"The Consumption of Paper is the Measure of a People's Culture."

VOLUME VIII.-NO. 29.

NEW YORK, JULY 19, 1879. WHOLE NUMBER 272.

### Trade Topics.

Sizing Paper.

ITS HISTORICAL DEVELOPMENT.

[Translated for The Paper Trade Journal from the report of Dr. C. Wurster.]

[CONTINUED.]
The sizing which contains the most free rosin is the best, and in selecting from the numerous recipes proposed, we shall give preference to that which prescribes the least alkali. Following are the processes pointed out by Müller, Piette and Planche, and which indicate the least proportions of soda.

Here is the exact process as employed by "25 kilos of calcined lime, as pure as possible, are added to 50 kilos of water, the whole well mixed, so as to form a concentrated milk of lime; to this is added 20 kilos (40%) of calcined soda, or 100 kilos of crystals of soda, containing 30 per cent. of carbonate of soda; heat this, being careful to stir until it boils. Sufficient time is given for the deposit of the carbonate of lime, and the clear, caustic soda is poured off, filtering it through a sieve into a copper boiler with a double bottom, heated by am. A quantity of water is added sufficient to make up 250 litres in all: this liquid is heated to the boiling point, and then is added, very slowly, 400 kilos of rosin reduced to the finest powder. After heating from 4 to 6 hours the rosin is entirely dissolved; the soap is drawn off into a vat, where it remains for from 5 to 8 days. During this period the soap, of a pale yellow tint, separates from the lye, which is tinged brown in turn, by the coloring matter of the rosin; this lye is then poured off. The soap is then washed—sometimes with cold water—and it is ready for use. Before applying it, it is dissolved in ten times its weight of water, boiling it for an hour, so as to quite dissolve it; this solution is passed through a No. 80 sieve into another vat, where it is allowed to cool. This solution, to which has been given the name of 'size,' is perfectly white, and in its use produces no scum in the machine. A good sizing is, for 100 kilos of paper, 36 litres of the solution, containing 2.4 kilos of rosin."

In employing carbonate of soda and boiling only from 5 to 8 hours, we have only succeeded in lowering the proportion of soda to 32, or, at best, to 30 kilos per cent. of rosin, while Müller, in his use of caustic soda, would prepare his sizing with 25 kilos of soda, or even less, per 100 kilos of rosin, though he does not mention if he exhausted the precipitate of carbonate of lime and employed the washings to dilute the caustic soda. If he did not do so his precipitate would still bear a recognizable quantity of the 25 kilos of soda used. The result is that the use of caustic roda, which has no merit whatever in making a perfectly soluble soap, should be greatly preferred in the preparation of white sizing.

In these two methods of preparing white size the majority of the coloring matter of the rosin remains in the sizing; therefore, clear rosins should be used for fine papers. However, it is possible to partially clarify the white size. But it cannot be accomplished by a single operation; the first requisite is the formation of an entirely soluble soap, which is treated with sea salt, as scribed above. The purified size is subjected to a strong heat in the boiler, in order to extract excess of water; then 15 to 20 per cent. of clear rosin is added, and the boiling is continued until the rosin soap possesses the qualities of that

which is made with a smaller quantity of soda The white size is superior in every respect to the brown. The preparation of this size costs less, because but half as much rosin in the white form is required to properly size paper as in its brown condition. To precipitate 1 kilo of rosin in the white size, much less salts of aluminum is required than in the brown size. The results obtained by the white size are always reliable, while those of the brown are often very imper fect. All these advantages point distinctly to the use of white sizing. Still, there is one drawback which may obtain in its use. It is quite impossible to prevent a portion, however small of the free rosin in suspension from adhering to the sides or lining of the vessel with which the size comes in contact. The vessel becomes en crusted with a rather compact resinous powder. which if allowed to go into the paper, would manifest itself in small yellowish spots. With a little care and neatness in handling this detriment can be avoided, particularly by again filtering the size before turning it into the pulp.

We have now to consider the precipitation of We have already explained the effect obtained by the salts of aluminum in vegetable size by their acid reaction; they decompose the resinate of soda in free rosin, sulphate of mida nd basic sulphate of aluminum. Aside from the quantity of sulphate of aluminum required preference should be given to sulphate of alum-

to effect this decomposition, enough salt must be added to neutralize, or at least leave a minimum acid reaction in the water which is used, not only in the engine, but to dilute the pulp at the head of the paper machine. The natural alkaline of a liquor depends generally upon the proportion of bicarbonate of lime which it holds in solution; by the action of the sulphate of aluminum the carbonate is decomposed into sulphate of lime, carbonic acid and basic sul-

phate of aluminum. The quantity of sulphate of aluminum requi

site for the sizing, will, consequently, depend: 1. Upon the quantity of alkali employed to dissolve the rosin, or, if the rosin soap has been washed, upon the quantity of alkali which it still contains

2. Upon the quantity of salts of aluminum

required to slightly acidulate the water.

It is quite impossible to calculate exactly the quantity of sulphate of aluminum, but a practical experiment will furnish this desideratum. The salt of aluminum is too feebly represented if the water flowing from the machine is alka-

line; in such case, en should be added to make the water slightly red-den the litmus paper.

To precipitate a rosin soap with alum to a point where the lyes are free from rosin, but hold a slight excess of alum inum (a condition in which will be noticed the formation of resinate of aluminum), experi-

ence has shown the author that only about 331/2 per cent. of alum is required to precipitate 100 parts of rosin to a white

sizing. The reaction which occurs may be expressed by the following chemical equivalent:

6 C20 H20 O2 Na + Al2 (SO4)2 = 6 (C20 H20 O2) Al2+3 Na2 SO4

We require, then, for 6 particles of sylvic acid or of sylvate of soda, I particle of sulphate of aluminum or 1 particle of alum.

The particle weight of sylvic acid is 302; that of sulphate of aluminum, 342.8; of alum 949. Therefore we must have for 63×02-1812 sylvic acid, 949 of alum, or for 100 of rosin, 52.4 of alum. Still we have not used 45.6 of crystallized soda to dissolve 100 of rosin, as called for by the theoretic reaction, but only 32. This gives us the proportion 45.6: 32—52.4: x, or x=36.6. This result does not agree altogether with the figures obtained by actual trial, but this is explained by the unavoidable errors in the methods employed, and the impurity of the materials. Soda crystals not being chemically pure will require a lesser quantity of alum to decompose the

Practical experience has proved that to size properly at least I kilo of alum is required for 1 kilo of rosin. But generally this quantity is much larger. Hofmann says that some factories use 2, 3 and even 5 kilos of alum to 1 kilo of rosin; but it is established beyond question that we must have the conventional kilo of alum for 1 kilo of rosin. This quantity is, therefore, about treble that which is requisite to de compose resinate of soda into resinate of alum

The decomposition of the resinate of aluminum y an excess of alum will therefore obtain by the following equivalent:

> 6C20 H20 O2 Al2+2 Al2 (8O4)2+3H2 O =6C20 H20 O2+3Al2 O (8O4)2;

or the direct decomposition of the resin soap by excess of alum may be formulated:

2C20 H20 O2 Na+2Al2 (8O4)2+H2 O -2C20 Has O2 + Al2 O (SO4)2 + Na2 SO4

The quantity of alum required is directly in roportion to the quantity of alkali contained in the soap; each kilogramme of soda crystals which we use will require the addition of about 2.5 to 3 kilos of alum.

The preparation, properties, and chemical value of the different agents contained in sulphate of aluminum are elaborately treated, especially in some recent works; so that I may pass on without stopping too long over these Alum reacts only by the sulphate of aluminum which it contains. Therefore, a sulphate of aluminum of normal composition, and free from iron, might readily take the place of alum in sizing paper.

Alum contains 36.1 per cent. of sulphate of aluminum; the various products of sulphate of aluminum which are found in commerce con tain from 40 to 57 per cent. of pure sulphate of

The price of the sulphate of aluminum being so much cheaper in these latter than in alum

papers. Many forms of sulphate of aluminum contain free sulphuric acid, though invariably in

very small quantity.

The idea obtains very generally that these traces of free acid are extremely prejudicial to the sizing, and for this reason a large number of manufacturers fear to use sulphate of aluminum, and even first neutralize this product by the addition of soda crystals. For our own part, we find that a faint trace of free acid in the sulphate of aluminum is far from depreciating the quality of this agent; on the contrary, the free cid will assist the sulphate of aluminum, and after the precipitation of the soap; in the paper pulp no trace of free acid can be possible, from the fact that there is sufficient alkali there to form basic salt of aluminum.

We have had no opportunity of determining to what degree the proportion of free acid in the sulphate of aluminum might be increased with-out injury to the size. But the definite settlement of this limit is of great interest to paper manufacturers; for it would allow them to

inum rather than to alum in the sizing of most of the progress made by men in the arts, twin arts they may be called, of printing and of paper-making. Paper mills were starting with the improved and enlarged machinery of that day, and printers were inventing movable cut type of wood and iron. About this time also Peter Shoeffer invented the cast metallic type, which so pleased his employer, Faust, that he gave him his only daughter in marriage, which, no doubt, pleased Peter as well as though he had got his invention patented.

