11,
Bellows' tubs. Andrew A. McPharin, Huntington, Penn.	June 11,
Bedsteads. E. Rogers and M. Pearson, Essex co. Mass.	June 11,
Boots, crimping. Thomas Howe, Worcester, Mass.	June 11,
Boxes, cast, wrought iron, or wood, for saw mill gudgeons, wheels, etc. Sullivan Reynolds, Guildford, New-York,	June 11,
Bed bugs, apparatus for preventing their ascending bedsteads. James A. Clarke, Georgetown, D. C.	June 18,
Boats' loading, ascertaining the weight of. T. Cohoon, Troy, N. Y.	June 18,
Boat, canal passage. Jacob Bromwell, Cincinnati, Ohio,	June 23,
Boots and shoes, cutting. Samuel Marshall, Philadelphia, Pa.	June 23,
Boilers, steam. F. Coffin & C. K. Beach, Boston, Mass.	June 29,
Book binding. Jesse Torrey, jr. Germantown, Pa.	Aug. 8,
Blanks for checks, drafts, &c. Jas. Atwater, New Haven, Ct.	Aug. 18,
Boats, canal. Th. W. Bakewell, Cincinnati, Ohio,	Aug. 25,
Brick press. John Woodson, Rockbridge, Va.	Sep. 10,
Boots and shoes, manufacturing perpetual polished water proof. J. Rynix, I. Haskins, and S. Knower, Boston, Mass.	Sep. 3,
Binding wagon tire, hoops, bands, &c. Josiah Butler, Cobles- kill, N. Y.	Sep. 24,
Bilgeways. John Thomas, N. Y.	Oct. 10,
Bell hanging. James Russell, New-York,	Oct. 10,
Bit stocks, of composition. Augusta Phelps, Marlboro, Conn.	Oct. 10,
Boilers of a steam engine, for supplying. E. Young, Tate town. O.	Oct. 10,
Box churn. T. and L. Morrison, Groton, New-York,	Oct. 16,
Boots, manufacturing. Alden Burdick, Carroll, New-York,	Oct. 31,
Boilers. Joseph Hurd, jr. Boston, Mass.	Nov. 10,
Boats, propelling by a sculling wheel. Benjamin M. Smith, Ro- chester, New-York,	Nov. 20,
Brick machine. John S. Hanna, Mercer, Penn.	Nov. 23,
Boards, guide and sign. Stanley Carter, Raynham, Mass.	Nov. 25,
Buckets, pump. David Coon, Mendon, N. Y.	Nov. 28,
Bolting flour and meal. William H. Akins, Berkshire, N. Y.	Dec. 3,
Boiling and washing apparel, &c. I. T. W. Dennis, Paintville, O.	Dec. 16,
Bridges. Lewis Wernwag, Jefferson county, Va.	Dec. 22,
Burning bricks. N. Adams and A. Noyes, Cornwall, N. Y.	Dec. 28,
Barrels, &c. made by applying steam. J. Thompson, Philad.	Dec. 30,
C.	
Compass lamp, safety. J. & J. Feinour, jr. Philadelphia,	April 5, 1828
Carding wool, ma. for. H. A. Shannon, Columbia cy. N. York,	April 5,
Cotton, ma. for planting and cultivating. Rich'd Herbert, William- son county, Tennessee,	April 19,
Ghurn, impt. in the. Edward Spain, Mount Holly, New-York,	April 23,
Composition, fire & water proof. David Greer, Pittsburgh, Penn.	April 25,
Corn shelling machine. Wm. Hoyt, Vernon, Indiana,	April 29,
Canal boats, lowering and raising. Wm. Wiard, Avon, New-York,	May 1,
Clay pipes, impt. in. Thomas Wickersham, Newbury, New-York,	May 13,
Cutting out leather for shoes, ma. for. George P. Mitchell, Burlington, New-Jersey,	May 15,
Churn and washing machine. Daniel Read, Slaterville, N. York,	May 16,
Compass, fixing the mariner's. Lemuel Langley, Gosport, Va.	June 23,
Carriers' knife, in the. Isaac H. Harrington, Albany, New-York,	June 26,
Cough drops, in. Daniel E. Smith, Cornwall, Connecticut,	June 30,
Corn, machine for shelling. P. Grasjcau, Louisville, Kentucky,	July 29,
Canal boats, raising and lowering. Wm. Knight, Morristown, N. J.	Aug. 5,

Churn, in the. Joseph Hatheway, Canandaigua, New-York,	Aug. 22, 1828.
Carding, machine for wool. D. M. Bacon, Huntingdon, Penn.	Oct. 10,
Cotton, ma. for picking. J. Pinell & H. Maxon, Barboursville, Va.	Oct. 10,
Covering buildings, in the mode of. H. Knowles, Colchester, Conn.	Oct. 11,
Collars for dress coats. Henry Clarke, Brooklyn, Connecticut;	Nov. 7,
Cutting off pins, rivets, &c. ma. for. Abel Stevens, Andover, Ms.	Nov. 11,
Compressor, spiral curvilinear. Wm. Nelson, Batavia, N. York,	Nov. 13,
Canal locks, paddle gates. John F. King, Waterford, New-York,	Nov. 29,
Cables, in the ma. for proving. John Judge, Washington, D. C.	Nov. 29,
Cloth, in the manufac. of. J. P. & R. G. Hazard, Providence, R. I.	Dec. 6,
Combs, in the mode of shaping. Samuel Lambert, Hanover, Va.	Jan. 9, 1829
Cotton seed, in the ma. for hulling. Frances Follet, Petersburg, Va.	Jan. 21,
Churn, in the valve piston. Ben. Cushwa, Clear Spring, Maryland,	Jan. 24,
Corn, in the machine for planting. Matthew Lenox, Wm. Croft, and Henry Amer, Steubenville, Ohio,	Jan. 26,
Cutting wafers, leather for gloves, &c. Elisha Mills, Parris, France,	Jan. 28,
Cooking furnaces, ovens, &c. Leonidas V. Badger, Dover N. H.	Jan. 30,
Cider, in the ma. for making. Uri Emmons, New-York,	Jan. 31,
Cooking stove, in the premium railway. P. Williamson, Phila.	Feb. 16,
Carriages, ma, for raising the bodies of. T. Scott, Loudon, Penn.	March 3,
Cromamometer. Peter Pettinos, Philadelphia,	March 3,
Canal boats, in the construction of. B. Williams, Mendon, N. York,	March 3,
Carpeting, in making. Wm. Harrington, Harrison, New-York,	March 3,
Churn, impt. in the. Z. S. Doty, Groton Hollow, New-York,	March 17,
Clocks, in constructing. Aaron D. Crane, Caldwell, New-York,	March 18,
Cement, in water proof. Robert Leckie, Washington, D. C.	March 31,
Cooper work, in the ma. for making. Nat. Rider, Sturbridge, Ms.	April 1,
Cutting straw, & thrashing grain, ma. for. L. Rice, Lockport, N. Y.	April 1,
Chimneys, in building & repairing. A. H. Read, Montrose, Penn.	April 3,
Coffee mills, in the manufac. of. J. Carrington, Wallingford, Con.	April 3,
Cotton gin, impt. in the. Daniel Phillips, Natchez, Mississippi,	April 3,
Combs of wood, impt. in making. Nat. Bushnell, Middletown, Con.	April 14,
Carding machine, impt. in the. Chs. Atwood, Middletown, Con.	April 18,
Cider, in the ma. for making. Moses B. Bliss, Pittstown, Maine,	April 21,
Cheese curd, ma. for cutting. A. Morris, Sackett's Harbor, N. Y.	May 2,
Carding wool, in the ma. for. J. W. Shankland, Summerfield, Ohio,	May 5,
Carpeting, in the use of felt for. Aaron Byington, Herkimer, N. Y.	May 16,
Carpet, woollen, making of. W. Harrington, W. Chester, N. Y.	June 11,
Churn, impt. in. Cotton Foss, Gauga county, Ohio,	June 11,
Chimneys, sweeping and cleaning. Samuel Dow, Elizabeth Borough, New-Jersey,	June 11,
Combs, impt. in the manufac. of. J. Brown, Providence, R. I.	June 11,
Cotton gin, or cotton ginning machinery. Stephen T. Conn, N. Y.	June 11,
Carpet, or carpeting. Wm. Harrington, Harrison, N. Y.	June 11,
Gommode knob. Elijah Skinner, Sandwich, New Hamp.	June 11,
Churn. Cotton Foss, Perry, Ohio,	June 11,
Cider press. Daniel Pride, Potsdam, New-York,	June 11,
Cords & ropes, ma. for making. S. Hills, Glastonberry, Conu.	June 11,
Corn, shelling and cleaning. J. S. Gardiner, Canandaigua, N. Y.	June 11,
Chimneys, cleaning. S. Dow, Elizabeth Borough, New-Jersey,	June 11,
Cooking, applying heat by castings and grates, Peter E. Sanburn, Troy, New-York,	June 11,
Combs, snuff boxes, manufactured from raw hides. Samuel Pike, Providence, Rhode Island,	June 11,
Cap spinner runner. John Thorpe, Providence, Rhode Island,	June 11,
Chandeliers, lamps, &c. by crystallization of salts. Fred. B. Mer- rill, Buffalo, N. Y.	June 15,
Canal passage boat. Jacob Bromwell, Cincinnati, Ohio,	June 23,
Cutting boots & shoes. Samuel Marshall, Philadelphia, Penn.	June 23,
Cooking stove, for burning Lehigh and other coal. C. Schemer- horn, New-York,	June 23,
Churning cream and milk. Abner Murray, Athens, New-York,	June 27,
Cloth manufacturing, without spinning or weaving, &c. N. Peck and D. Taylor, Fairfield county, Connecticut,	June 28,