This brings us to the beginning of the sixteenth century, from which time a steady progress in extending and improving both paper-making and printing was made until the middle of the seventeenth century, when it is recorded that the French paper-makers excelled in the art, and sent their product largely to other countries. In 1685, according to Munsell, many refugees went from France to England, among whom were some paper-makers, who are supposed to have greatly improved the manufacture of paper in that country; still the only method of reduc-ing the material to pulp was by the stamping

machines or the huge mortar and pestle. But about the middle of the eighteenth century (1759 Munsell says), the en-gine, or Hollander, was discovered. I say discovered, because it does not seem to have been invented, but simply (Topsy like) discovered at work somewhere in Holland. This was no

substitute for a portion of the sulphate of alum- | doubt a rude, rough machine, fitted only to macerate the rags or other material, reducing them to the fibrous pulp necessary to the manufacture of good paper, but likely it was soon improved by the addition of the now ob-solete curb-washer, whereby it became a wash-

ing as well as a beating engine. The next important step was the invention of the Fourdrinier machine. In 1798 M. Robert was experimenting on his machine to make a ous sheet of paper. 1799 saw him successful, and a patent was procured. 1800, the French Government awarded him 8,000 fr. and his patent for fifteen years. 1801, M. Didot having agreed to pay M. Robert 25,000 fr. for his patent and model, carried it to England and had it patented there. 1802, patents were pro-cured in both France and England for improvenents on this machine. In 1803 Mr. Donkinto whom M. Didot had carried the model procured from M. Robert-produced an automa machine which surprised all who maw it. In 804 the Fourdriniers purchased the patents of Didot and Gamble on this machine, and by their improvements and manufacture, introduced it to manufacturers of paper, hence the machine came to be known by their name. Thus we see that year by year the paper machine was improved and enlarged, and it is safe to say that not a single year has passed since its first conception without adding its quota of improvements to the Fourdrinier, until it stands to-day almost perfect.

The invention of the Fourdrinier machine was followed in 1809 by the invention of the cylinder machine. At the same time many improvements in other branches of paper-making were being made, such as chlorine bleaching, sizing in the engine with vegetable size, while the use of clay and starch was becoming known. Machines also for the purpose of sizing with gelatine or were brought into use animal size In Great Britain writing paper continued to be sized by hand until 1838 or '40, when the Messra Cowan, of Valleyfield. Scotland, introduced the sizing and drying machine now universally used in Britain. The sizing machine had been in use in this country for some years previous to this time, the paper being cut off wet, and dried in the This method is still preferred here; but the movement toward machines for drying animal-sized paper is making progress, and will, no doubt, in time, supersede the loft sys-There is one machine in Scotland, owned by the Cowans, which makes, sizes, dries and cuts into sheets animal-sized papers, and this machine frequently runs the whole week through, night and day, without stop or break. Such is a brief outline of the progress made in the art of paper-making from the time of its invention by the Chinese until now, and it shall be the aim in this series of articles to place upon record the methods of preparing and managing the different materials of which paper is made at the present day.

This year's crop of jute butts is estimated to be 20 per cent. short of the quantity produced last year, while the consumption for the first six months of this year is equal to the whole of last



BY PAPYBUS

We have had, as Q. R. justly remarks, too little of the engines in THE JOURNAL. The same is true of the rag-room and the finishing-room The sorting, cutting, dusting and boiling of the rags and other stock ought to be discussed m than they have been. The finishing-room also deserves more attention than it has received. There the paper is calendered, cut into sheets, plated, lined, repped, ruled and put up in packages ready for the market. But, for some reason or other, machine-tenders have, more readily than others, taken advantage of the columns of THE JOURNAL to give or ask for information, and, in this way, machine-tenders in all parts of this country have conversed with each other and compared nutss as to the best methods of doing their work.

It is largely due to this interchange of opinion and ideas that more progress has been made in the machine room than in other departments of the paper mill, and there is no doubt but that the other branches of paper-making would he equally benefited by a like free discussion.

We have much to learn yet as to the best method of boiling rags, when and how to wash them and to reduce them to half stuff, about bleaching, beating, coloring and sixing. Even machine tending is not yet exhausted, while the finishing room is almost untouched. There is, therefore, a wide field before us for discussion This, however, cannot be covered by any one man, and until those who are actually em-ployed in these rooms take hold of it, and by queries and short letters to THE JOURNAL give their experience and receive the experience of others, the field will be left unexplored and sub-

ject to such complaints as Q. R. makes.

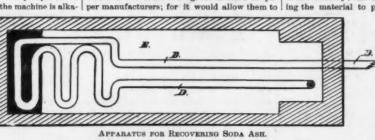
Some object to asking questions or to writing letters for publication in THE JOURNAL. To such I would say that it is not expected that they should give away any special knowledge they may be in possession of. Such knowledge is their own, and they are perfectly right to keep it for their own use and benefit. The queries and letters should refer to the ordinary and general methods of doing their work, and it is quite possible that their experience will be similar to that of others who read, write and talk about their work. It suggests new ideas and new trains of thought, which would not have otherwise occurred to them. Thus in the very act of giving information away, as they may call it, they are actually receiving more than they give.

A correspondent of THE JOURNAL brings up the question of rubber wa leather belts for driving the reels on which the paper is wound. As the paper is continually adding to the size of the reel, it is of course necessary that the reel should run slower in proportion as it become larger. The most common method to accom plish this is to use a loose leather belt with a tightening pulley, having more or less weight on it, thus regulating the tension at which the paper is reeled. It is for this purpose that he oposes to use rubber in place of leather belting, though what benefit he expects to derive from the substitution is not clear, unless it be a saving in the first cost, and, as according to his own statement, his rubber belt is, after only two years' use, half worn out, it is doubtful if there is any economy even in that. On a machine running slow and making light reels, it is pospose, but on a machine making reels from three to ten hundred pounds weight, a rubber belt would be entirely unfit for the purpose. His method of joining the belt is old, rude and barbarous. The Wilson belt hook is the best fastening for this belt, as the ends are butted together and the hook is all on the outside, wing the inside quite smooth. I notice the discussion on the traveling of

wires, felts, &c. I hope that "A." will speedily take "Q." off the tenter hooks and "give him a rest," at the same time settle this question once for all by explaining the true principles of guiding the wire and felts. Let the travail cease and the mouse come forth.

Some of THE JOURNAL correspon cise Whitelaw Reid's prediction of lower prices for print paper, and one of them very perti nently brings the matter home to him, by suggesting the inquiry why, with paper nearly 50 per cent. lower than it was previous to the war, newspapers should sell 33 per cent. higher than they did at that time ? The majority of paper mills are earning barely enough to pay running expenses. They are, in fact, eating up the mill and when it is worn out there is nothing left with which to build another.

The heavy storms reported this week although doing great damage do not appear to have injured the paper mills.



inum an acid of much less cost. [To be continued.]

Note.—For pyroligneous acid, in sixth paragraph of this article in Journal of July 5, read sylvic acid.

#### Improvement in Furnaces for the Recovery of Soda Ash.

This invention consists in the combination with a recovery furnace, of an induction coil of pipes, located in a fire chamber, situated above and along the entire length of the incinerating It is claimed that this arrange does not in any way interfere with the draft of the furnace and does not require any provision for the removal of the pipes, which being situated directly in the flames of the fire, gather no accumulation of soot, and, in addition, the entering fluid is heated to a high degree before reaching the evaporating pans.

In the accompanying illustration D is the induction pipe, entering the fire chamber E, immediately under the chimney, passing along its entire length and returning as shown. It then passes up through the fire chamber E, to the evaporating pans, which are situated directly

### The Art of Paper-Making.

FIRST ARTICLE-INTRODUCTORY.

(Written Specially for THE JOURNAL) "The consumption of paper is the measure of people's culture." This motto is no truer today than it was some thousands of years ago, when men were using sheets of wood, piece of stone, bark of trees, skins of animals and other more or less suitable materials upon which to express their thoughts and preserve their ideas. The consumption of such material was the measure of their culture, and it is mainly by the record thus preserved and handed down to us through many generations that we are enabled to measure the extent of culture to which they attained. The Chinese seem to have been the first to make paper by reducing the material to a fibrous pulp, then forming it into a thin sheet, making it as strong, clean, white, and smooth, as their knowledge and the means at their command would permit. There are traces of this knowledge among them as early as one hundred and fifty years before the Christian era.

It is also stated that the Romans knew some thing of paper-making as early as the third century, but it is not until the tenth, eleventh and twelfth centuries that we have any certain account of paper being made from cotton and next have the positive statement that in 1390 Ulman Strother established a paper mill at Nuremburg, Bavaria, and also that he began to write and publish the first work ever published on paper-making. would, therefore, seem that at that date considerable progress had been made in the art of paper-making. About a hundred years later we read of King Henry VII. of England rewarding the paper mill with a present of 1fs. 8d. (paying his footing, I presume.) This item, however, establishes the fact that there was one paper mill in England at that date, 1408.

It is curious to note, by the way, the equality

The Denison Paper Manufacturing Company Failure.

A meeting of the creditors of the Denison Paper Manufacturing Company, of Mechanic Falls, was held at the Falmouth Hotel, Portland, on Wednesday, July 9, 1879, at two o'clock in the afternoon. The attendance was large and represented a large majority of indebtedness. William P. Frye, of Lewiston, was elected

chairman of the meeting.

A. A. Strout, Esq., of the firm of Strout & Holmes, as counsel for the company, made a full statement of the standing of the company, and produced schedules containing detailed statements of its liabilities and assets.

On motion of E. F. Packard, Esq., of Lewiston, a committee of six were selected by the creditors to make an examination of the affairs of the company, and report at an adjourned meeting the condition of the company and what course is best for the creditors to pursue. The committee consisted of the following gentlemen: Edwin Morey, Boston, importer of chemicals and supplies; James Munroe, West Auburn, manufacturer; E. Storey Smith, New York, attorney of Butterworth & Smalley, Manchester, England; Ira P. Farrington, Portland, President Casco National Bank; Ara Cushman, Auburn, President National Shoe and Leather Bank; Jas. M. Robbins, Lewiston, President Manufacturers' National Bank.

On motion, it was voted to authorize the committee to employ such expert accountants as they find necessary in making their investigations.

Voted to adjourn to meet at the Falmouth Hotel, Portland, Tuesday, July 15, 1879, at two o'clock P. M.

FALMOUTH HOTEL, Tuesday, July 15, 1879. Met according to adjournment. The report of the Committee of Creditors was read by the chairman, Edwin Morey, Esq.

On motion of Mr. J. L. H. Cobb, of Auburn. the report was unanimously accepted by the

Mr. Strout, on behalf of the company, accepted the proposal of the committee as stated in their report.

On motion of James Dempsey, of Lewiston, it was voted that the committee cause their report, together with a summary of the creditors' meeting, to be printed, and forward the same to each

On motion of H. M. Bearce, Esq., of Norway, the meeting adjourned sine die.

W. P. FRYE, Chairman.

REPORT OF COMMITTEE. The undersigned, your committee, to whom, at a meeting of the creditors of the Denison Paper Manufacturing Company, held July 9, 1879, at Portland, was assigned the duty of examining the affairs of said company, its liabilities and assets, and of recommending at an adjourned meeting of the creditors to be holden at the same place on Tuesday, July 15, what course is best for the creditors to pursue, beg leave to submit the following report:

The nature and importance of the investigation in-dicated very clearly the necessity of its being pur-sued at Mechanic Falls, where the property was situated and the business conducted. Your cotherefore met by appointment at Mechanic Falls, on Friday, the 11th inst., and completed their labora Saturday evening of the 12th inst., having in the meantime satisfied themselves, by such method of investigation as seemed requisite and proper, of the entire correctness of the statements and schedules submitted by the company at the general meeting of the creditors, July 9. Every facility was extended by the Messrs Denison, by Mr. Cram, the Treasurer of the Rifle Company, and by Mr. Reed, the clerk, seach and all of them answering all questions pro-pounded by the committee fully and frankly. The principal property of the company consists of the four paper mills, "Eagle," "Star," "Diamond," and "Union," with their requisite machinery, which is in fair but not perfect condition (some repairs, plainly desirable, evidently waited greater prosperplainly desirable, evidently waited greater prosper ity); besides these four mills there are two smaller jty; besides these four mins there are two smaller ones—one used for manufacturing pulps, the other for finishing paper. These, with the water power, may properly be called the "plant." On these, together with the building occupied by the Evans Rifle Company, from time to time, has been expended the num of \$507,000. They are under mortgage to W. H. Parsons & Co. for \$100,000, and are also subject to unpaid taxes of, say, \$2,000 to \$3,000. In ordinary times and under ordinary circumstances the equity of redemption would be a very important element in fixing the percentage which this estate could be made to pay, but the extreme depression in paper manufacturing during the last three years has rendered this class of property almost unsalable, and it is considered extremely doubtful in the minds of your committee whether anything could be realized salable, and for this property over and above the incumbrances

The direct unsecured liab \$260,927.29, to which may be added an approximate sum of say \$55,000, for which the company are re-sponsible as indorsers, and which is fully described and set forth in the schedules submitted by their attorney, Mr. Strout, and by him read at the last meet-ing of the creditors, July 9. These schedules are now in the hands of your committee, and can at any time be examined by any one of the creditors who desires so to do; making a total of \$325,927.29. The personal property of the company consists of:

Aggregating, exclusive of real estate ..... \$46,816.55 Of this amount \$3.140 was in iron work, valuable only in the event of the works being continued. The balance, say \$42,000, was fairly appraised, the prices being what the articles could be purchased for in New York or Boston, but would hardly realize that sum on a forced sale in either city. Besides the amount above named, viz.: \$46,816.55, there are several outside pieces of real estate, including the dwelling house of A. C. Denison and an equity of redemption in the store occupied by I. A. Denison, valued in all at \$14,275, making a total of \$61,091.55, which practically are the available assets of the company, being about 18½ per cent. of the liabilities, provided, as above stated, they would bring the appraised value.

The company have in the hands of W. H. Parsons & Co., of New York, unsold paper valued at \$22,909.80,

of Bowdoin Paper Company's stock, but as the market price of this stock would in no event exceed par and the stock is pledged at about its par value, the transaction as es the form of a liability rather

The Messrs, Denison and Mr. Cram are also owners of the capital stock of the Evans Rifle Company, but its value seems altogether prospective. The tools and machinery, costing over \$100,000, are adapted to make this particular gun; fai ure and closing up the works render this machinery of comparatively little value. At present the works are suspended Your committee have also considered the claim of

W. I. Clark, of New York, for 27 bales of stock, of the value of \$708.64. We find the stock was sent in excess of orders, was rejected by the company, and held (previous to their suspension) subject to the order of Clark. We have, therefore, not taken it as an asset.

To the consideration of the creditors your commit-tee submit the disposal of an item of \$11,071.44, which appears from the books to be a loan of money and accrued interest belonging to F. W. Denison, a son of A. T. Denison, being money coming from his mother's estate. The loan was originally made to A. C. Denison & Co., whose property was afterward transferred to the Denison Paper Company, while the credit of this account was not transferred as it should have been. When the company suspended no provision had been made to protect this boy from the consequences of this neglect. It would seem just and equitable that he come in as a general creditor, entitled to any dividend the estate can pay, but it is the opinion of your committee that your consent is necessary before he can be entitled to even this. It would appear that if the appraised value of the

available assets were realized that the estate would pay about 18½ per cent., but that if this realization took place at once it would take all the quick and working capital. Your committee, having confidence in the integrity of the Messrs. Denison and in their skill and capacity as practical paper-makers, believe that if time were given them a larger percentage would be realized to the creditors by enabling the Messrs. Denison to bridge over into more favorable times and save the property from a forced sale. They recommend that a settlement be effected by the creditors accepting 25 per cent. of their several claims in four equal payments of six, twelve, eighteen and twenty-four months, from the first day of July, 1879, without interest. The notes to be signed by the Denison Paper Company, and indorsed by A. C. Denison, A. T. Denison and Calvin M. Cram.

To enable the company to pay this dividend of 25 per cent. It will be necessary for them during the next two years to realize the full appraised value from the available assets, say \$60,000, and obtain from their labors, their friends or their available re-sources, the further sum of \$20,000 to \$25,000. This ourden the company are willing to assume for the chance of saving a moiety to themselves or their children, of their labor of the last thirty years. It is for the creditors to decide whether they will accept these terms and conditions in full settlement. The alternative is bankruptcy, and that means in the opinion of your committee, a dividend of not exceeding 10 per cent. of the indebtedness,

Before the adjournment of the committee at Mechanic Falls, a vote was taken on the terms and con-ditions of settlement as above mentioned, and the rote was unanimous as to its advisability.

EDWIN MOREY, ARA CUSHMAN,
I. P. FARRINGTON, JAMES MUNROE,
J. M. ROBBINS.

### Manufacturing News.

EASTERN STATES.

Vernon Bros. & Co., will have during the oming week a new 72-inch machine, manu factured by the Rice, Barton & Fales Company, placed in their new mill at Salmon Falls, Mass.

The Chase Turbine Manufacturing Co., Orange, Mass., has just shipped to the Snow Silver Smelting Co., of Colorado, one of its lever set circular saw mills, and has also sent one of its set works to Cooperstown, N. Y., to replace one of another make which is not satisfactory.

Col. Green begun Monday, July 14, to put in a gang of sixty driven wells for the new Albion mill at Holyoke, Mass. The forty-eight wells at the Whiting mill No. 1, which have just been finished, will supply 500 gallons of water a minute.

Crane & Co., of Dalton, Mass., are busy making the necessary repairs in their Coltsville mill, fitting it for the manufacture of the bond paper to fill the contract recently awarded them. They will start some time in August, as their contract requires that they shall commence shipping September 1. There will be a guard of soldiers on duty night and day outside the mill. The help will be strictly searched each time they leave the mill to see that none of the paper is carried away.

The Forest Fibre Co., Berlin Falls, N. H., has ordered a new wheel from the Chase Turbine Manufacturing Co., Orange, Mass., to replace one broken.

The Livingston mill, belonging to the Woodruff Paper Company, Dansville, N. Y., has been stopped two months for general repairs. Three engines have been taken out, and two 500-lb. beating engines and one 600-lb. washing engine have been put in. The new engines were built by Cowles, of Rochester, N. Y., and are equipped with the Hollingsworth patent washer.

The Glens Falls Pulp Company, Ticonderoga, N. Y., is building a new wood pulp mill to manufacture wet pulp by a new process—the Jeffers patent. The company expects to have the mill in operation in four weeks.

WESTERN STATES.

The Chicago Steam Boiler Works are constructing the largest rotary boiler ever made in the West. It is to be placed in the new Enterprise mill at Wilmington, Ill.

FOREIGN.

Everling & Kaindler, 26 Rue Cadet, Paris, have taken the agency of the Jarvis Furnace Co. for the Continent of Europe, and will make a specialty of applying its improvement to paper mills,

The suit of Fett & Sengstak against the Seymour Paper Company, which was called for trial in the First District Court on Thursday, but it is held for their acceptances to its full value. Also the company are owners of \$41,800 at par value | has been again adjourned until August 21.

SECOND TO NONE 公公公公 TRADE P MARK.

THOROUGH.





THE ONLY PRIZE MEDALS AWARDED ASSORTMENT and CUTTING

RAGS AND WASTE PAPERS.