Cloths, making by machinery. Henry Raymond, New-York,	June 27, 1829.
Combs, making and ornamenting. E. Mustin, Phila. Penn.	June 29,
Cotton press, horizontal rack & pinion. Z. Bronson, Jasper, Geo.	July 7,
Current and tide wheel. Asa Madison, Detroit, Michigan Ter.	July, 10,
Churning and washing. Joel B. Pratt, Milo, New-York,	July 14,
Cloth, forming the web, without spinning or weaving. John Arnold, Norwalk, Connecticut,	July 15,
Cooking stove. E. E. Bennett, Sandy Hill, New-York,	July 17,
Chimneys, glass, mode of affixing to various lamps. Deming Jarves, Boston, Massachusetts,	July 20,
Compound for cleaning, biting, or sharpening files. A. P. and E. Brittingham, New-York,	July 27,
Cooking stove, double furnace. J. Richards, Claremont, N. H.	Aug. 5.
Cotton press. Philenzo Payne, Clairborne county, Mississippi,	Aug. 10.
Cloth; raising the knap by machinery. Z. Allen, Providence, R. I.	Aug. 10,
Cutting garments by a mathematical rule. O. Madison, Troy N. Y.	Aug. 18,
Cotton packing machine. Ob. Stith, Laurenceville, Virginia,	Aug. 25,
Canal boats. T. W. Bakewell, Cincinnati, Ohio,	Aug. 25,
Cloth, carpeting, &c. ma. for making. J. Barker, and L. Kinsley, Green county, Kentucky,	Aug. 29,
Cooking stove furnace. George Richards, Providence, R. I.	Sep. 9.
Covering houses with tin plate sheet iron. R. T. Tilden, Linchburgh, Virginia,	Sep. 10,
Carriage or car, railway self adapting. J. Wright, Columbia, Penn.	Sep. 10,
Circular planing engine. Uri Emmons, New-York,	Sep. 10,
Current water wheel, for mills. Jos. Wallace, Hartford, Kentuc.	Sep. 11,
Carriage, locomotive mach. of. Sands Olcott, Harsimus, N. J.	Sep. 11,
Copings for chimneys, fire guards. Chs. Neer, Waterford, N. Y.	Sep. 11,
Combs, rubbing down and polishing. L. B. Prindle and D. Curtis, Newtown, Connecticut,	Oct. 10,
Combs, making. Ely Sperry, New Haven, Connecticut,	Oct. 10,
Cotton cleaner. James Gilliam, Reedy Fork, South Carolina,	Oct. 10,
Churn and washer. Geo. B. Gibbs, Le Raysville, Pennsylvania,	Oct. 10,
Churn, called the Box churn. T. & L. Morrison, Groton, N. Y.	Oct. 16,
Churn. James C. Barrett, Collins, New-York,	Oct. 19,
Cooking grate. Thomas Vinton, Philadelphia, Pennsylvania,	Oct. 29,
Cradle, self moving. Anthony Ruchenberger, New-York,	Nov. 3,
Chandeliers of crystallized salts. Franklin Ransom, Buffaloe, N. Y.	Nov. 3,
Clocks, winding up. Richard Ward, Waterbury, Connecticut,	Nov. 5,
Churn. Horace Saxon, Paris, New-York,	Nov. 6,
Cooking stove. Joseph Hurd jr. Boston, Massachusetts,	Nov. 10,
Churn, oval. John Oothoudt, Lebanon, New-York,	Nov. 10,
Copper & tin ware, ma for making. O. Hubbard, Claremont, N. H.	Nov. 12,
Carbonated steel of wrought iron. Stephen Pope, New-York,	Nov. 20,
Chain wheel. I. Hines and E. D. McCord, Sandy Hill, N. York,	Nov. 20,
Coal cooking stove. W. Davis & R. W. Lord, New-York,	Nov. 23,
Compound as a substitute for oil in paints. L. I. Vankleek, Poughkeepsie, New-York,	Nov. 23,
Cloth washing, and fulling, making carpeting, &c. of wool, &c. Harvey Slayton, Lockport, New-York,	Nov. 25,
Churn. Hosea H. Groves, Auburn, New-York,	Nov. 30,
Churn, by lever power. Wm. Cook, Southport, New-York,	Dec. 7,
Cultivator. Isaac Cobb, Westminster, Vermont,	Dec. 7,
Cloth, shearing the knap of woollen. Merrit Hurd, Augusta, N. Y.	Dec. 7,
Cutter, shingle. Joel H. Johnson, Fredonia, New-York,	Dec. 8,
Cannon percussion primers, Lt. W. H. Bell, Fortress Monroe, Va.	Dec. 8.
Carriages for rail roads. John I. Reikers, Baltimore, Maryland,	Dec. 11.
Charring wood, for the manufacture of charcoal. Isaac Doolittle, Bennington, Vermont,	Dec. 14,
Cotton seed, hulling, husking and separating the hull from kernel, Francis Follet, Petersburg, Virginia,	Dec. 15,
Churn, labour saving. Samuel O. Brien, New-York,	Dec. 22,
Cotton seed, hulling &c. Jabez Smith, Petersburg, Virginia,	Dec. 23.
Casks &c. making by the ap. of steam. J. Thompson, Phil. Penn.	Dec. 30.

Distilling spirits from grain and fruit. J. Hegers, Hempfield Township, Westmoreland, Pa.	May 17, 1828.
Distilling spirits from the still shop. David White, Fredonia, N. Y.	June 17,
Dormant balance, for inflected spine. J. H. Casey, N. Y.	June 23,
Drub machine, called the Universal. S. Felton, Killbuck, O.	July 22,
Distilling, imp't. in. T. Lawes & P. Grosjean, Louisville, Ky.	July 30,
Dividing engine, circular and straight lined. R. Tyler, Philad'a.	Oct. 9,
Doors, mode of constructing. D. Williams, jr. Colchester, Ct.	Oct. 11,
Dye woods, ma. for cutting. Aaron Foster, Rochester, N. Y.	Dec. 9,
D.stalling, imp't. in. Jas. R. Nance, Floyd cy, In'a.	Dec. 27,
Dormant balances for inflected spine, (re-is'd.) originally dated June 23d, 1828. J. K. Casey, N. York,	Jan. 21, 1829
Drum bench, for straightening drums. L. N. Perry, Worcester, Ms	Jan. 23,
Docks, in the screw. John C. Ely, N. York,	Jan. 28,
D.y docks. Elias Selden, Haddam, Ct.	July 30,
Ditching and excavating ground for canals, &c. G. Henricks, Urbana, Ohio,	Aug. 5,
Draying and ferrying. L. C. Abernathy, Burlington, Ky.	Aug. 18,
Dye, manufac. by steam. Reuben Wood, Erin, N. Y.	Aug. 25,
Dams, river, for the easy passage of fish, &c. P. Magrath, Philad'a.	Oct. 10,
Dock screw for raising water. Elisha Turner, Rochester, N. Y.	Oct. 10,
Doors and windows, tightening. S. Hayward, Plainfield, Mass.	Oct. 18,
Double Leon spring power press. R. McOmber, Galway, N. Y.	Oct. 27,
Disaluhg the meal of maize or Indian corn. A. Doolittle, Ann Harbour, M. T	Nov. 10,
Door spring, for shutting doors. Lymus Burwell, Berlin, Ct.	Nov. 25,
Distributing ink for letter press printing. J. Prince, N. York,	Dec. 3,
Distilling. William Cook, Southport, N. York,	Dec. 7,
Discharging fire arms. Robt. Eastman, Brunswick, Maine,	Dec. 7,

## E. F.

Earth, machine for boring. J. R. Failing, Canajahorie, N. Y.	Aug. 25, 1828.
Eclipse speeder, for roping cotton. G. Brewster, Poughk'e, N. Y.	Apr. 18, 1829.
Excavating and ditching ground for canals. G. Henricks, Urbanna, Ohio,	Aug. 5,
Excavating earth under water by a metallic scraper. O. Teal, Salina, N. York,	Dec. 8,
Elevating heavy guns. Lt. W. H. Bell, Fortress Monroe,	Dec. 8,
Felloe lathe, in the wheelwright's. I. Sitton, J. A. Black, Columbia, S. C.	May 5, 1828.
Fountain hydrant. Lewis Gouley, Philadelphia, Pa.	Aug. 1,
Filters, construction of. J. S. Phillips, Philadelphia, Pa.	Aug. 27,
Fire and water proof cement. J. Coburn, Middlesex co. Mass.	Sep. 3,
Files, ma. for cutting. John Hatch, Roxbury, Mass.	Oct. 11,
Furnace for making iron, in the. B. B. Howell, Philadelphia,	Oct. 11,
Furnace for burning anthracite coal. B. B. Howell, Philadelp'a,	Oct. 14,
Felloes of wheels, for trucks, carts, coaches, &c. G. Andrews, Tolland, Ct.	Oct. 24,
Flax and hemp, on extracting the gum from unrotted. Sands Olcott, Harsimus, N. J.	Dec. 3,
Fences, in the mode of repairing. E. Pitkin, E. Hartford, Ct.	Dec. 13,
Fences, in cast iron, (re-issued Feb. 21, 1822) P. Hedl, N. Y.	Dec. 18,
Forge hammers, in the mode of hanging. J. McNeil, Colerain-township, Lancaster co., Pa.	Jan. 21, 1829.
Fanning mills, imp't. in. Justice Frary, Southampton, Mass.	Feb. 17,
Fenders for doors to keep out water, &c. W. Cole, and J. Johnson, Randolph, Mass.	Mar. 27,
Flax and hemp, ma. for cleaning. Amos Salisbury, Troy, N. Y.	April 14,
Flax and hemp, ma. for breaking. A. Langdon and J. C. Langdon, Troy, N. Y.	April 18,
Fire screen, for protecting buildings. C. Pierce, Salem, Mass.	April 29,
Fire and light. Isaiah Jennings, N. Y.	June 11,
Flax and hemp, ma. for breaking and cleaning. R. Medley, Bloomfield, Ky,	June 11,
Fire arms, &c. mag. to con. sev. charges. J. Miller, Brighton, Ms.	June 11,



Fork for digging.	W. H. Horton, Middletown, Ct.	June 15, 1829.
Felt of wool without spin'g or weav'g.	L. Van Voeson, Norw'k, Ct.	June 27,
Filterer for purifying water.	G. B. White, N. York,	July 7,
Fractured limbs applying splints.	D. S. G. H. Smith, Sutton, Ms.	July 7,
Flax and hemp dressing.	H. L. Barnum and M. Stevenson, Cambridge, N. Y.	July 8,
Furnace for heating rooms and houses.	C. Fowler, Hartford, Ct.	July 10,
Fulling and felting cloth.	J. D. Lounsbury, I. Arnold, G. Q. Bishop, and A. McLean, Norwalk, Ct.	July 15,
Files, a compound for cleaning, biting and sharpening damaged or worn out.	A. P. and E. Brittingham, N. Y.	July 27,
Felloes for wheels, mode of making by steaming and bending.	M. Blakeslee, Canaan, Ct.	July 29,
Flax and hemp, breaking and dressing.	A. Salisbury and I. C. Langdon, Troy, N. Y.	Aug. 29,
Flax and hemp, preparing for spinning or weaving.	L. F. Tilbitts, New Glasgow, Va.	Aug. 1,
Flax and hemp. machine for breaking.	I. L. F. Roumage, N. Y.	Aug. 6,
Ferrying and draying.	L. C. Abernathy, Burlington, Ky.	Aug. 18,
Fan, wheat.	G. Hoffman, Fredericktown, Md.	Aug. 21,
Forging iron by the portable trip ham.	S. Killburn, Sterling, Ms.	Aug. 18,
Felt, ma. for making, for cloth, padding for carpets.	I. Baker & I. Kruisly, Green co. Ky.	Aug. 29,
Furnace cooking stove.	G. Richards, Providence, R. I.	Sep. 9,
Fly net for horses.	H. Korn, Philadelphia, Penn.	Sep. 12,
Feathers, process of cleaning.	Charles Toupet, N. Y.	Oct. 13,
Floating saw mill.	John C. Ely, N. Y.	Oct. 21,
Friction reduction in rail road carriages.	H. Finlay, Balt. Md.	Oct. 27,
Fire places or furnaces with reflectors.	J. Hurd, jr. Boston, Mass.	Nov. 10,
Faggoting anchors.	J. Tucker & I. Judge, Washington, D. C.	Nov. 19,
Fuling, washing and scouring cloth, working hat bodies, making matting.	Harvey Slayton, Lockport, N. Y.	Nov. 25,
Fence, of wire, or twine, and in mak. seines or nets.	C. Hall, Meriden, Ct.	Nov. 27,
Flour and meal bolting.	W. K. Akins, Berkshire, N. Y.	Dec. 3,
Fire arms, mode of discharging.	R. Eastman, Brunswick, Me.	Dec. 7,
G.		
Gun or rifle, in the double shooting.	S. Mosher, & N. White, Hamilton, N. York,	May 5, 1828.
Glass furniture knobs, in making.	T. & T. P. Bakewell, Pittsburg	May 14,
Gun lock, in the.	N. Saltonstall, New London, Ct.	May 29,
Gin feeder, in the.	T. Eubanck, jr., Glasgow, Ky.	May 29,
Gauge, for slitting lath, &c.	B. K. Crandell, Lockport, N. Y.	Aug. 25,
Gun lock, self priming percussion.	S. L. Faries, Middletown, O.	Aug. 29,
Glass, imp't. in melting and fusing.	T. W. Dyott, Philadelphia,	Oct. 10,
Gold and silver ores, mill for grind. wash. &c.	W. H. Folger, Charlotte, N. C.	Feb. 13,
Grain, imp't in the ma. for thrashing.	J. S. Wood, Botetourt, Va.	Jan. 9, 1829.
Grinding Indian corn, ma. for.	T. Baker, nr. Statesbury, S. C.	Jan. 21,
Grinding steel dies, &c. imp't. in.	W. Robinson, Attleboro', Mass.	Mar. 3,
Grinding sand and clay together, ma. for.	A. Cushman, Sumner, Me.	Mar. 3,
Gun locks, in the construction of.	E. Gilbert, Rochester, N. Y.	April 3,
Gun, revolving 4 bar'd and perc'n lock.	H. Rogers, Middletown, O.	May 7,
Guns and fire arms.	Joshua Shaw, Philadelphia,	May 7,
Gin, cotton, imp't. in the construction of.	S. T. Conn, N. York,	June 11,
Glass knobs with the shank or screw of glass.	D. Jarves, Boston,	June 11,
Gold dust, &c. wash. clear. & sepa't'g.	R. Lee, Ervinsville, N. C.	July 8,
Gridiron.	J. Powers, Lansingburg, N. York,	Aug. 10,
Grist mills.	I. McKersham & T. Crozer, East Fairfield, O.	Aug. 20,
Gold, sepa'g. & wash. from alluvial earth, &c.	W. H. Folger, Charlotte, N. C.	Sep. 10,
Guns, called the eight barrelled percussion gun.	S. L. Faries, Middletown, O.	Oct. 10,
Grate cooking.	Thomas Vinton, Philadelphia, Pa.	Oct. 29,