John Pfeffer & Co.,

Chief Works, - BELGIUM. PARIS, LONDON, BRUGES.

Seamed and Dusted Ready for Use.

SPECIAL ASSORTMENT

Waste Papers BAGGING.

Absolute Uniformity Guaranteed.

NEW YORK ACENTS: Messrs. LEE & STURGES.

23 Beekman Street.

# FRANK GREEN & CO.

193 Upper Thames Street, LONDON, E. C.

BRITISH PAPER MAKERS

Superfine Hand-Made ACCOUNT BOOK,

AGENTS.

BANK NOTE,

CHEQUE PAPERS.

Machine-Made Writings, Drawings, Bank Posts, Cartridges, Printings, And all the Best Marks of Paper.

# Grosvenor, Chater & Co.

68 CANNON ST., LONDON, E. C.,

PAPER MAKERS,

Wholesale®Export

STATIONERS.

Superfine Hand-made P WRITINGS, DRAWINGS, A

Account Book Papers.  ${f E}$ 

MACHINE-MADE WRITINGS, Tub-Sized and Loft-Dried,  $\mathbf{R}$ BANK NOTE & LOAN Printings, Charts and S

CHITCHE AND GRAMO PRIME WOILDS TARE 9 STZCE AND
ALL THE BILL BYATE TARE PRESUMES IN GOTE A 1674.
PORT,
1 260.) PTS 1004 OF TO 12

LIQUINGS LISS INF.

PIECE, INC.

MALE THROE AS FIRST AS ANY CITCLE PRISS

PIECE, INC.

MALE THROE AS FIRST AS ANY CITCLE PRISS

PIECE, INC.

AND ANY CONTROL OF PRIST AS ANY CITCLE PRISS

PIECE, INC.

AND ANY CONTROL OF PRIST AS ANY CITCLE PRISS

PIECE, INC.

AND ANY CONTROL OF PRIST AS ANY CITCLE PRISS

PIECE, INC.

AND ANY CONTROL OF PRIST AS ANY CITCLE PRISS

PIECE, INC.

AND ANY CONTROL OF PRIST AS ANY CITCLE PRISS

PIECE, INC.

AND ANY CONTROL OF PRIST AS ANY CITCLE PRISS

PIECE, INC.

AND ANY CONTROL OF PRIST AS ANY CITCLE PRISS

PIECE, INC.

AND ANY CONTROL OF PRIST AS ANY CITCLE PRIST AND CITC

# VERNON BROTHERS&CO...

PAPER WAREHOUSE,

65 & 67 Duane St., New York,

Manufacturers of the following Brands of Writing: Alleghany, St. Lawrence, National, Bay View, Congress, Windsor, Neptune, Castle, Durand & Co., and Palisade Note, Letter, Foolscap, Legal and Bill Cap Papers.

Manufacturers of the Vernon Paper Company's Ledger Paper, United States and Washington Flats, Superfine and Fine Flat of all sizes, White and Colored French Folios, Colored Flat Caps and Folios, Buff and Gold Envelope Papers, Engine Sized Flat Papers of first, second and third qualities, for Blank Book Manufacturers.

Manufacturers of Colored and White Tissue Papers and Tissue and Manilla Copying Papers.

Dealers in Rope and Jute Manillas of all sizes, Tissue Manillas, 16, 20 and 24 sheet count; Seidlitz Paper, Hardware, Machine and Super Calendered Book and News, Colored Poster, Glazed Cover; Diamond, all Rag, White and Colored Blotting-equal to any manufactured.

Importers and Agents for the sale of the English No. 682 White and Silver Ware Tissue.

Have now on hand a full line of the Celebrated Jessup & Laftin Woronoco Ledger Papers.

WM. H. HART, Treasurer.

WM. E. COFFIN, President.

CHAS. CARR, Gen. Manager.

# MACHINE COMPANY,

WORKS: Boston, Mass., TREASURER'S OFFICE: Granite, cor. of First Street.

PAPER MACHINERY,

OF EVERY DESCRIPTION IRON AND BRASS FOUNDERS.

FOURDRINIER and CYLINDER Machines, Washing and Beating Engines, Roll Bars, Bed Plates, Plunger and Fan Pumps, Rag Cutters, Bundle and Stop Cutters, CHILLED ROLLS a specialty. Rolls reground in the most approved manner. Special attention given to covering Press Rolls with GUN METAL; also furnishing Iron Rolls covered with RUBBER.

MESSINGER'S RELIABLE STEAM INJECTOR, STEAM AND HYDRAULIC ELEVATORS. STEAM PUMPS STEAM, WATER AND GAS VALVES



THIS Roofing has received the unqualified indorsement of all who have used it for its ease and simplicity of application by any ordinary mechanic combining in its merits and worth cheapness and durability with all the desired qualities of a Fire, Water and Wind Proof Roof ing. — Send for Descriptive

# EMPIRE STOUT, MILLS & TEMPLE FELTS.

Cylinder and Fourdrinier WET FELTS, PRESS FELTS,

JACKETS

WATERBURY & CO.

RENSSELLAERVILLE Albany County, N. Y.

In ordering Felts, give kind of Stock m quality of paper made, and we warrant Felts the

ORDERS PROMPTLY FILLED. OUR PRICES ARE IN CURRENCY.

Will send Price List upon Application All Felts sent out by us warranted to work wellnot may be returned.

THE EAST HARTFORD MFG. CO.

Manufacture their Celebrated Brands of "Pequot," "Charter Oak" and "Huron" Ruled Papers and Nehantic and

Huron Flats. cited for specialties in first-class papers prices furnished on application. BURNSIDE, CONN.

P. W. GALLAUDET, Hanker & Healer in Commercial Paper,

Nos. 3 and 5 WALL STREET.

Stocks and Bonds Bought and Bold on Commission. Advances made on Business
Paper and other Securities.

GEARING AND SHAFTING. Rag Engines,

Wood or Iron Tubs, Rag Cutters, Dusters, Pumps, &c.

THE AMERICAN TURBINE, as recently improve I utilizes a higher average percentage of power than any Turbine ever known, which justly entitles it to the position claimed for it as the BEST Water Wheel in the world.

Large Illustrated Catalogue sent free on application STOUT, MILLS & TEMPLE,

DAYTON, OHIO. HARRIS-CORLISS ENGINE, Built by WM. A. HARRIS, Providence, R. I.

Built by WM. A. HARRIS, Providence, R. I.

The best and most workmanlike form of the Corliss Engine now in the market, substantially built, of the less materials, and in both Condensing and Non-Condensing forms. The Condensing Engine will save from 25 to 33 per cent. of fuel, or add a like amount to the power and consume no more fuel. Small parts are made in quantities and interchangeable, and kept in stock, for the convenience of repairs and to be placed on new work ordered at short notice. My Valve Motton is the simplest in practice, not a toothed gear being used, while on some Engines there are from 3 to 5 pairs of gears. The method of driving my Regulator is no part of, and is in nowise connected with, the mechanism for actuating the Valves. I also dispense with a superfluity of valve levers. No other engine builder has authority to state that he can furnish this engine. The Only Works where this engine can be obtained are at Frovidence, E. I., no outside parties being licensed. Send for pamphlet containing full details, also list of sizes, with H. P.

#### DIRECTORY.

Cards under this heading will be charged for

#### NEW YORK HOUSES.

Paper	and	Pap	oer-Mak	ers' Supplies.
NDEDGON	T 1	e To	B Co	24 Bookman e

ANDERSON, J. F., Jr., & C	Co., 34 Beekman st.
BARRETT & CROTTY, Des	alers in Paper and Twine, 85 Centre st., N. Y.
BENEDICT & HIGHET.	118 William st.
HARD, MELVIN & SON,	25 Beekman st.
HEWITT, C. B., & BRO.,	48 Beekman st
HULBERT, H. C., & CO.,	13 Beekman st.
JONES & SKINNER.	131 William st.
MURPHY. JOHN J.,	47 John and 5 Dutch sts.
PERKINS & GOODWIN.	84 Duane st.
WATSON, GEORGE, JR.,	68 Beekman st.

#### Rags and Paper Stock.

ATTERBURY BROS.,

20.0 0 00000 0000	
BEEBE & O'CONNELL, Coper Stock Dealers,	ommission Paper and Pa- 78 Duane st., N. Y.
BRIGGS & TAYLOR,	60 Duane st.
BUCHANAN & CO.,	16 & 18 Rose st.
DAILY, TERENCE, Deale Rags,	er in Cotton and Woolen 327 East 33d st., N Y.
DALY, DANIEL, Metals, C	cotton and Woolen Rags, 366 Water st., N Y.
DAMERY, JAMES, Rags, W	Vaste Paper, Bagging, &c., 259 Front st., N. Y.
FITZGERALD, JAMES M.,	& CO. 37 South Fifth ave., N. Y.
GROSS, FR. A.	253 Pearl st.
GILDEA, PATRICK,	445 and 447 West 13th st.
HARLEY, GEORGE, 362	, 365 & 367 Third st., N. Y.
HAYWARD & MCNULTY,	6 Governeur slip, N. Y.
KEENAN'S, OWEN, SON,	Established 1840, 448 Pearl st., N. Y.
KENDALL BROS. & GODI 66 Joi	DARD, on st., cor. William, N. Y.
LIBMANN, JOSEPH, & CO	., New Rags a Specialty. 3 Howard st., N. Y.

66	John st., cor. William, N.
LIBMANN, JOSEPH, &	CO., New Rags a Specialty 3 Howard st., N.
LYON, J. W., & CO.,	35 Park s
MAHARIN, M. A.	35 & 36 Spring s
McQUADE, ARTHUR J. and Cotton Rags,	, Foreign & Domestic Wook 535 & 537 E. 13th st., N.
O'MEARA, M.,	27 Centre
SERGEANT BROS.,	78 William st., N.

O'MEARA, M.,	27 Centre st.
SERGEANT BROS.,	78 William st., N. Y.
SMITH, THOMAS,	30 Hester st.
TAYLOR, M. A.	398 Broome st.
TAYLOR, E. W., Packer	of the celebrated Brand

PFLUGNER, J. C., 404 & 406 W. Forty-first st., N. Y. TUCKER, JOHN. Dealer in Paper Manufacturers Stock, 201 & 203 William st., N. Y.

WARD, OWEN.

448 & 450 West 39th st.

### Paper-Makers' Chemicals and Colors.

HELLER & MERZ, Ultramarine, 55 Maiden lane, N.Y.				
RIKER, J. L. &	D. S.,	45 Cedar st.		
KLIPSTEIN, A	Elephant Brand	Aluminous Cake, Platt street, N. Y.		
LEVINSTEIN, J	., CAMPBELL & C	O., Blackley Blue, 2 Duane st., N. Y.		

Paper-Makers. ORRS & CO., Printing and Hanging Mills at a roy, Office, 39 Park Row, New York

	Omco	, 00	Y. CP.	( Mr. )
 		_		-
Into	Rutt	D.	nk.	

CABOT,	BOWLES & CO.,			
		Not	e Brok	er.

COLBY, C. A., Buys and Sells Notes of Paper Manufacturers and Dealers, 22 Nassau st., N. Y

### Straw Boards.

BUTTERFIELD, H. A., 548 Pearl st., near Broadway HAYES, JAMES E. & CO., 75 Duane st

### Wire Cloth.

LANG, MARIUS, Importer of Wire Cloth. 94 Bleecker st., N. Y

### OUT OF TOWN HOUSES.

### Belt Hooks.

TALCOTT, WALTER O., Box 680, Providence, R. I.

### Binders' Boards.

SHEEDER, J. FRED., Mfr. of Album, Binders', Trunk

### BARBER, J. & J. S., Paper Stock and Binders' Boards, 621 and 623 Commerce st., Philadelphia, Pa.

Dandy Roll Manufacturers.

### CHENEY BIGELOW WIRE WORKS Springfield Mass. Pat. Seamless Wove and Laid Dandy Rolls

Ice Cream Boxes, Wood and Paper Plates. AULABAUGH, CRUME & CO., Dayton, Ohio, Make a Specialty of Ice Cream Boxes.

### Paper Bags and Flour Sacks.

BLOOMINGTON PAPER AND BAG CO., "Acme" Satchel Bottom Bags, 38 & 40 La Salle st., Chicago, Ill. Paper Makers' Chemicals and Colors. BLANCHARD, J. HENRY, Chemicals and Wood Pulp. M Batterymarch st., Boston, Mass MITCHELL, WM. H., Paper-Makers' Chemicals, 43 North Front st., Philadelphia, Pa.

### O---- Making Machiness

CUSHMAN, DWIGHT, Manufacturer of Flume and S	Hartford, Conn. croll Turbine Wheels.
EMERSON, J. T., Patent Cone	Washer, Claremont, N. H.
HOLYOKE MACHINE CO.,	Holyoke, Mass.
SMITH, WINCHESTER & CO.	

### Paper Manufacturers.

CONSOLIDATED PAPER CO., 97 Washington st., Chicago, Ill. J. W. Frence, Pres.; C. M. Smite, Treas.; R. P. Dart, Sec. JERSEY CITY PAPER CO., White and Colored Tissue and Manilla Paper, 255 Wayne st., Jersey City, N.J.

Rags, Paper and Paper Stock.

ELLIOT, A. G., Paper & Paper Stock, 26 S. Seventh st., Philadelphia. Hong Kong. 373

Rags, Paper and Paper Stock-(Continued). GARRETT & BUCHANAN, General Paper Dealers and Mfrs. 3, 5 and 7 Decatur st., Philadelphia. MARKER, JOHN D., & SONS, Wholesale Dealers in Rags, 413 Commerce St., Philadelphia. SIMMONS, JOHN. Wholesale Dealer in Paper and Ragn. 20 & 22 Decatur st., Philadelphia

WALSH, D. J., & CO., 6 South Front st., Philadelphia All Kinds of Woolen Rags Bought for Cash. BLOCK & POLLAK, Paper Stock, 206 to 226 West Third st., and 39 to 57 McFarland st., Cincinnati, O. BUTLER. THOMAS, Dealer in Paper Stock, Wooler Rags, &c., 249 Causeway st., Boston, Mass DORAN, A., Wholesale Dealer in Paper and Paper Stock. 6 & 8 Union st., Bridgeport, Conn. B. FELSENTHAL & BROS. Paper. Bags, Twine, Woolen & Cotton Rags, 156-160 S. Desplaines st., Chicago. FRANZEN, WM., Wholesale Paper, Paper Stock and Woolen Rags, 60 Oneida st., Milwaukee, Wis. GILBERT, Wm., & CO., Paper and Woolen Mfs' Ma terials. 11 & 13 Market st., Chicago, Ill.

GRAHAM & BRO., H. B., Paper Warehouse and Stock St. Louis, Mo. HARRIS, M. & BROS., 401 & 405 Fifth ave., Chicago, Ill. Branch Houses: Dubuque, Ia.; Burlington, Ia. LOEWENTHAL BROS., Woolen Rags, Paper Stock, 10 & 12 No. Canal st., Chicago. LANEY, JAMES, & CO., Dealer in Paper and Paper Stock, Cotton and Woolen Rags, Rochester, N. Y. LOEWENTHAL, B., Dealer in Paper Stock and Woolen Rags, 51 W. Lake st., Chicago, Ill McARDLE & HART, Cotton & Woolen Rags and Pa-per Stock. 290 & 291 West st., N.Y., & Newburg, N.Y.

MARKLE, C. P. & SONS, Mfs. of Printing and Glazed Hardware. 126 Second av., Pittsburg, Pa. MAYER, A. B., Rags and Paper Stock Dealer, 1014, 1020 & 1022 N. Twelfth st., St. Louis, Mo. NATIONAL PAPER CO., Holyoke, Mass. Dealers in Paper and Paper Stock Stock sold on Commission. RICHMOND & CO., F. H., Paper and Paper Stock Warehouse, Cotton Waste Dealers. Providence, R. I. SNIDERS, LOUIS' SONS, Manufacturers and Whole-sale Paper Dealers. 121 Walnut st., Cincinnati, O. WINKLER ISAAC, & BRO., Wholesale Dealers in Woolen Rags, Paper Stock, and Manufacturers' Supplies generally, 18 & 20 Main st., Cincinnati, O.

## Straw Boards and Straw Wrapping.

### TUCKER'S, E., SONS, Straw Boards, Paper and Pa-per-Box Mach'y, 100 Trumbull st., Hartford, Ct.

### Wire-Cloth Manufacturers.

HOLYOKE WIRE WORKS, Fourdrinier Wires and Dandy Rolls. BUCHANAN, BOLT & CO., P. O. Box 463, Holyoke, Mass. STANDARD WIRE WORKS

#### Wood Pulp Board. McCANN, FITCH & CONVERSE, Chicago, Ill. Sole Agents for "Androscoggin Wood Pulp Board."

FOREIGN HOUSES. Wood Pulp and Wood Pulp Boards. THE GOTHENBURG COMMERCIAL CO. (Limite Market Buildings, 29 Mincing Lane, London, Eng

#### IMPORTATIONS OF PAPER STOCK PAPER, BOOKS, CHEMICALS, &c.

IMPORTS of Paper and Paper Materials, Books &c., at the Port of New York, for the week ended July 11, 1879. Quantity given in pack-ages when not otherwise specified.

Aniline Colors	226	\$18,970
Alum	_	_
Aluminous Cake	_	_
Bleaching Powders	288	3,455
Soda Ash	1,362	29,077
Soda, Bicarb	_	-
Soda, Caustic	1,019	15,122
Soda, Sal	584	1,655
Ultramarine	5	310
Books	183	27,309
Newspapers	94	4,476
Engravings	9	1,397
lnk	6	756
Lead Pencils	_	_
Paper	48	5,131
Steel Pens	5	3,436
Stationery		_
Clay	-	5,926
Jute Butts	_	
Jute Rejects	-	_
Paper Hangings	6	370
Paper Stock	4,985	74,561
Waste	11	495
Total		\$192,446

TOTAL IMPORTS.	
General Merchandise, for the week ending July 11.	\$3,436,557
Paper, Paper Stock, &c.— For the year ending May 28, 1878	. 15,074,825
For the year ending May 22, 1874 For the year ending May 21, 1875	
For the year ending May 26, 1876	11,298,406
For the year ending May 25, 1877 For the year ending May 24, 1878	. 10,246,418
For the year ending May 23, 1879 For the week ending May 30, 1879	9,561,091 221,699
For the week ending June 6, 1879	262,738
For the week ending June 13, 1879 For the week ending June 20, 1879	. 121,556
For the week ending June 27, 1879 For the week ending July 4, 1879	. 190,808

IMPORTS of Rags and Paper Stock at the Port of New York, since Jan. 1, 1879, from the follow-

	Rage		Manilla Stek Bales.
Aleppo	-	4	-
Antwerp	1,035	1,660	-
Bremen	1,764	618	466
Bristol	180	491	. 76
Buenos Ayres	100	_	
Calcutta	-	_	178
Cardiff		155	_
Catania	774		
Cette			_
Copenhagen	517	_	
Dundee		1,639	460
Genoa	397	-	
Glasgow	1,001	1,586	567
Halifax		49	_
Hamburg		451	190
Havana		40	
77	-		

Rags.	Paper St'ck.	Manilla Stck
Hull 5,248	1,041	1,527
Kingston 111	-	_
Konigsberg 1,422	-	
Leghorn 5,542	-	-
Liverpool 2,169	1,966	3,266
London 11,060	9,578	5,323
Malta 5:6	-	
Naples 429	-	_
Nuevitas 9	-	
New Castle 629	***************************************	591
Palermo 18	_	-
Para	8	-
Pillau. 1,946	interes or	-
Port-au-Prince 50	-	_
Rio Janeiro 105		
Rotterdam	147	_
Seville	17	_
St. John's	48	-
Shanghai 261	-	_
Stettin 128	-	. 30
Trieste 848		
Colombo 2	Marin of	

EXPORTS of Paper, Books, &c. from the Port of New York to Foreign Ports, for the week ended July 15, 1879, with Aggregates and Values.