Guide and sign boards. S. Carter, Raynham, Mass.	Nov. 25, 1829.
Guns, elevating heavy. Lt. W. H. Bell, Fortress Monroe, Va.	Dec. 8,
Grist mill and horizon. spiral ma. wheel. A. Temple, Brookf'd, O.	Dec. 11,
Grist mill. Mark L. Chase, Frankfort, Maine,	Dec. 23,

## H.

Hemp, ma. for breaking. I. S. Van de Graff, Scott co. Ky.	May, 28, 1828.
Horse shoes, making. R. E. Hobart, Pottstown, Pa.	May 24,
Hat bodies, mode of manuf. G. L. Thatcher, Brooklyn, N. Y.	May 31,
Hammers, cast iron. T. Jones, Glastonbury, Ct.	July 31,
Hemp, mode of preparing the black lint of. A. K. Smedes, Lexington, Ky.	Oct. 11,
Hats or felts, ma. for carding and winding. T. Sanford, Blockley, Phila.	Oct. 11,
Hubs, in cast iron. W. Dickinson, Batavia, N. Y.	Oct. 11,
Hoes, for weeding, imp't. in ma. J. A. Black, Columbia, S. C.	Oct. 13,
Hubs & axle trees for wheels, &c. imp't. in. Phineas Slayton, Lockport, N. Y.	Oct. 27,
Hat bodies, in the mode of forming. H. F. Nest & A. H. Stevens, Richland, Oswego co. N. Y.	Oct. 29,
Heat, in the production and management of. S. A. Bill, N. York,	Nov. 8,
Horses, imp't. in the mode of feeding. A. Carman, H. Parke, N. Y.	Nov. 27,
Hammers, imp't. in nail. C. A. Strong, So. Glastonbury,	Mar. 3, 1829.
Hat bodies, ma. for forming. B. Laphane & E. Cady, Canaan, N. Y.	Apr. 15,
Hemp and flax, for breaking. I. Y. Watson, I. Blossom, & A. Burnett, Salem, N. Y.	Apr. 21,
Hemp, flax, in the. Thomas Cahoon, Troy, N. York,	April 25,
Hat bodies, ma. for mak. A. Clarke and H. Chase, Falmouth, Ms.	June 11,
Hemp and flax, break. & clean. R. Medley, Bloomfield, Ky.	June 11,
Heat, applying by means of cast iron grates, &c. P. E. Sanburn, Troy, N. York,	June 11,
Hide, raw, manufac. into transparent material, &c. S. Pike, Providence, R. I.	June 11,
Hat bodies, mode of mak. by ma. L. Van Hoesen, Norwalk, Ct.	June 19,
Hulling and clean. rice, coffee, clover seed, &c. Z. Bronson, Geo.	July 7,
Hoe. Gideon Freeborn, New York,	July 7,
Hemp and flax, dres. H. L. Barnum & M. Stephenson, Camb'e, N. Y.	July 8,
Hair dressing by a hatchelling ma. W. Chubb, N. York,	July 9,
Heating rooms and houses by means of a furnacc. C. Fowler, Hartford, Ct.	July 10,
Hemp and flax, break. & dres. A. Salisbury & I. C. Langdon, Troy, N. Y.	July 29,
Hemp and flax, prep. for spin. or weav. L. Tibbitts, N. Glasgow, Va.	Aug. 1,
Hemp and flax, ma. for break. I. L. F. Roumage, N. York,	Aug. 6,
Hats, stiffening. J. D. Wilson, New York,	Aug. 6,
Houses, cov. with tin plate zinc. R. S. Tilden, Lynchburg, Va.	Sep. 10,
Hubs of iron for carriage wheels, making. H. Thomas, Middleborough, Mass.	Sep. 11,
Harness trimmings and carriage ornaments. W. S. Robinson, Taunton, Mass.	Sep. 22,
Harpoon. Jonathan Sizer, 2d., New London, Ct.	Oct. 16,
Hydraulic power. Z. & A. Parker, Cohorton co., O.	Oct. 19,
Hulling or husking cotton seed. F. Follet, Petersburg, Va.	Dec. 15,
Hat bodies, setting up and forming. O. Root, Montg'y co. N. Y.	Dec. 19,
Hulling or husking cotton seed. J. Smith, Petersburg, Va.	Dec. 28,
Hogsheads, &c. mak. by the app. of steam. J. Thompson, Phila'a.	Dec. 30,

## I. J.

Iron, in the man. of maleable. B. B. Howell, Philadelphia,	Nov. 6, 1828.
Jack screws, for stowing goods. T. Evans, N. York,	Feb. 16, 1829.
Ice, in the apparatus for cutting. N. J. Wyeth, Cambridge, Miss.	Mar. 8,
Iron, improved mode of working or forging by ma., called the portable trip hammer. S. Kilburn, Sterling, Mass.	Aug. 18,
Inking types, stereotype plates, wood cuts, casts, &c. William J. Stone, Washington, D. C.	Oct. 20,
Ink, distributing, applied to letter-press printing. John Prince, New-York,	Dec. 5,

Knot shuttles, impt. in.	John Thorp, Providence, R. I.	Nov. 20, 1828.
Knobs, with the stand or screw of glass.	Deming Jarves, Boston,	June 11, 1829.
Knob Commode.	Elijah Skinner, Sandwich, N. H.	June 11,
Knife sharpener.	William I. Dunn, New-York,	Aug. 18,
Kilns, line, construction of.	Louis Borneisler, Philadelphia,	Sept. 10,
Knob lock.	James Patterson, Pittsburg, Penn.	Oct. 19,
Longimeter, impt. in the machine called the.	Abel Bayrd, South Reading, Mass.	July 16, 1828.
Lath or other lumber manufacturing.	Levi Rice, Lockport, N. Y.	July 23,
Lamp, called the Signal.	Jos. Feinour and Jos. Feinour jr. Phil.	Aug. 1,
Loom, check and plaid power.	Enoch Burt, Oliver D. Boyd and Amos H. Boyd, Manchester, Connecticut,	Aug. 19,
Lotteries, mode of drawing.	J. D. Cohen, Baltimore,	Aug. 28,
Leather, preparing belt picker.	John I. Travis, Franklin co. N. Y.	Oct. 23,
Liquors, drawing and corking sparkling.	Stein A. Bille, N. Y.	Nov. 8,
Locomotive engines, for rail-roads, &c.	William Howard, Balt.	Dec. 10,
Leather, machine for rolling.	Henry Alexander, New-York,	Dec. 23,
Leather, machine for sizing and polishing.	Abel Bayrd, South Reading, Mass.	Dec. 29,
Lamp, with the ingredients for burning.	Isaiah Jennings, N. Y.	March 3, 1829.
Loom, impt. in the common.	W. Levally, Canterbury, Conn.	March 20,
Locks, for doors, &c.	Freeman Bartholomew, New-York	April 3,
Ley from soap, used as a flux for glass.	George H. Burgin, Phil.	April 3,
Loom, impt. in the power.	Amassa Stone, Providence, R. I.	April 30,
Lamps, impt. in the construction of.	Isaiah Jennings, New-York,	June 11,
Light, impt. in producing, and fire.	Isaiah Jennings, New-York,	June 11,
Lamps, mode of affixing glass chimneys.	Deming Jarves, Boston,	July 20,
Lotteries, impt. in drawing.	Malcomb D. Orleans, Louisiana,	July 30,
Lamps, and producing light, impt. in.	Isaiah Jennings, New-York,	Sept. 10,
Lime kilns, construction of.	Louis Borneisler, Philadelphia, Pa.	Sept. 10,
Locomotive carriage, applying the principle of ground, chain, or rope and drum to the use of inclined planes, for rail-roads.	Sands Olcott, Harsimus, New-Jersey,	Sept. 10,
Lock, knob.	James Patterson, Pittsburg, Penn.	Oct. 19,
Lever propelling wheels, for vessels.	John J. Giraud, Baltimore,	Dec. 1,
Lathe, turning.	Elijah Putnam, Gardner, Mass.	Dec. 9,
M.		
Morticing machine.	Wm. E. Marsh, Westfield, New-Jersey,	April 18, 1828.
Metallic bands, for conveying power.	Joseph Eve, Augusta, Geo.	May 1,
Mortar, for pounding rice in.	J. Ravenel, Charleston, S. C.	May 17,
Marine railway, impt. in.	J. H. Greene, Providence, R. I.	May 26,
Mill, impt. in grist.	Jos. Crail, Warrens, Ohio,	June 19,
Medicine, impt. in.	John Dent, Augusta, Georgia,	July 2,
Mats, manufactured from manilla and other grasses.	Samuel S. Williams, Roxbury, Massachusetts,	Aug. 22,
Mill for grinding corn & other grain.	R. Medley, Bloomfield, Ken.	Sep. 5,
Mill, impt. in the grist.	J. Smith & W. Sapp, Mount Vernon, Ohio,	Sep. 9,
Morticing and tenoning ma.	W. J. Jackson and I. I. Speed jr. Speedville, Tompkins county, New-York,	Oct. 10,
Measure case ruler, triangular.	Allen Ward, Philadelphia,	Oct. 11,
Mills for grinding, shelling, &c.	B. M. Kemp, Fort Plain, N. Y.	Jan. 31. 1829.
Mills and ma. in the impelling power of.	B. S. Ridgeway, Charleston, South Carolina,	Feb. 6,
Mill for grinding paints, trumpet mouthed.	Samuel Cook, Worcester county, Massachusetts,	March 3,
Mill stone, impt. in the.	David Philips, Natchez, Mississippi,	April 3,
Marine railway, impt. in the.	Daniel Rogers, Mobile, Alabama,	April 3,
Metals, composition used in refining.	H. B. Chew and E. V. Freeman, Baltimore, Maryland,	April 7,
Mill, impt. in the iron.	I. W. and Calvin Post, Cayuga co. N. Y.	April 11,
Morticing machine, impt. in the.	Luther Davis, Northampton, Ms.	April 14,
Mill for grinding grain, paints, &c.	Henry Averill, Richland, Orange county, New-York,	April 30,
Mill for grinding grain, &c. by wind power.	David M. Collier, Hudson, Portage county, Ohio,	May 2,

- Music, impt. in the notes of. W. C. Philips, Lunenburg C. H., V. June 11, 1829.
- Milk, drawing from the breasts of women, and blood-letting. D. Houghtaling and A. Monesly, Watervliet, N. Y. June 18,
- Morticing, sawing and boring. Reuben Medley, Bloomfield, Ken. July 7,
- Mill ma. for the manufac. of flour & meal. W. Parkinson, Wheel'g July 31,
- Mathematical ruler, for cutting garments. O. Madison, Troy, N. Y. Aug. 18,
- Manuring wagon. James Bowman, Coosawatches, S. Carolina, Aug. 12,
- Motion to mills communicated by a current wheel. Joseph Wallace, Hartford, Kentucky, Sept. 11,
- Milling. Jesse Reeder, Lebanon, Ohio, Oct. 31,
- Mucilagenous compound, substitute for oil. L. J. Vankleck, Poughkeepsie, New-York, Nov. 23,
- Mill, grist. Mark L. Chase, Frankfort, Maine, Nov. 23,
- Nostrums for curing gout, rheumatism, &c. E. Smith, N. York, Dec. 15, 1828.
- Napping cloth, in the ma. for. M. R. Norris & L. Philips, Covington, New York, Mar. 21, 1829.
- Navigation, imp. in the ma. used in. A. Heildbroun, N. York, Mar. 16,
- Nail machine, impt. in feeding. T. Odiorne, Malden, Ms. April 3,
- Nails and rivets, ma. for making. S. G. Reynolds, Bristol, R. I. April 13,
- Night angels, or app. for prevent'g bed bugs ascending the posts of bedsteads. James A. Clark, Georgetown, D. C. June 13,
- Nails and screws, ma. for mak. wrought. S. I. Gould, Litchfield, Connecticut, July 25,
- Nap of woollen cloths, raised by ma. Z. Allen, Providence, R. I. Aug. 10,
- Nets for horses. Henry Korn, Philadelphia, Pa. Sep. 12,
- Napping hats, &c. Daniel Baldwin, Ithica, N. Y. Oct. 15,
- Nets, seines, or fence of wire cords or twine. Chauncey Hall, Meriden, Ct. Nov. 27,
- Nap of woollen cloth, shearing. M. Hurd, Augusta, Co. N. Y. Dec. 7,
- Nails, wrought or drawn. S. Davis, jr. Dartmouth, Mass. Dec. 8,
- Oven, portable. Francis L. Hedenburg, New York, April 26, 1828.
- Oyster platform. John Freeland, New York, Apr. 29,
- Oil, mode of refining. Charles E. Ruggles, New York, July 20, 1829.
- Ornaments for carriages and harness trimmings. W. S. Robinson, Taunton, Mass. Sep. 22,
- Ovens, with reflectors. Jas. Hurd, jr. Boston, Mass. Nov. 10,
- Oval churn. John Oathoudt, Lebanon, New York, Nov. 10,
- Oil, mucilagenous; compound as a substitute. L. Vankleck, Poughkeepsie, New York, Nov. 23,

## P.

- Press, impt. in the lever. W. Lynn, Danville, Va. April 25, 1828.
- Printing ma. or roller press. G. W. Cartwright, Chester co. N. Y. April 29,
- Pipes, in the mode of testing leaden. T. Packard, Shelburn, Ms. April 29,
- Propeller, in the spring and valve marine. Wm. Willis, Charleston, S. C. May 2,
- Percussion gun lock, for fire arms. O. Moses, Malone, Franklin, N. Y. May 8,
- Plugs, ma. for cutting. James Josslyn, (ass. to his brother Christopher,) New York, May 3,
- Percussion gun lock, having a magazine. Jedediah Caswell, Onondaga co. New York, May 8,
- Pegs, in the ma. for cutting. H. Thurber, Painted Post co. Pa. May 22,
- Printing press, for copper plates. C. Durand, N. York, May 22,
- Paper, prep. straw, hay, &c. for mak. W. Magaw, Crawford co. Pa. May 22,
- Press, for mak. oil, in the. C. How, of Moreton, Wash. co. Fred. May 24,
- Percussion gun lock, in the. Brewster of Colchester, and J. Johnson Chittenden, of Vermont, J. Lawrence, N. Berlin, N. Y. May 24,
- Printing press, in the cylindrical. C. G. Williams, N. York, May 29,
- Propelling vessels, impt. in. A. Hermange, Baltimore, May 31,
- Paper ma. for man. in the sheet. M. Huddick, New York, July 17,
- Pump, app. of power to the common. N. Underwood, Balt. co. M. July 17,
- Press, for cheese, &c. D. Hitchcock & C. Stone, N. York, July 24,
- Pump, quadruple forcing. Ira Ferris, Chatauque, N. York, Aug. 12,
- Propelling vessels, (horizontal wheels). H. Case, Norway, O. Aug. 13,
- Paper, method of ruling. Cayetana Lanuzd, New York, Aug. 13,
- Piano fortes, fitting hammer heads. J. MacKay, Boston, Mass. Aug. 14,

Printing press roller. J. Laird, Pittsburg, Penn.	Aug. 16, 1828.
Propelling boats, hydraulic. B. Phillips, Southwark, Philadel.	Aug. 16,
Planting grain, &c. ma. for. Orson Starr, Richmond, N. York,	Aug. 22,
Paper man. ma. R. Waterman & G. W. Annis, Providence, R. I.	Aug. 30,
Pump for drawing beer, in the. L. Pitkins, Rochester, N. Y.	Oct. 11,
Pen maker, in the microscopic. J. Bennett, Lowell, Mass.	Oct. 11,
Paper, in the top press roller, for mak. M. Hunting, Watertown, Ms.	Oct. 20,
Plough, impt. on the one patented Jan. 28, 1826. S. McCormick, Fauquier co. Va.	Oct. 22,
Percussion cannon lock, in the. J. Shaw, Philadelphia, Pa.	Oct. 24,
Propelling boats across ferries. S. Ross, Troy, New York,	Oct. 30,
Paper, in the man. of. A. & N. A. Sprague, Fredonia, N. Y.	Oct. 31,
Plough, in the side hill. N. Staples, Penn's store, Patrick co. Va.	Nov. 1,
Propelling ships, &c. imp't in ma. for. A. Hermange, Baltimore,	Nov. 26,
Do. do. do.	
Pump boxes, impt. in. I. P. Williams & S. G. Rea, Salem, Mass.	Dec. 9,
Planing and tonguing ma. W. Woodworth, Hudson, N. Y.	Dec. 27,
Press, impt. in the. T. & I. P. Bakewell, Pittsburg, Pa.	Jan. 14, 1829.
Press, in the compound lever. John Rodgers, Maury co. Tenn.	Jan. 21,
Pegs, ma. for mak. shoe. S. Beckwith, S. Beckwith, jr. & E. Beckwith, Oneida co. N. Y.	Jan. 27,
Pitch forks, impt. in the making 4 or more tined. C. Perkins, Waterbury, Ct.	Jan. 27,
Planing and matching boards, ma. for. C. Taylor, Collins, N. Y.	Feb. 7,
Plane, in the grooving. J. Longanecker & C. Myers, Lancaster, Pa.	Feb. 7,
Pressing and raising weights, ma. for. T. Cumings, Mayville, N. Y.	Feb. 19,
Packing cotton, tobacco, &c. for. T. Jennings, Statesbury, S. C.	Mar. 3,
Press for cider and other purposes. D. Reed, Easton, Mass.	Mar. 3,
Picture frames, for looking glasses, &c. ornamenting. I. Parker, and S. P. Clover, New York,	Mar. 23,
Propelling carriages, mills, &c. by weights. M. F. Colburn, Balt.	April 7,
Pencil cases, in the ever pointed. J. Saxton, Philadelphia, Pa.	April 11,
Printing press, Washington. S. Rust, No. 64, Eldridge st. N. Y.	April 17,
Paper making, cylindrical ma. for. I. Sanderson, Milton, Mass.	April 18,
Planing, grooving and tonguing, ma. for. U. Emmons, N. Y.	April 25,
Paper making, the agitator used in. R. Fairchild, Trumbul, Ct.	May 4,
Plough. James Boatwright, Columbia, S. C.	June 11,
Propelling boats or wagons, called propellers. J. White, Mauch Chunk, Pa.	June 11,
Press, cider. Daniel Pride, Potsdam, N. Y.	June 11,
Pegging ma. for boots and shoes. N. Leonard, Merrimack, N. H.	June 11,
Plough, double. P. & B. Altenderfer, Cootstown, Pa.	June 11,
Plough, cast iron. J. Minturn, Urbana, Ohio,	June 11,
Paddle wheels. Benjamin Howard, Worcester, Mass.	June 11,
Plough. John Rhodes, Urbana, Ohio,	June 11,
Power windlass. Wm. Pennell, Brunswick, Maine,	June 29,
Printing press. John I. Wells, Hartford, Connecticut,	June 29,
Press, horizontal rack & pinion, cotton. Z. Bronson, Jasper co. G.	July 7,
Pumps for ships. Manuel Francis, Boston, Mass.	July 7,
Pumps. Russel Wileman, East Hartford, Ct.	July 9,
Plough, wholly of iron. J. Boynton, S. Coventry, Ct.	July 10,
Punching ma. &c. Chs. Angel, Philadelphia, Pa.	July 15,
Power press, for punching copper, &c. for ships' use. G. Darracott, Boston, Mass.	July 21,
Printing ma. styled the typographer. W. A. Burt, Detroit, M. T.	July 23,
Pencil, ever pointed, a slide instead of a screw. W. Jackson, Phil- adelphia, Pa.	July 27,
Preserving apples, vegetables, &c. A. Hart, Wharton towns'p, Pa.	Aug. 10,
Press, cotton. P. Payne, Claiborne co. Miss.	Aug. 10,
Packing cotton. O. Stith, Lawrenceville, Va.	Aug. 25,
Printing press. Messrs. Booths, New York,	Sep. 1,
Press, brick. J. Woodson, Rockbridge co. Va.	Sep. 10,
Privies and vaults. Thos. Rundle, Boston, Mass.	Sep. 10,
Planing engine, circular. Uria Emmons, New York,	Sep. 10,
Paper, made from straw. Louis Bomeisler, Philadelphia, Pa.	Sep. 10,



Plough. Thomas Brown, New York,	Sep. 11, 1829.
Pannels for carriages, ma. for cutting vencers, &c. J. White and P. Quinsby, Belfast, Maine,	Sep. 12,
Pump, common water. J. W. Hillias, Baltimore, Md.	Sep. 16,
Planting and dropping all kinds of seed and preparing them, &c. Zeberia Lane, Harrisburg, N. Y.	Sep. 21,
Perpetual polished water proof boots and shoes. I. Ryner, I. Haskins, S. Knower, Boston, Mass.	Sep. 23,
Power, application of, to or on ma. R. Mitchel, Cynthiana, Ky.	Oct. 10,
Plane, inclined, for raising & lowering boats on canals. E. Morris, Bloomfield township, N. J.	Oct. 13,
Power, hydraulic. Z. & A. Parker, Cohorton co. Ohio,	Oct. 19,
Plough. R. Reeder, & S. D. Ashley, Madisonville, Ohio,	Oct. 21,
Plough. Timothy Miller, Pittsburg, Pa.	Oct. 23,
Pressing cheese, tobacco, apples for cider, hay, paper, &c. Richard McOmber, Galway, N. York,	Oct. 27,
Perambulator. Anthony Gifford, West Point, Mass.	Oct. 27,
Pumps for ships. John B. Pell, New York,	Oct. 31,
Plate, stereotype. Nathan Hale, Boston, Mass.	Nov. 20
Pump buckets. David Coon, Mendon, N. Y.	Nov. 28,
Paddle wheels. Jacob Perkins, London, England,	Nov. 30,
Propelling vessels by means of inside lever propelling wheels. J. J. Giraud, Baltimore, Md.	Dec. 1,
Press, called Bramah's hydrostatic press. D. H. Mason & M. W. Baldwin, Philadelphia, Pa.	Dec. 2,
Percussion primers for cannon. Lt. W. H. Bell, Fortress Monroe,	Dec. 8,
Power of tide water, app. to ma. for any required use. Henry M. Western, New York,	Dec. 23,
Paring apples. R. & A. Mosher, Galway, New York,	Dec. 28,
Power machine. W. Hosford, jr. Washington township, O.	Dec. 31,