BOOKS, cases, to Hamburg, 2; to Cuba, 1; to Mexico, 9; to Havre, 1; to Glasgow, 2; to Livery col, 11; to China, 5; to United States of Colombia, 15.

PAPER, to Argentine Republic, 10 pkgs.; to Vene zuela, 328 pkgs.; to United States of Colombia, 237 pkgs.; to British West Indies, 1,693 rms., 44 pkgs.; to Liverpool, 3 cs.; to Hayti, 100 rms., 46 pkgs.; to Cuba, 38 pkgs.; to Brazil, 5,750 rms.; to Mexico, 20 pkgs.; to Bremen, 54 pkgs.; to Hull, 17 cs.

STATIONERY, cases, to Hamburg, 4; to Bremen, 1; to Cuba, 19; to British Possessions in Africa, 1; to Liverpool, 27; to United States of Colombia, 33,

#### AGGREGATES AND VALUES.

Paper, reams	** ***				7,548	\$1,310
Paper, pkgs					777	7,009
Paper, cases			****		20	531
Books, cases				+ * -	31	3,361
Rosin, bbls					3,369	9,944
Stationery, cases.	******	1.00	****		100	6,897
Totals					11,840	\$29,055

	TOTAL EXPORTS.	
	eneral Merchandise, for the week ended July 15, 1879.	5,878,670
P	aper, &c., for the year ended May 27, 1873.	2,889,482
	sper, &c., for the year ended May 26, 1874.	1,783,877
	aper. &c., for the year ended May 25, 1875.	2,327,682
Pi	aper, &c., for the year ended May 23, 1876	1,654,384
Pi	aper, &c., for the year ended May 29, 1877.	1,790,669
	aper, &c., for the year ended May 28, 1878.	1,576,562
	aper. &c., for the year ended May 27, 1879.	1,889,783
	aper, &c., for the week ended June 3, 1879.	33,811
P	aper, &c., for the week ended June 10, 1879.	59,813
	aper, &c., for the week ended June 17, 1879.	35,609
	aper, &c., for the week ended June 24, 1879,	23,039
	aper, &c., for the week ended July 1, 1879.	26,995
	aper, &c., for the week ended July 8, 1879.	40,385

#### NEW YORK IMPORTS.

FROM JULY 12, 1879, TO JULY 18, 1679 INCLUSIVE Rays, &c.

R. B. Briggs, State of Georgia. Glasgow, 82 bs. pa

J. L. Taylor, by same, 58 bs. paper stock. J. L. Taylor, Utopia, London, 105 bs. paper stock.

W. I. Clark, by same 39 bs. paper stock.
J. W. Lyon & Co., by same, 37 bs. paper stock.
Cohu, Lazarus & Co., Thingvalla, Copenhagen, 43

G. H. Mann, by same, 419 bs. rags.
M. A. Ring & Son, Delos, Liverpool, 137 bs. paper

Fabbri & Chauncey, Profeta, Genoa, 150 bs. rags. G. H. Mann, De Ruyter, Antwerp, 123 bs. rags, R. B. Briggs, Holland, London, 911 bs. rags and

J. L. Taylor, by same, 69 bs. paper stock.
O. Keenan's Son, Arragon, Bristol, 90 bs. paper John W. Mason & Co., by same, 78 bs. old rope. W. H. Parsons & Co., Holland, Liverpool, 42 bs

W. I. Clark, Erin, Liverpool, 47 bs. paper stock. H. Wolff, Otranto, Hull, 1 bale paper stock.
J. B. Brown, Nellie Scott, Hull, 15 bs. paper stock.

Jas. Brand, Avon, Colombo, 2 bs. rags. John W. Mason & Co., Arizona, Liverpool, 144 bs

Eimer & Amend, Cimbria, Hamburg, 2 cs. C. B. Benjamin, by same, 1 cs.

Wells, Fargo & Co., Cimbria, Havre, 3 bs. hang

Hester Bros., France, Havre, 1 cs. hangings Fischer & Kellar, by same, 1 cs. hangings Avery, Pennabert & Co., by same, 11 cs. John Campbell & Co., De Ruyter, Antwerp, 12 cs. R. Giedhill, Baltic, Liverpool, 2 cs. hangings, T. M. Bankenstyn, Main, Bremen, 3 cs. Charles Joerg, by same, 1 cs. Banatt Bros., by same, 2 cs. G. J. Kraft, by same, 2 cs. B. Ullman, by same, 2 cs. May Bros., Canada, Havre, 25 cs. cigarette paper. C. B. Benjamin, Suevia, Hamburg, 2 cs. L. de Jonge, by same, 2 cs. G. Gennert, by same, 3 cs. E. & H. T. Anthony & Co., by same, 2 cs. Pelgram & May, by same, 1 cs.

### BOSTON IMPORTS.

FROM JULY 10, 1879, TO JULY 16, 1879, INCLUSIVE. [Note.—For some unexplained reason the Custom Iouse authorities at Boston have decided to with hold the names of importers of merchandise from the press. Parties wishing their names to appear in the reports of imports will please communicate with J. Henry Blanchard, No. 36 Batterymarch street.—Ed.]

Books. C. Schoenhof, Batavia, Liverpool, 1 cs. Stone & Douner, by same, 6 cs. Order, by same, 1 cs. Order, Marathon, Liverpool, 1 cs. Order, Minnesota, Liverpool, 1 cs. Order, Elizabeth, Margaretville, 1 cs.

C. Reid, Batavia, Liverpool, 2 cs. manufactured. Wamsutta Mills, by same, 2 cs. printed labels. Order, by same, 4 cs. Order, by same, 2 cs. manufactured Order, by same, 1 cs. manufactured.
Order, by same, 1 cs. manufactured.
Order, Massachusetts, Liverpool, 1 cs.
Order, Marathon, Liverpool, 1 cs. manufactured.
T. Grover & Co., by same, 6 cs.
Order, Victoria, Liverpool, 1 cs. music.

Paper.

Paper Stock.
Order, Istrian, Liverpool, 21 bs. paper stock. Morey & Co., by same, 137 bs. paper stock.

Warren & Co., Glamorgan, Liverpool, \$106 bs. aper stock. H. M. Knowles, Batavia, Liverpool, 168 bs. paper

Order, Minnesota, Liverpool, 83,508 lbs. rags. C. A. Cheney, by same, 254,642 lbs. paper stock. Order, by same, 46,252 lbs. paper stock

T. Butler, Worcester, Halifax, 26 bs. paper stock

Jute Butta. Order, Highland Light, Calcutta, 200 bs

Soda Ash. Order, Virago, Hull, 20 cks. alkali. Order, by same, 14 cks, Linden & Meyer, Istrian, Liverpool. 34 cks. Warren & Co., Glamorgan, Liverpool, 115 cks. W. B. Reynolds & Co., by same, 52 cks. Order, Batavia, Liverpool, 128 cks. alkali. Warren & Co., Minnesota, Liverpool, 253 cks

Caustic Soda.

E. & T. King & Co., Glamorgan, Liverpool, 100

Bleaching Powder. Warren & Co., Glamorgan, Liverpool, 186 cks. Morey & Co. Istrian, Liverpool, 260 cks.

Order, by same, 105 cks. Order, by same, 96 cks. Warren & Co., Minnesota, Liverpool, 90 cks.

Sal Soda. E. & T. King & Co., Minnesota, Liverpool, 280 bbls

China Clay.

J. Henry Blanchard, United States, Savannah, 6 Venetian Red.

May, Nash & Winslow, Virago, Hull, 100 bbls Ultramarine.

Morey & Co., Istrian, Liverpool, 20 cs

R. B. BRIGGS.

Also, Sole Agent for Dundee Paper Stock,

selected and packed by JOHN S. BRADFORD.

Clepington Steam Waste Works, DUNDEE, SCOTLAND.

A. H. GERE 73 Walnut St., Cincinnati,

# DYE STUFFS

T I carry large stock and ship promptly on receipt of order.



#### HE BUCKEYE AUTOMATIC CUT-OFF ENCINE.

e most ECONOMICAL in Fuel. The best REGULATION of Speed. The most simple in Construction, the most SUB-STANTIAL, and altogether the BEST ENGINE in the market.