## R.

Rope reeding, ma. in the. A. Boring & W. W. Jones, Thornville, Perry co. O.	May 5, 1828.
Raising ships, &c. out of water. J. H. Greene, Providence, R. I.	June 26,
Reaping and thrashing grain. Sam. Lane, Hallowell, Maine,	Aug. 8,
Resin for heating ovens, &c. app. of. R. L. Wood, Philadelphia,	Oct. 10,
Rags, ma. for cutting. M. Y. Beach, Springfield, Mass.	Oct. 11,
Railway carriages, impt. in. R. Winans, Vernon, Sussex co. N. J.	Oct. 11,
Rack and pinion, in the double. J. Woodhull, Livingston co. N. Y.	Nov. 12,
Railway carriage, impt. in the. W. Howard, Baltimore, Md.	Nov. 22,
Rags, in the ma. for cleaning. W. Debit, East Hartford, Ct.	Jan. 13, 1829,
Rags, in the mode of whitening for paper. John W. Cooper, Washington township, Franklin co. Penn.	Feb. 7,
Reeding or fluting, ma. for. John January, Greenville, Ky.	Mar. 3,
Roller or wheel roads, and carr's for. J. Gardiner, Washington, D. C.	Mar 16,
Railway carriages, impt. in. Isaac Knight, Baltimore, Md.	Mar. 18,
Razor straps, impt. in. Gooding Holloway, Chester co. Ohio,	April 3,
Rice mill, impt. on R. King's. J. Ravenel, Charleston, S. C.	April 3,
Rail road carriages, impt. in. John L. Sullivan, Philadelphia, Pa.	April 6,
Rail road carriages, friction wheels for inside the axle. Henry B. Chew, Baltimore, Md.	April 9,
Rail roads, and carriages in. J. Wright, Lancaster co. Penn.	April 17,
Railway carriages, in the cylindrical. P. Fleming, Albany, N. Y.	May 4,
Rail roads and rail road carriages. Isaac Knight, Baltimore, Md.	June 11,
Rail roads, for a carriage to turn out and in on a railway. James Wright, Columbia, Pa.	June 11,
Rifle, for sharpening scythes. B. Swift, Washington, N. Y.	June 11,
Rotary steam engine. D. B. Lee & S. Stewart, Philadelphia, Pa.	June 11,
Ropes and cords, making from raw material. Stephen Hills, 2d, Glastonberry, Ct.	June 11.
Rifles, muskets, &c. magazine to contain several charges. James Miller, Brighton, N. Y.	June 11,
Rice, coffee, clover seed, &c. hulling and cleaning. Zenos Bronson, Jasper co. Geo.	July 7,
Rotary motion, app. of steam to produce it. Joseph Mount, Nashville, Tenn.	July 16.



Printing press roller. J. Laird, Pittsburg, Penn.	Aug. 16, 1828.
Propelling boats, hydraulic. B. Phillips, Southwark, Philadel.	Aug. 16,
Planting grain, &c. ma. for. Orson Starr, Richmond, N. York,	Aug. 22,
Paper man. ma. R. Waterman & G. W. Annis, Providence, R. I.	Aug. 30,
Pump for drawing beer, in the. L. Pitkins, Rochester, N. Y.	Oct. 11,
Pen maker, in the microscopic. J. Bennett, Lowell, Mass.	Oct. 11,
Paper, in the top press roller, for mak. M. Hunting, Watertown, Ms.	Oct. 20,
Plough, impt. on the one patented Jan. 28, 1826. S. McCormick, Fauquier co. Va.	Oct. 22,
Percussion cannon lock, in the. J. Shaw, Philadelphia, Pa.	Oct. 24,
Propelling boats across ferries. S. Ross, Troy, New York,	Oct. 30,
Paper, in the man. of. A. & N. A. Sprague, Fredonia, N. Y.	Oct. 31,
Plough, in the side hill. N. Staples, Penn's store, Patrick co. Va.	Nov. 1,
Propelling ships, &c. imp't in ma. for. A. Hermange, Baltimore,	Nov. 26,
Do. do. do.	do.
Pump boxes, impt. in. I. P. Williams & S. G. Rea, Salem, Mass.	Dec. 9,
Planing and tonguing ma. W. Woodworth, Hudson, N. Y.	Dec. 27,
Press, impt. in the. T. & I. P. Bakewell, Pittsburg, Pa.	Jan. 14, 1829.
Press, in the compound lever. John Rodgers, Maury co. Tenn.	Jan. 21,
Pegs, ma. for mak. shoe. S. Beckwith, S. Beckwith, jr. & E. Beckwith, Oneida co. N. Y.	Jan. 27,
Pitch forks, impt. in the making 4 or more tined. C. Perkins, Waterbury, Ct.	Jan. 27,
Planing and matching boards, ma. for. C. Taylor, Collins, N. Y.	Feb. 7,
Plane, in the grooving. J. Longanecker & C. Myers, Lancaster, Pa.	Feb. 7,
Pressing and raising weights, ma. for. T. Cumings, Mayville, N. Y.	Feb. 19,
Packing cotton, tobacco, &c. for. T. Jennings, Statesbury, S. C.	Mar. 3,
Press for cider and other purposes. D. Reed, Easton, Mass.	Mar. 3,
Picture frames, for looking glasses, &c. ornamenting. I. Parker, and S. P. Clover, New York,	Mar. 23,
Propelling carriages, mills, &c. by weights. M. F. Colburn, Balt.	April 7,
Pencil cases, in the ever pointed. J. Saxton, Philadelphia, Pa.	April 11,
Printing press, Washington. S. Rust, No. 64, Eldridge st. N. Y.	April 17,
Paper making, cylindrical ma. for. I. Sanderson, Milton, Mass.	April 18,
Planing, grooving and tonguing, ma. for. U. Emmons, N. Y.	April 25,
Paper making, the agitator used in. R. Fairchild, Trumbul, Ct.	May 4,
Plough. James Boatwright, Columbia, S. C.	June 11,
Propelling boats or wagons, called propellers. J. White, Mauch Chunk, Pa.	June 11,
Press, cider. Daniel Pride, Potsdam, N. Y.	June 11,
Pegging ma. for boots and shoes. N. Leonard, Merrimack, N. H.	June 11,
Plough, double. P. & B. Altenderfer, Cootstown, Pa.	June 11,
Plough, cast iron. J. Minturn, Urbana, Ohio,	June 11,
Paddle wheels. Benjamin Howard, Worcester, Mass.	June 11,
Plough. John Rhodes, Urbana, Ohio,	June 11,
Power windlass. Win. Peinell, Brunswick, Maine,	June 29,
Printing press. John I. Wells, Hartford, Connecticut,	June 29,
Press, horizontal rack & pinion, cotton. Z. Bronson, Jasper co. G.	July 7,
Pumps for ships. Manuel Francis, Boston, Mass.	July 7,
Pumps. Russel Wileman, East Hartford, Ct.	July 9,
Plough, wholly of iron. J. Boynton, S. Coventry, Ct.	July 10,
Punching ma. &c. Chs. Angel, Philadelphia, Pa.	July 15,
Power press, for punching copper, &c. for ships' use. G. Darracatt, Boston, Mass.	July 21,
Printing ma. styled the typographer. W. A. Burt, Detroit, M. T.	July 23,
Pencil, ever pointed, a slide instead of a screw. W. Jackson, Phil- adelphia, Pa.	July 27,
Preserving apples, vegetables, &c. A. Hart, Wharton townsh'p, Pa.	Aug. 10,
Press, cotton. P. Payne, Claiborne co. Miss.	Aug. 10,
Packing cotton. O. Stith, Lawrenceville, Va.	Aug. 25,
Printing press. Messrs. Booths, New York,	Sep. 1,
Press, brick. J. Woodson, Rockbridge co. Va.	Sep. 10,
Privies and vaults. Thos. Rundle, Boston, Mass.	Sep. 10,
Planing engine, circular. Uria Emmons, New York,	Sep. 10,
Paper man. from straw. Louis Bomeisler, Philadelphia, Pa.	Sep. 10,

Plough. Thomas Brown, New York,	Sep. 11, 1829.
Pannels for carriages, ma. for cutting vencers, &c. J. White and P. Quinsby, Belfast, Maine,	Sep. 12,
Pump, common water. J. W. Hillias, Baltimore, Md.	Sep. 16,
Planting and dropping all kinds of seed and preparing them, &c. Zeberia Lane, Harrisburg, N. Y.	Sep. 21,
Perpetual polished water proof boots and shoes. I. Ryner, I. Haskins, S. Knower, Boston, Mass.	Sep. 23,
Power, application of, to or on ma. R. Mitchel, Cynthiana, Ky.	Oct. 10,
Plane, inclined, for raising & lowering boats on canals. E. Morris, Bloomfield township, N. J.	Oct. 13,
Power, hydraulic. Z. & A. Parker, Cohorton co. Ohio,	Oct. 19,
Plough. R. Reeder, & S. D. Ashley, Madisonville, Ohio,	Oct. 21,
Plough. Timothy Miller, Pittsburg, Pa.	Oct. 23,
Pressing cheese, tobacco, apples for cider, hay, paper, &c. Richard McOmber, Galway, N. York,	Oct. 27,
Perambulator. Anthony Gifford, West Point, Mass.	Oct. 27,
Pumps for ships. John B. Pell, New York,	Oct. 31,
Plate, stereotype. Nathan Hale, Boston, Mass.	Nov. 20
Pump buckets. David Coon, Mendon, N. Y.	Nov. 28,
Paddle wheels. Jacob Perkins, London, England,	Nov. 30,
Propelling vessels by means of inside lever propelling wheels. J. J. Giraud, Baltimore, Md.	Dec. 1,
Press, called Bramah's hydrostatic press. D. H. Mason & M. W. Baldwin, Philadelphia, Pa.	Dec. 2,
Percussion primers for cannon. Lt. W. H. Bell, Fortress Monroe,	Dec. 8,
Power of tide water, app. to ma. for any required use. Henry M. Western, New York,	Dec. 23,
Paring apples. R. & A. Mosher, Galway, New York,	Dec. 28,
Power machine. W. Hosford, jr. Washington township, O.	Dec. 31,

## R.

Rope reeding, ma. in the. A. Boring & W. W. Jones, Thornville, Perry co. O.	May 5, 1828.
Raising ships, &c. out of water. J. H. Greene, Providence, R. I.	June 26,
Reaping and thrashing grain. Sam. Lane, Hallowell, Maine,	Aug. 8,
Resin for heating ovens, &c. app of. R. L. Wood, Philadelphia,	Oct. 10,
Rags, ma. for cutting. M. Y. Beach, Springfield, Mass.	Oct. 11,
Railway carriages, impt. in. R. Winans, Vernon, Sussex co. N. J.	Oct. 11,
Rack and pinion, in the double. J. Woodhull, Livingston co. N. Y.	Nov. 12,
Railway carriage, impt. in the. W. Howard, Baltimore, Md.	Nov. 22,
Rags, in the ma. for cleaning. W. Debit, East Hartford, Ct.	Jan. 13, 1829,
Rags, in the mode of whitening for paper. John W. Cooper, Washington township, Franklin co. Penn.	Feb. 7,
Reeding or fluting, ma. for. John January, Greenville, Ky.	Mar. 3,
Roller or wheel roads, and carr's for. J. Gardiner, Washington, D. C.	Mar 16,
Railway carriages, impt. in. Isaac Knight, Baltimore, Md.	Mar. 18,
Razor straps, impt. in. Gooding Holloway, Chester co. Ohio,	April 3,
Rice mill, impt. on R. King's. J. Ravenel, Charleston, S. C.	April 3,
Rail road carriages, impt. in. John L. Sullivan, Philadelphia, Pa.	April 6,
Rail road carriages, friction wheels for inside the axle. Henry B. Chew, Baltimore, Md.	April 9,
Rail roads, and carriages in. J. Wright, Lancaster co. Penn.	April 17,
Railway carriages, in the cylindrical. P. Fleming, Albany, N. Y.	May 4,
Rail roads and rail road carriages. Isaac Knight, Baltimore, Md.	June 11,
Rail roads, for a carriage to turn out and in on a railway. James Wright, Columbia, Pa.	June 11,
Rifle, for sharpening scythes. B. Swift, Washington, N. Y.	June 11,
Rotary steam engine. D. B. Lee & S. Stewart, Philadelphia, Pa.	June 11,
Ropes and cords, making from raw material. Stephen Hibbs, 2d, Glastonberry, Ct.	June 11,
Rifles, muskets, &c. magazine to contain several charges. James Miller, Brighton, N. Y.	June 11,
Rice, coffee, clover seed, &c. hulling and cleaning. Zenos Bronson, Jasper co. Geo.	July 7,
Rotary motion, app. of steam to produce it. Joseph Mount, Nashville, Tenn.	July 16.

- Raising water for prop. ma. &c. I. Mead & M. Kitchell, Lebanon, O. July 27, 1829.  
 Raising water A. E. Lazelle & D. Bloodgood, Poughkeepsie, N. Y. July 27,  
 Roofs for buildings, mode of mak. N. Adams, Marlborough, N. Y. July 29,  
 Ruler, mathematical, for cut. garments. Otis Madison, Troy, N. Y. Aug. 18,  
 Raising water by atmospheric pres. S. McCune, Wilmington, O. Aug. 25,  
 Railway carriage or car, self-adapting. J. Wright, Columbia, Pa. Sep. 10,  
 River dams, for the easy passage of fish. P. Magrath, Philadelphia, Oct. 10,  
 Raising vessels out of water by a screw dock. Elisha Turner, Ro-  
 chester, N. Y. - - - - - Oct. 10,  
 Raising and lowering boats on canals, by an inclined plane. E. Mor-  
 ris, Bloomfield township, N. J. - - - - - Oct. 13,  
 Roller, inking app. inking types, &c. W. I. Stone, Washing. D. C. Oct. 20,  
 Rail road carriages, reduction of friction. H. Finlay, Balt. Md. Oct. 27,  
 Reflectors for furnaces or fire places. J. Hurd, jr. Boston, Mass. Nov. 10,  
 Reflectors for ovens. J. Hurd, jr. Boston, Mass. - - - - - Nov. 10,  
 Rectifying and purifying liquors. R. Mauck, Gallipolis, Ohio, Dec. 7,  
 Rail road carriages. J. I. Reekers, Baltimore, Md. - - - - - Dec. 11,  
 Roping and spin. cotton and wool. J. B. Wheeler, Galway, N. Y. Dec. 30,

## S.

- Shearing cloth, in the ma. for. J. & G. C. Kellogg, N. Hartford, Ct. Apr. 7, 1828.  
 Spinning cotton, in the ma. for. A. Critchfield, Union town's p O. Apr. 24,  
 Saw mills, impt. in. Isaiah Call, Woodstock, Vermont, - - - - - April 28,  
 Saddle, impt. in the. A. Marshall, Pikeland town's p, chest. co. Pa. Apr. 30,  
 Sawing hoops, basket stuff, &c. ma. for. P. Slayton, Lock-  
 port, New York, - - - - - May 1,  
 Stove, impt. in the cooking, (one stove incloses another) A. Fish-  
 er, Claremont, Sullivan co. N. H. - - - - - May 9,  
 Spinning wool, and cotton, from the roll, ma. for. W. R. McCall,  
 Vincennes, Indiana, - - - - - May 12,  
 Shingles, ma. for mak. S. Howe & C. Chaffin, Holden, Mass. May 22,  
 Saw frame, for sawing veneers, &c. B. Crehore, Milton, Mass. May 22,  
 Screws, for cutting and forming wooden. S. Treadwell, Weston,  
 Fairfield co. Conn. - - - - - May 22,  
 Sugar, in the oil boiler, for mak. W. A. Archbald, N. York, May 29,  
 Sugar, in the oil, double boiler. W. A. Archbald, New York, May 29,  
 Sugar, in the filtering apparatus. W. A. Archbald, N. York, May 29,  
 Stove, in the Franklin or open. W. Cowan, Watertown, N. Y. June 16,  
 Saw frame, in the armed. S. Sperry, Nashville, Tenn. - - - - - June 18,  
 Setting stills, boilers, &c. J. Miller & B. Clemmons, Clemmonsville,  
 N. Carolina, - - - - - June 24,  
 Spinning cotton, in the ma. for. C. Walker, Chester co. Penn. June 26,  
 Spinner, in the domestic. E. Penny, Adams, Jefferson co. N. Y. June 27,  
 Steam engines, connecting pipes, &c. Gideon Freeborn, N. Y. July 8,  
 Staves, ma. for dressing and jointing. Levi Benton, Hanover,  
 Chatague co. New York, - - - - - July 12,  
 Stages, &c. cloth for the boots. Peter Laporte, Augusta, Virginia, July 28,  
 Sawing, impt. in. Phineas Slayton, Lockport, N. York, - - - - - July 31,  
 Saw mill, curvilinear. David Baker, Ipswich, Mass. - - - - - Aug. 7,  
 Sawing hoops, &c. machine for. I. Price, jr. Lockport, N. York, Aug. 19,  
 Steam generator boiler. L. M. Richards, Chagrin River, Ohio, Aug. 21,  
 Shingles, ma. for making. Danforth Wilder, Rome, New-York, Aug. 25,  
 Saw, circular. Lewis R. Bump, Massachusetts, - - - - - Aug. 29,  
 Saw circular, for sawing clapboard. John Kidder, Gorham, Maine, Oct. 11,  
 Steam engine, rotary, Sillman Blake, Providence, Rhode Island, Oct. 11,  
 Spinning & roping cotton, ma. for. J. W. Wheeler, Galway, N. Y. Oct. 11,  
 Stereotype blocks, impt. in. Wm. Dickinson, Batavia, New-York, Oct. 11,  
 Steam used in extracting tannin. Wm. Coburn, Gardiner, Maine, Nov. 1,  
 Slates and slate pencils, ma. for making. Tho. Synnington, Balt. Nov. 17,  
 Spinning and twisting, impt. in. John Thorpe, Providence, R. I. Nov. 20,  
 Spinning or filling & stock twisted yarn. Do. do. Nov. 20,  
 Screws, in the machine for making. Lemuel W. Wright, London, Dec. 6,  
 Snatch block, impt. in the. Jas. Evans, Charlestown, Mass. Dec. 6,  
 Shelling corn, ma. for. Tho. I. Dean, Cortland county, N. York, Dec. 8,  
 Sausages, ma. for cutting and stuffing. Samuel Fahrney, Washing-  
 ton county, Maryland. - - - - - Dec. 9,

Sawing feloes for wheels, ma. for. Samuel Fahrney, Washington county, Maryland,	Dec. 9, 1823.
Smut machine, impt. in. Townsend Carpenter, Elmira cy. N. Y.	Dec. 21,
Scythe, sheath, impt. in common. Silas Lanson, Sterling Mass.	Dec. 29,
Spinning machine, called the ring grove spinner. John Thorp, Providence, Rhode Island,	Dec. 31,
Salt, in the manufacture of. Jean A. Teissier, Boston, Mass.	Jan. 13. 1829.
Spinning wool & cotton, machine for. Nathaniel Harris, Fairfield county, Ohio,	Jan. 21,
Spinner, in the cap. John Thorp, Providence, Rhode Island,	Jan. 23,
Strap for razors, &c. impt. in the. John W. Osborne, Vigo county, Indiana,	Jan. 24,
Sausage meat, ma. for cutting. E. Wade, Elizabeth Town, N. J.	Jan. 26,
Sugar, ma. for breaking. W. G. Sterling, Bridgeport, Conn.	Jan. 28,
Spinning wool, in the mode of. Wm. B. Taber, Canton, Mass.	Jan. 30,
Staves, machine for dressing the inside of. Chs. B. Goodrich, Rutland, New-York,	Feb 3,
Staves, machine for dressing the outside of. Chs. B. Goodrich, Rutland, New-York,	Feb. 4,
Spinning fibrous substances, in. John Goulding, Dedham, Mass.	Feb. 16,
Do.	Do.
Swing staying, in. Elijah Drury, Washington, Massachusetts,	Feb. 16,
Saw, in the circular revolving. Tyler Howe, Worcester cy. Mass.	Feb. 19,
Sharpening knives, and other edged tools. Walter Hunt, N. Y.	Feb. 19,
Ship, or vessels' motion, ma. for ascertaining. James D. Woodside, Washington, District of Columbia,	March 17,
Sharpening knives, &c. ma. for. Isaiah Jennings, New-York,	March 17,
Stove, called the economical cooking. John I. Hess, Phila.	March 19,
Salt, in the pans for boiling. Wm. Blockson and I. T. Fracker, Zanesville, Ohio,	March 23,
Spikes, in the pattern for moulding, &c. Joshua and Chs. Sewall, Bath, Maine,	March 25,
Steering ships, in the ma. for. M. Pearson, Newburyport, Mass.	April 1,
Sawing logs, &c. machine for. Peter Tomlinson, Derby, Conn.	April 3,
Sawing down trees, &c. ma. for. D. Peirce, Poughkeepsie, N. Y.	April 3,
Spinner, in the can. John Thorp, Providence, Rhode Island,	April 3,
Spectacles with spiral. Samuel Babcock, Middletown, Connt.	April 3,
Steam engines, &c. double rack and twin wheels applied to. Joseph Woodhull, Rochester, New-York,	April 6,
Saw mills, impt. in. George Brown, Deerfield, Oneida cy. N. Y.	April 7,
Steam engine, curved tube rotary, Elijah Bryan, New-York,	April 8,
Spinning, in the self operating mule for. Ira and Aden Gay, Dunstable, N. H.	April 10,
Salt in making. (re-issued, bearing former date.) Jean A. Teissier, Boston, Massachusetts,	April 11,
Salt, in the mode of making. Henry I. Tudor, Boston, Mass.	April 29,
Sifting, in the ma. for. John Nichols, Boston, Massachusetts,	April, 29,
Spades & shovels, making. Harlow Risley, Glastonbury, Conn.	May 1,
Sawing, impt. in the art of. Israel Johnson jr. New-York,	May 7,
Stove, cooking, impt. in. Allen and I. Barnett, Louisville, Ken.	June 11,
Steam engine, hydraulic. John Catlin, Cincinnati, Ohio,	June 11,
Sharpening scythes, with a rifle. Beriah Swift, Washington, N. Y.	June 11,
Steam engine, rotary. D. B. Lee and S. Stewart, Phila. Penn.	June 11,
Steam generating, in the use of flat boilers. D. Fanshaw and H. Hanks, New-York,	June 11,
Stoves. Wm. Naylor, New-York,	June 11,
Shelling corn. John S. Gardiner, Canandaigua, New-York,	June 11,
Salt, manufacturing by the application of scape heat from steam engine. Alexander Brown, Salina, New-York,	June 11,
Spinner, running cap. John Thorpe, Providence, R. I.	June 11,
Spade, pronged. Wm. H. Horton, Middletown, Connecticut,	June 11,
Stove, cooking, for burning Lehigh and other coal. Cornelius Schermerhorn, New-York,	June 11,
Steam boilers. F. Coffin and C. K. Beach, Boston, Mass.	June 29,
Securing window shutters. F. Bartholomew, New-York,	June 30,
Sawing, boring, and mortising. Reu. Medley, Bloomfield, Tenn.	July 7,