Among Paper Manufacturers we refer to Hon. Geo. West. Ballston Spa, N. Y., four engines. Hollingsworth & Whit. ey, Gardiner, Me., and South raintree, Mass., three engines. Richards & Co., Gardiner, Me. Z. Crane, Jr. & Bro., Dalton, Mass. Brown & Lockhart, Angelica, N. Y. P. H. Glatfelder, Spring Forge, Pa., two engines. Send for Illustrated Treatise and Estimates to

BUCKEYE ENGINE CO.,

ROOM 42, COAL AND IRON EXCHANGE, COR. CORTLANDT AND CHURCH STREETS; or HILL, CLARKE & CO.,

36 & 38 OLIVER ST., BOSTON, MASS. **BURNHAM'S** ATER-WHEEL MILLING SUPPLIES

#### COMPANY -AY

OFFICE:

No. 220 South Second St.,

PHILADELPHIA, PA.

-LIMITED.-

WORKS:

Mertztown, Berks County,

PENNSYLVANIA.

## MINERS AND MANUFACTURERS OF WHITE CHINA CLAY.

Especially adapted to Paper Makers' use.

SMITH, WINCHESTER & South Windham, Conn., MANUFACTURERS OF

## PAPER MACHINERY

FOURDRINIER AND CYLINDER MACHINES. Washing and Beating Engines.

FOR DRYING SIZED PAPERS.

Sole Manufacturers of the

### JORDAN PATENT BEATING ENGINE, Which has no rival for clearing the stock for fine papers.

CHILLED IRON & PAPER ROLL

## SUPER CALENDERS.

Plate Calenders:

Chilled Stack Calenders, Rag Cutters, Hand and Power Cutting Presses, Stop Cutters. THE HATCH PATENT

### Stop Cutter,

The only Cutter that can be regulated to cut between water marks of writing papers.

### SCREENS,

BRASS AND NICKEL PLATED.

The latter warranted to wear twice as long as brase, BED PLATES, ROLL BARS,

FAN AND PLUNGER PUMPS.

Gun Metal Covered Rolls. FOR SIZE AND PRESS ROLLS.

### STEVENSON

WATER WHEELS.

Shafting and Mill Gearing Generally.

### Paper Trade Journal the

### The American Paper Trade. Weekly, \$4.00 per annum.

Single Copies,

. . . 10 Cents

NEW YORK: SATURDAY, JULY 19, 1879

Advertisements cannot be received for insertion in the current week later than 9 a. M. on Friday. The charge for advertising is 25 cents a line, each insertion. Special terms for standing and displayed ad vertisements to be had on application. Card in Directory Column and one copy of paper, \$10 a year Card in THE PAPER TRADE JOURNAL is the recognized organ of the various Paper-Makers' Associations of the

United States.

THE JOURNAL contains the latest and fullest information relative to the paper trade in all parts of the world, including descriptions of new appliances and processes for making paper, experiments with libres and other materials, a record of the way supply, with the latest manufacturing news in all parts of the country. It gives the cream of all the foreign technical journals which relate to the paper hesides communications from compet persons in the trade, both at home and abroad. market review and quotations show the state of trade in all the principal cities, and no pains have been spared to make these accurate and complete.

Subscription and postage for Great Britain, per annum.....Subscription and postage for France, per annum. 25 f ubscription and postage for Ger-many, per annum 24 reichs 25 france Foreign subscribers may address our New York

Communications on matters of interest to the trade are earnestly solicited from all quarters, and if used will be liberally paid for. Items of news, and facts of all kinds in relation to the state of the mills, &c., will be gladly received.

All communications must be address HOWARD LOCKWOOD,

Publisher and Proprietor,

No. 74 Duane street, N. Y.

BRANCH OFFICES.

New England Office : J. F. RIDAY, General Man ager, 36 & 38 BROMFIELD STREET (Wesleyan Building) STON, MASS.

Western Office : 8 LAKESIDE BUILDING, CHICAGO,

Philadelphia Office: 702 CHEST NUT STREET Detroit: F. H. DRAKE & Co. (Agents for Mich-

	ERAL AGENTS.
W. F. Catcheside	16 Paternoster row, London.
Leonardo Pardo	Vigo, Spain.
Leonardo Pardo	Antwerp, Belgium.
& Bernard	Venice and Florence, Italy
J. H. de Bussy	Amsterdam, Holland, and
J. H. de Bussy	the Dutch East Indies.
Gordon & Gotch	Melbourne and Sydney
Gordon & Gotch	Australia.
Francisco & Rec	Adelaide, South Australia
Tinton & Co	Anckland, New Zesiand.
R T Wheeler	Dunedin, New Zeaming
A G Webster	Hobart Town, Tasmania.
Knight & Co	Newchwank, China.
Kelly & Co A Illustração Brasileira	Yokohama, Japan.
A Illustração Brasileira	Rio de Janeiro, Brazil.
Wadamian China	Havana (310a.
Seymour Keeler E. P. Pellet	Valdivia, Chili.
E P Pellet	Barranquilla, Colombia.
Pedro Obregon	La Guaira, Venezuela.
Pedro Obregon	Montevideo, Uruguay.
Da Costa & Co	Barbadoes, W. I.
Chas Bartlett, Jr. & Co	St. Pierre, Martinique, W.I.
J. O. Ryder I. J. Cohen de Lissa	Tamatave, Madagascar.
I. J. Cohen de Lissa	Port Louis, Mauritius.
G. C. Cato	Durban, Natal.
G. C. Cato	Honolulu, Sandwich Is
Thomas G. Thrum	lands.
John G Clark	Kingston, Canada.
A. T. D. Shaw	.Toronto, Canada.

### TO CORRESPONDENTS

THE PAPER TRADE JOURNAL is the recognized pehicle of communication in matters of trade terest, we will be glad to receive correspondence from all parts of the country. Information and sugges-tion upon paper-making topics are especially valu-able, and manufacturing news and personal items are equally acceptable.

Subscribers to THE JOURNAL can be supplied with the heat cloth binder in the marke the publication office. Price, \$1.25 arket. Deliverable at

Readers of this paper who avail themselves of th information obtained from its colurans, by advertise must or otherwise, are requested to notify their correspondents of the source of their information.

oing paper-makers of this State have at last come together and have agreed to run short time for six months. The leading commission dealers have also made an agreement not to handle any paper outside of the combination. The effect of this is shown at once in advanced quotations, prices now being 15 per cent. higher than last week. Are the manufacturers surprised? Perhaps they have at last come to the wise conclusion that there is virtue in adhering to agreements and profit in uniting their interests. We hope that they will stick to their plan and that dealers and paper-makers alike will realize that their interests are in common.

WE illustrate this week a recently patented apparatus for recovering soda ash. We do not find indications, either in the drawing or specification, of any provision perhaps cost more; transportation may to keep up a continual circulation through the induction-coil. If this is not done the remote. Taking it all in all no paperpipes will be at once destroyed by the maker can figure up just what it

intense heat of the flames from the incinerating furnace. A strong steady circulation is absolutely necessary to prevent the burning of the pipes, or their becoming so incrusted inside with insoluble soda that it will be impossible to keep up the circulation. We prefer to have the coil placed in the bottom of the evaporating pan, where it is kept hot, and, at the same, in no danger of being burnt.

Do not forget that the annual meeting of the American Paper-Makers' Association is to be held at Saratoga, on Wednesday, July 30. The paper trade at the East are making ready to attend it, and we hope to be able to report a good representation of the trade from all parts of the country. We are informed that special arrangements have been made with the Boston and Albany Railroad to take the Eastern papermakers to the Convention for \$6 the round trip from Springfield to Saratoga and return, tickets to be good from Saturday, July 26, to Monday, August 4, inclusive. These tickets can be had at the paper store of Taylor, Nichols & Co., Springfield, only, Like arrangements ought to be made with the roads bringing members from the West. The different district committees should attend to this at once.

A CORRESPONDENT directs attention to the fact that there are dealers in and huvers of paper who take advantage of every opportunity to "bear" the market, and who constantly argue, from incorrect premises that the cost of manufacture is less and that prices ought to be lower. It is easy to understand why purchasers and consumers of paper should pursue this course, and it is just as easy for the paper-maker to perceive the illogical reasoning of people who know very little about paper, still less about its manufacture, and nothing at all of the cost of its production. These would be surprised to know how closely the profit on paper is figured, and how many items of expenditure are involved in it before it leaves the mill. Experienced paper manufacturers make a close estimate of all their expenses and endeavor to have every pound of the paper they produce carry its legitimate share of those expenses. Fifteen per cent. per year is the least that can be charged for deterioration of plant and machinery. It must be remembered that when the machinery in a paper mill has run ten years it has really done twenty years' work, having run night and day, and oftentimes really good machinery must be changed, or it may be thrown out entirely, to introduce improvements and keep pace with the advance of the times. Inexperienced or careless paper-makers often unwittingly deceive themselves when estimating their expenses. For deterioration, they estimate a few dollars per day for repairs; they are almost sure to estimate their production too high, and their consumption of coal too low. Again, in estimating the quantity of paper a given quality of stock will make, be it rags, papers, wood-pulp, or straw, or any other of the five hundred and one varieties of stock now in use, they will surely get that too high. Some scout the idea that it will require two hundred pounds of rags to make one hundred pounds of paper, or that it will take more than 125 pounds of old print papers to make 100 pounds of new paper, and they are certain that by their system they can get more than fifty per cent. of white paper out of their straw. It would be very difficult, and, indeed, we have not room to enumerate the very many items of the expense account-unconsidered trifles when a person goes to figuring up the cost of making paper-which in the course of a year swell to a large amount, depleting the paper-maker's pocketbook, and leading up to that "little overdraft," of which our correspondent speaks. Because some manufacturers are exceptionally situated as to fuel, stock, power, &c., it does not follow that they are equally favored in all respects. Other supplies must be had, and be more difficult or a market more

will cost him to manufacture for a year ahead, and the repairs, breakdowns and other vicissitudes of his business are all to be included in a very respectable margin of unknown per cent. How is it, then, that consumers can presume to argue upon or profess to know what paper ought to sell for or what it costs to produce? They cannot do it, and it is only a "bluff" when they undertake it. The dealers who some times operate adversely to the manufacturers stand in another category. Many of them carry large stocks, on every pound of which they incur a loss with every depreciation in price. Instead of quoting the market weak and offering paper at extraordinarily low prices, they should aim to preserve a steadiness of values which would inure as much to their own benefit as to the good of the manufacturer. Instead of an antagonism of interests between the producer and the dealer, there should be perfect harmony. Some buyers visit a mill, and by dexterous figuring demonstrate that paper can be made for a price and sold so much lower than ruling quotations. They make a contract under cost. The manufacturer feels it but does not know how it comes about. The figures tell only a part of the story-good enough perhaps so far as they go, but not going far enough. It is a mistake to do business on this plan, and dealers err greatly when they put themselves at odds with the paper-maker. There are many who are wiser, and they rarely fail in business or break down the mills whose products they sell. As we have remarked, paper is sold close, and for the good of the trade all round the market should not be impaired by attempts to sell cheaper.