Splints, app. to fractured limbs. D. S. C. H. Smith, Sutton, Mass.	July 7, 1829.
Ships'-pumps. Manuel Francis, Boston, Massachusetts,	July 7,
Straps and punching ma. Charles Angel, Philadelphia, Penn.	July 15,
Steam, application of, to produce rotary motion. Jos. Mount, Nashville, Tennessee,	July, 16,
Stove cooking. E. E. Bennett, Sandy Hill, New-York,	July 17,
Spring seats for wagons. S. Reynolds, Northumberland, N. Y.	July 17,
Screws and nails, ma. for making wrought. Stephen I. Gould, Litchfield, Connecticut,	July 25,
Steam engine, for avoiding the dead point of a crank. Valentine Carter, George Town, District of Columbia,	Aug. 3.
Stove, double furnace cooking. Josiah Richards, Claremont, N. H.	Aug. 5,
Stiffening for hats. Jonathan D. Wilson, New-York,	Aug. 6,
Steam rise and application. T. Packard and I. E. Strong, Granville, New-York,	Aug. 7,
Shears, for shearing cloth. Samuel A. Britt, Cazenovia, N. Y.	Aug. 10,
Spinner, American. Warren Allen, New-Haven, New-York,	Aug. 15,
Sharpenner, knife. Wm. I. Dunn, New-York,	Aug. 18,
Stove, air furnace oven. Oliver Davidson, Johnstown, New-York,	Aug. 25,
Stove, furnace cooking. Geo. Richards, Providence, R. I.	Sep. 9,
Sugar, manufact. from cane juice. Eb. A. Lester, Boston, Mass.	Sep. 10,
Screw, serpentine auger. Geo. Shetter, York, Pa.	Sep. 10,
Straw, manufactured into fine white paper. Louis Bomeisler, Philadelphia, Pennsylvania,	Sep. 10,
Saw, veneering. Amos F. Smith, Salem, Massachusetts,	Sep. 10,
Seeds, preparing for planting, &c. Zebina Lane, Harrisburg, N. Y.	Sep. 21,
Shingle, mill for sawing. Richard McOmber, Galway, New-York,	Oct. 10,
Stock, composition hinge. Gardner R. Sillibridge, New-York,	Oct. 10,
Screw dock. Elisha Turner, Rochester, New-York,	Oct. 10,
Spinning cotton, silk flax, &c. G. Addison and S. H. Stevens, N. Y.	Oct. 10,
Stocks, bitt, of composition. Augustus Phelps, Marlboro, Conn.	Oct. 10,
Shingle machine. Joel Barnes, Cornwall Bridge, Connecticut,	Oct. 10,
Saddle tree. Math. Haldeman, Trapp, Pennsylvania,	Oct. 12,
Saw setter, application of a gauge. Ira Hatch, Westford, Vermont,	Oct. 12,
Steam engine, supplying boilers by a revolving valve. Elam Young, Tate Township, Ohio,	Oct. 12,
Saws, straining and hanging. Levi Chapin, Walpole, N. H.	Oct. 13,
Scalding and knapping hats. Daniel Baldwin, Ithaca, New-York,	Oct. 15,
Saw mill, floating. John C. Ely, New-York,	Oct. 21,
Steam engine. Mellen Battle, Albany, New-York,	Nov. 6,
Stoves for culinary purposes. Joseph Hurd jr. Boston, Mass.	Nov. 10,
Spinning wool. John Orndorff, Russelville, Kentucky,	Nov. 10,
Spinning cotton, throstle for. Samuel Blydenburgh, New-York,	Nov. 10,
Shingles, making by machinery at one operation. Simeon Wood, Holden, Mass.	Nov. 10,
Stove funnel, tin ware and copper ware. Oliver Hubbard, Claremont, N. Hamp.	Nov. 12,
Shingles, riving, drawing, jointing, and squaring the same. Parke Jones, James City, Va.	Nov. 12,
Stereotype plate. Nathan Hale, Boston, Mass.	Nov. 20,
Steel carbonated from bars of wrought iron. Stephen Pope, N-Y	Nov. 20,
Sculling wheels, for propelling boats. Benjamin M. Smith, Rochester, New York,	Nov. 20,
Spinning or throwing silk, cotton, wool, &c. on the throstle. Henry Ruggles, New-York,	Nov. 24,
Sign and guide boards. Stanley Carter, Raynham, Mass.	Nov. 25,
Spring, for shutting doors, &c. Lyuus Burwell, Berlin, Conn.	Nov. 25,
Scine, nets, or fence of wire, cords, or twine. C. Hall, Meriden, Ct.	Nov. 27,
Shearing the knap of woollen cloth. Merrit Hurd, Augusta co. N-Y	Dec. 7,
Shingle cutter. Joel H. Johnson, Fredonia, New-York,	Dec. 8,
Scraper, metallic, for excavating earth under water. Oliver Teal, Salina, New-York,	Dec. 8,
Steaming staves, for making barrels, casks, hogsheads, &c. Jonah Thompson, Philadelphia,	Dec. 30.
Spinning and roping cotton and wool. Joseph B. Wheeler, Galway, New-York,	Dec. 30,

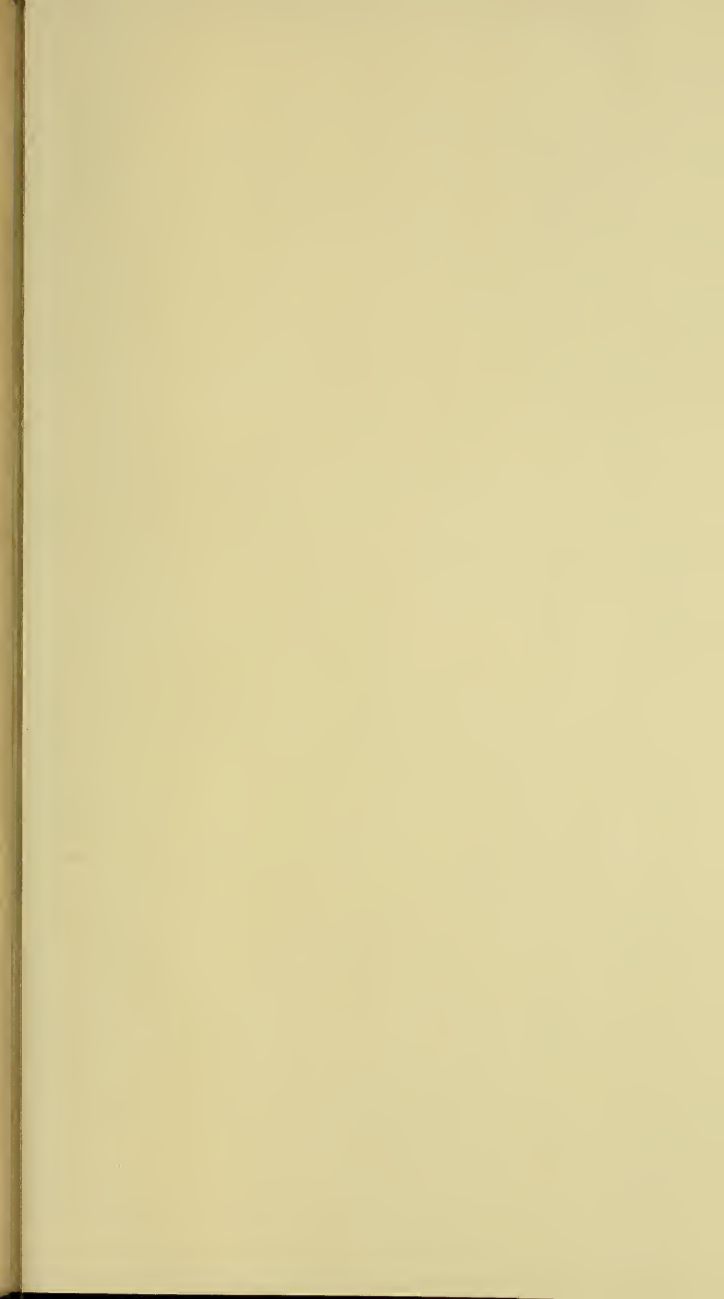


Thrashing ma. impt. in the.	John H. Bennet, New York,	April 10, 1828.
Tanning, impt. in the reel for.	Wm. Brown, Frankfort, Philad'a.	April 17,
Thrashing ma. impt. in.	Calvin Emmons, New York,	April 17,
Tanning hides into leather.	E. Shove & T. Hunt, Locke, Cayu- ga co. New York,	May 13,
Thrashing ma. in the.	N. Case, North Granville, Ohio,	May 23,
Thrash. grain from the straw of rice, &c.	A. Nourse, Beaufort, S. C.	July 19,
Transport and conveyance.	John I. Reekers, Baltimore, Md.	July 21,
Thrashing machine.	Matthew Barney, Nantucket, Mass.	Aug. 5,
Tables, breakfast and dining.	Peter Barker, Worthington, O.	Aug. 6,
Types, casting printers'.	W. M. Johnson, New York,	Aug. 21,
Thrashing ma. American.	I. W. Post & I. Bryan, New Balt. Va.	Oct. 10,
Types, in the ma. for casting printing.	G. F. Peterson, N. York,	Oct. 13,
Thrashing ma. impt. in the.	S. S. Allen, Skaneateles, N. York,	Nov. 1,
Tobacco, tables used in drying cut.	G. Campbell, Schenectady, N. Y.	Jan. 7, 1829.
Tow lines, for canal boats.	J. Sandiford, Weston, Fairfield co. Ct.	Feb. 16,
Tan yards and tanning, impt. in.	L. B. Johnson, Tompkinsville, Ky.	Mar. 3,
Temples, in the rotary.	Ira Draper, Sangus, Mass.	April 1,
Twine and small cordage, ma. for mak.	A. Pond, Petersburg, Va.	April 21,
Tenons and small veneers, ma. for slitting.	John McClintic, Chambersburg, Pa.	April 21,
Thrashing machine.	George Fuller, Gardiner, Maine,	June 11,
Thrash. and winnow. grain.	E. P. Davis & W. Carey, Riga, N. Y.	June 11,
Thrashing machine.	George Fuller, Gardner, Maine,	June 11,
Topical blood letting and drawing milk, called	Hacmaqataetiphoous, D. Houghtaling & A. Mency, Watervleits, N. Y.	June 11,
Twister, self-supplying.	Walter Hunt, New York,	June 11,
Tooth extractor, parallel moving perpendicular.	E. Bryan, N. Y.	July 13,
Typographer, a ma. for printing.	W. A. Burt, Detroit, M. T.	July 23,
Thrashing machine.	Calvin Emmons, New York,	July 27,
Tooth ache, rheumatic pains, &c. compound for curing.	T. White, St. Clairsville, Ohio,	July 29,
Tooth ache, rheumatic specific, for the cure of.	Samuel Penning- ton, Mt. Pleasant, Ohio,	July 30,
Thrashing machine.	Enoch A. Harman, Upper Wakefield, O.	Aug. 5,
Trip hammer, portable, for forging iron.	S. Kilburn, Sterling, Ms.	Aug. 18,
Threshing wheat, rye, oats, &c.	J. S. Wood, Petersburg, Va.	Sep. 10,
Trimnings for harness, &c.	W. S. Robinson, Taunton, Mass.	Sep. 22,
Tree of saddles.	Matthias Haldeman, Trapp, Pa.	Oct. 12,
Tightening doors and windows.	S. Hayward, Plainfield, Mass.	Oct. 17,
Trusses, (originally patented July, 1817.)	A. G. Hull, N. York,	Oct. 28,
Throstle for spinning cotton.	Samuel Blydenburg, N. York,	Nov. 10,
Tin ware, copper ware, stove funnel manufac.	Oliver Hubbard, Claremont, N. H.	Nov. 12,
Throstle frame, for throwing silk, cotton, flax, wool, &c.	Henry Ruggles, New York,	Nov. 24,
Thrashing machine.	Thos. G. Owen, Baltimore, Md.	Nov. 26,
Turning lathe.	Elijah Putnam, Gardner, Mass.	Dec. 9,
Thrashing grain.	Wm. Barnes, Brookhaven, New York,	Dec. 14,
Tide water power, connected with the principles of bouyancy and gravity for applying power to ma.	H. M. Weston, N. York,	Dec. 23,
Thrashing machine.	John Haws, Hudson, New York,	Dec. 31,
Vice, called the socket.	Luther Hemenway, Sullivan, N. H.	Sep. 4, 1828.
Variator, for measuring for garments.	L. Peterson, Bath, Maine,	Jan. 9, 1829.
Veneers, ma. for cutting.	Caleb B. Burnap, Belfast, Maine,	May 1,
Vaults and privies, erection of.	Thos. Rundle, Boston, Mass.	Sep. 10,
Veneering saw.	Amos F. Smith, Salem, Mass.	Sep. 10,
Veneers and pannels, ma. for cutting, &c.	I. White & P. Quinby, Belfast, Maine,	Sep. 12,
Valve, revolving, for supplying the boilers of a steam engine.	Elam Young, Tate township,	Oct. 10.
Vessels, propelling by means of inside lever propelling wheels.	John J. Giraud, Baltimore, Md.	Dec. 1.

- Washing ma., impt. in Leavitt's. Eli M. Gibbs, Chenango, N. Y. May 1, 1828.
- Washing machine, impt. in the. Moses P. Parker, Lowville, N-Y May 1,
- Water wheels, with moveable paddles and calculated for streams  
without dams. John Bell, Sycamore Township, Ohio, May 9,
- Washing machine, in the. George Hancock, Maysville, Mason, K. May 24,
- Water wheels, for mills, in. Abel Greenleaf, Mexico, Oswego, N-Y June 5,
- Water proof, making leather. Abm. Straub, Milton, Conn. June 30,
- Ways, method of constructing. Amasa Miller, New London, Ct. July 7,
- Wind wheel, impt. in the. Abner Murray, Athens, Penn. July 8,
- Window blinds, &c. spring fastenings for. Holly Seely, Otsego, N-Y July 14,
- Washer, rotary, for washing clothes. Calvin Post, Cayuga, N-Y July 15,
- Washing machine. Simon Willard, jr. Cincinnati, Ohio, Aug. 2,
- Washing and pressing clothes, ma. for. H. Averill, Richland, N.Y Aug. 14,
- Wind mill, horizontal. Walter Ingalls, N. H. Aug. 19,
- Water, mode of raising from wells, &c. S. Smith, Mendon, Mon-  
roe co. New York, Aug. 20,
- Wagons, &c. self-regulating brake. R. Turner, Worcester, Ms. Aug. 29,
- Washing machine. Jonathan R. Davis, Hartland, New-York, Sept. 2,
- Washing machine. Joseph Hathaway and Richard Hathaway, 1st.  
of Poultney, 2d. of Canandaigua, New-York, Sept. 5,
- Washing and churning machine. John Grout, Caroline, N-Y. Oct. 10,
- Window blinds, impt. in. John Parkerson, Boston, Oct. 11,
- Water, to flutter wheels, application of. James Stewart, Robert-  
son co. Tenn. Oct. 24,
- Wire harness, for weaving in. Ezra Brown, Cazenovia, N-York, Oct. 30,
- Washing, filling, and corking bottles. Steen Anderson Bill, N-Y. Nov. 8,
- Window sash blinds, &c. making. Jed. Richards, jr. Elbridge,  
Onondaga co. New-York, Nov. 12,
- Whitening Leghorn, straw, gimp, &c. Henrietta Cooper, Frank-  
lin co. Penn. Nov. 12,
- Windlass, for weighing anchor. Saml. Nicholson, Boston, Mass. Dec. 1,
- White lead, &c. in the manufacture of. Edward Clark, N-York, Dec. 4,
- Water wheel, in the inclined. Orpheus Thompson, Jerico, Vt. Dec. 6,
- Water power, increasing. S. L. Holmes, Westchester co. N-Y. Dec. 8,
- Washing machine, in the. Ebenezer Blodget, New-York, Dec. 10,
- Water wheel, in the hinged. M. D. Brownson, Mason co. Va. Dec. 19,
- Washing machine, in the. S. A. Brownson, Montrose, Pa. Dec. 26,
- Wagons, in the mode of locking. John M. Davidson, Brown-  
ville, Penn. Dec. 31,
- White lead, mode of preparing without grinding. John Burney,  
New-Haven, Ohio, Jan. 1, 1829.
- Washing machine, in the. Reuben Mosher, Galway, Saratoga  
county, New-York, Jan. 8,
- Water wheels, letting water on. John Houghton, Green, Geo. Jan. 13,
- Washing machine, in the. Amos Larcom, Albany co. New-York, Jan. 16,
- Water and air proof cement. John I. Howe, New-York, Jan. 31,
- Water from wells, &c. mode of raising. S. Smith, Mendon, N-Y. Mar. 17,
- Washing machine. John Taylor, Dunstable, New-Hamp. April 1,
- Wool, double doffer for sorting and carding. John Boynton, S.  
Coventry, Conn. April 11,
- Water wheels, for steam boats, etc. Paul Boynton, Ogdensburg,  
St. Lawrence co. New-York, April 21,
- Washing machine. Stephen Hinds, Susquehanna co. N-York, April 25,
- Wheel and rest, impt. in the. Israel Johnson, jr. Essex co. N-Y. May 1,
- Washing and churning machine. Freedus Reed, Pike co. Penn. June 11,
- Winnowing and thrashing grain. E. P. Davis and William Carey,  
Riga, New-York, June 11,
- Wool, or other fibrous material, mode of manufacturing. John  
Goulding, Dedham, Mass. June 11,
- Washer, Complete. Ephraim Wheeler, Galway, New-York, June 11,
- Wheels, water, and paddle. Benjamin Howard, Worcester, Ms. June 11,
- Weight of goods and other loading of boats, ascertaining. Thos.  
Cahoon, Troy, New-York, June 18,
- Windlass, power. William Pennell, Brunswick, Maine, June 29,
- Window shutters, securing. Francis Bartholomew, New-York. June 30,

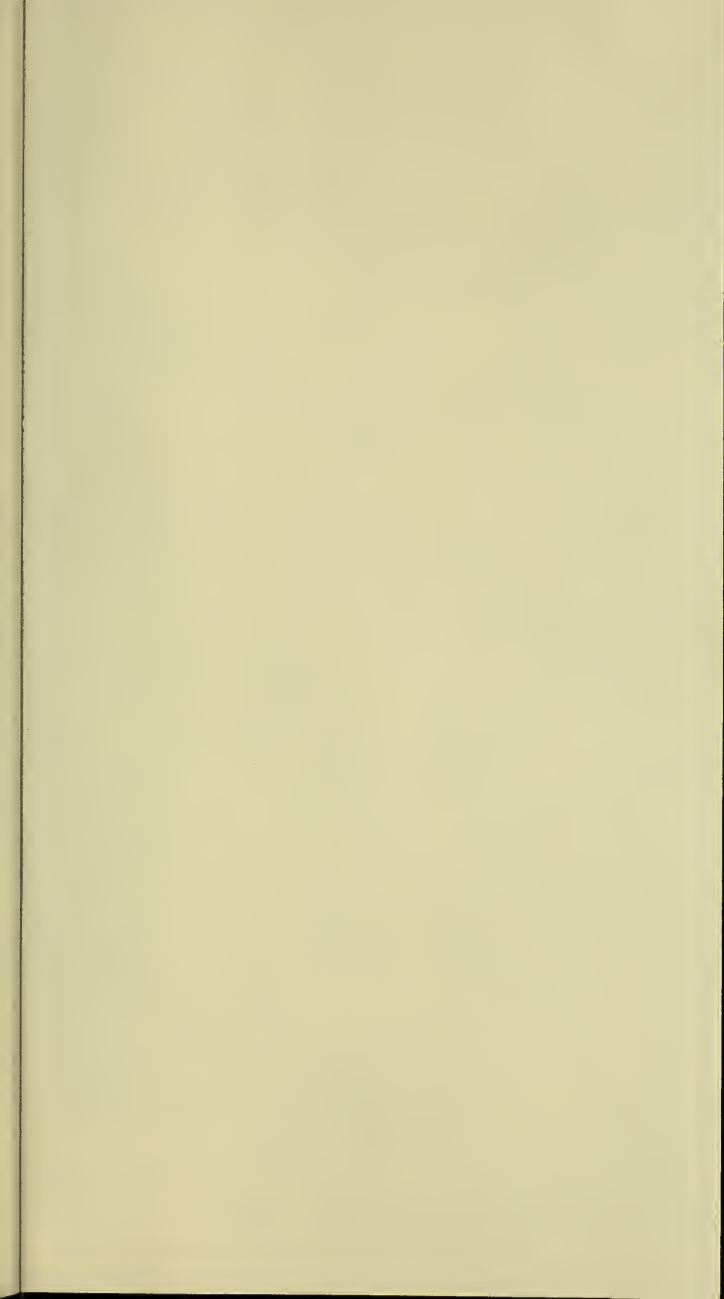
Water, purifying. George B. White, New-York,	July 7, 1829
Wheel, current and tide. Asa Madison, Detroit, Michigan Ter.	July 10,
Washing and churning. Joel B. Pratt, Milo, New-York,	July 14,
Webb of cloth, forming of wool without spinning or weaving. John Arnold, Norwalk, Conn.	July 15,
Wheels, construction and application of, to carriages, &c. Geo. D. Bridgeman, New-Haven, Conn.	July 16,
Wagons' spring seats. Schuyler Reynolds, Northumberland, N-Y	July 17,
Wool, mode of manufacturing. John Goulding, Dedham, Mass.	July 21,
Water, raising, called an atmospheric steam engine. I. Mead, and M. Kitchell, Lebanon, Ohio,	July 27,
Water, machine for raising. A. E. Lazelle and D. Bloodgood, Poughkeepsie, New-York,	July 27,
Wheels, rims, or felloes, making by steaming and bending. Merritt Blakeslee, Canaan, Conn.	July 29,
Washing machine. William E. Arnold, Haddam, Conn.	Aug. 3,
Wagon, manuring. James Bowman, Coosawatches, S. C.	Aug. 12,
Wheat fan. Geo. Hoffman, Fredericktown, Md.	Aug. 21,
Water, raising, by atmospheric pressure. Samuel McCune, Wil- mington, Ohio,	Aug. 25,
Washing ma. and heating water for the same. Enos D. Cherry, Auburn, N. Y.	Sept. 10,
Washing alluvial earth, clay and soft ores, separating gold, &c. William H. Folger, Charlotte, N. C.	Sept. 10,
Washing machine. George E. Stoking, Aurelius,	Sept. 10,
Water wheel applied to the current of a river to give motion, &c. Joseph Wallace, Hartford, Kentucky,	Sept. 11,
Water, drawing from forebays and discharging it on water wheels. J. P. Espy and Andrew Young, Philadelphia, Penn.	Sept. 11,
Wagon tire, hoops, bands, &c. binding. J. Butler, Cobleskill, N-Y	Sept. 24,
"Washer, Queen's," for washing and scouring cloths. Pinkham Mosher, Ballston Spa, New-York,	Oct. 10,
Washer and churn. Geo. B. Gibbs, Le Raysville, Penn.	Oct. 10,
Window and doors' tightening. Stephen Haywood, Plainfield, Ms.	Oct. 17,
Washing machine. H. Shively, R. S. McEwen and Jno. Linds- ley, Fredericksburg, Va.	Oct. 21,
Winding up clocks. Richard Ward, Waterbury, Conn.	Nov. 5,
Washing machine. Eleazer Berry, New-York.	Nov. 12,
Washing and separating gold, &c. W. H. Folger, Charlotte, N. C.	Nov. 13,
Washing machine. Chs. D. Wright, E. Haddam, Conn.	Nov. 19,
Washing machine. Roswell Brainerd, Haddam, Conn.	Nov. 23,
Washing, scouring, and fulling clothes, making carpeting of wool, etc. Harvey Slayton, Lockport, N. Y.	Nov. 25,
Wheels, paddle. Jacob Perkins, London, England,	Nov. 30,
Water wheel, horizontal and spiral and grist mill. Alexander Temple, Brookfield, Ohio,	Dec. 11,
Washing and boiling all kinds of wearing apparel, etc. I. T. W. Dennis, Paintville, Ohio,	Dec. 16,
Weaving narrow stuff, such as ribbons, webbings, tapes, ferrets, girthings, chaise lace, fringes, &c. without the use of shut- tles. John Thorp, Providence, R. Island,	Dec. 22,
Zig zag screw in lieu of the crank. Joseph Woodhull, New-York,	Dec. 31,

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Treatment Date: Sept. 2003

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