#### Oueries and Replies.

Ouery.-Our rotary boiler runs by gears, and seems to turn harder than it ought to; the gears cut and sometimes break. Can you tell

us the reason? Ans.—The probability is that the rotary runs in the wrong direction. If the gear turns the boiler downwards, it is wrong. You must change it so that the gear will turn the boiler upward (lifting instead of pulling), thus reducing the friction in the bearings and allow ing it to run easier.

Query.-Our animal size is good and strong. We get a good result except as to color. size is quite dark and somewhat injures the color of our paper

Ans. -Be careful not to get it too warm. When making it, the first cooking should not exceed 185° in temperature. It requires great care and skill to make a good strong animal size and have it a light color. Vegetable gelatine is now, to some extent, used in place of glue for tub-sized papers. It is obtained from Irish moss, or as it is sometimes called Carrageen, and is a nice light color.

Ouery.-We are troubled somewhat with the color of our white print paper. It requires a large amount of ultramarine and pink, and even then the color is a dirty white. What

Ans.-It may be poor ultramarine which will not stand alum. You can test this by putting a little in a glass, pouring a little alum water on it and letting it stand a few hours. If the ultramarine is good it will retain its color; if not good, it will be changed to what you call a dirty white.

Query.-We are troubled with our first press felt; the air gathers between it and the paper producing a series of short wrinkles, whi course, ruins our paper. We have followed the directions given in THE JOURNAL some years ago which prevents the blowing on all ordinary papers, but when we get down to very thin papers it begins again.

Ans.—Be sure that you raise the roll next to the paper as tight as possible as it comes from couch roll to the first press roll.

Query.-We are much troubled with froth or our machine in making engine-sized paper. at can we do to prevent it?

Ans .- There are so many causes of froth that it is somewhat difficult to answer the question. The whole subject of sizing in the engine will be discussed in THE JOURNAL in a short time. One prolific cause of froth which is mostly overlooked, is, in the washing and making the rags into half stuff. Wash the rags clean. break in " slow, leaving the half stuff somewhat long. Do not use any more bleach liquor than is absolutely necessary to get the ock white; use the smallest possible quantity of acid and drain as dry as possible before furnishing in the beater.

Query.- Is it best to boil fine white rags in a rotary or in a stationary boiler ?

Ans.-A rotary is the best, provided you use enough water and not too much steam. For fine white rags ten pounds steam pressure is sufficient, but with the rotary in direct communication with the steam boiler it is difficult to keep it at this point. There should be valve between them, for the purpose keeping or regulating the pressure in the

### Communications.

unications are solicited from everyone who has anything of value or interest to impart. Items of news, trade gossip, and personal information will be gladly received. Correspondents are requested write only on one side of the paper. No responsi ndents attach bility for the opinions of corre bility for the opinions of correspondents attaches to this paper. Communications must be sent to reach this office by Wednesday night or Thursday more ing, of each week, to insure insertion.]

#### What Has Become of Him?

To the Editor of The Journal:

What has become of Jack Orr ! I have he it rumored that he is dead. If so, I would feel obliged if any of the subscribers to THE JOURNAL will furnish particulars. Is it possible that such an old landmark of the trade has passed away without remark ! Yours, JAMES C.

#### What is the Principle?

To the Editor of The Journal:

When I referred to that old "Query," I did not expect to give you so much trouble. I only want to know the correct principle of guiding the wire and felt, and how to make a belt run straight on its pulleys. In place of learning this I am told the old stories about the wire and felt running to the tight side and traveling to the slack side and going to the high side. series of experiments are recommended to prove that they travel to both sides, and assertions are made that they don't travel to either side. give up.

#### The Travel-Rag Knives.

SHORTSVILLE, July 14, 1879. To the Editor of The Journal:

There seems to be quite a bone of contention as regards the running of belts, felts and wires. Now, my experience has been that the belt, felt or whatever it may be, will run toward the side of the pulley or roll that it touches first. If the stretch-roll is slackened on the front side the felt moves that way. Why! Because the felt touches there first. Still the felt is the slackest on that side. Now, for instance, the stretch-roll is even on both sides, run a piece of felt around the roll on the front side and the felt will travel forward the same as before. This is because it touches there first.

In your Query and Reply column I see there is a question as regards rag-knives. I would say that I have run cast-iron cylinder knives, and they worked well, but the bed knife should be

[Will our correspondent inform us how often the knives required setting up, how many pounds of rags or bagging they would cut before the edge required renewing, and how the edge was renewed? Was it by chipping, grinding or planing ?--ED.]

### Stock Heating.

To the Editor of The Journal:

In looking over your last issue I observed, where in Queries and Replies, it is rec as a remedy for stock heating and getting black in the engine, to "set the bed plate well up and a trifle forward. The back end of the fly bar should touch the plate before the frame end touches," &c. This touching of the fly bars. first on the back end of the plate cannot well be avoided, except in mills where both ends of the roll can be raised and lowered at the same time. When stock is furnished white into a beating en gine, and in beating the stock gets dark in color, it is clear that the plate is not sitting right, or it may be that the lighter is lowered oo far, thus allowing the roll to wobble on the plate; but it is most likely that the knives are too soft. Raising plates, in a case of this kind, is too thin for comment. There can be no better sign when making thin papers than to feel the stock heat in the engines. It shows at once the stuff is not being spoiled. If the heating part be a grievance (as I can see no hurt it can do to the stock), just sharpen the knives. This will do away with the heating in the engine room, but it will cause a most awful heating up of things in the machine room at the company's

### The Low Price of Paper.

OUT WEST, July 11, 1879. To the Editor of The Journal:

Business prospects with us out here are brighter than for a long time past.

Produce of all kinds is bringing fair prices and in all the staples the crops bid fair to be fully up to, if not better than, an aver branches of trade have felt the improved state of affairs, except paper-making.

The low price of all kinds of paper has stimulated production, and necessitated the purchase of the raw materials used in its manufacture at lower rates than formerly, but the decline in cost of the latter has not been equal to the de-preciation in the selling price of the manufactured goods; so that margins and profits have suffered unduly.

One cause of the continuance of the low price of paper is in the belief that has become firmly seated in the minds of the dealers and large con sumers that paper can be made at a figure far below its actual cost.

No one but an experienced and successful manufacturer can know the great and constant expense of running a paper mill. The risk of fire, the wear and tear, the rotting down and rebuilding, bursted pipes, boiler patching, torn felts, new belts, broken gears, wasted stock, lost time, high water, low water, muddy water, and the thousand and one things almost impossible to foresee, but all of which come, must be met and paid for out of the profits that figure up so nicely on paper.

The other day I heard a successful manufacturer say that there was not a paper mill running in the United States that he could not prove by figures to be making money; but that croakers to the contrary notwithstanding.

the real facts of the case, despite the figures, were that one-third were running at an absolute loss, while the rest were barely getting back a new dollar for an old one.

In my opinion much of the mistaken idea of the cost of paper is produced by dealers, who seem to have an uncontrollable desire to bear the paper market. The low price of rags, the cheapness of wood pulp, the good qualities and chempness of wood manillas is mixed together with everything that can tend toward making general the belief that paper costs nothing to make, and that all the paper-maker gets for his goods is clear profit.

Even the poor straw-wrapping man doesn't escape. Is there a mill that gets straw for the hauling? Forth goes the word that straw paper can be made and given away at a profit. some little steam mill luckily located near a coal mine get coal dust for a dollar a ton or less ? Then it is thought to be conclusive that straw paper-makers out West are only giving generous doses of "taffy" to a confiding public when they tell the story of mills and machinery worn out, and years spent in hard work and worry, and no balance at the bank except that same little overdraft.

A few months ago a large number of the straw aper-makers of the West contracted their entire product to a few of their number, under the ame of the Consolidated Paper Company, which company takes and pays cash for the entire product of the mills, contracting at a price largely in advance of the prices ruling at the time the contracts were made. I am not a straw paper man, but I am reliably informed by those that are that the Consolidated Paper Company has caused a decided advance in the price of straw paper; it has paid for all at has received promptly, and has sustained the advance it made. I wish they, or some one else, would do the same for print.

Most any one would think that such a move nent would receive the good will of those who live by the paper-makers, but ever since the company was formed it has only met with opposition from many dealers. I am told that some have wisely co-operated with the company, thus belping to keep the market steady and enhancing the value of their own stocks. The harmony of interests existing, or which ought to exist, between manufacturers and dealers is very important, and should engage the attention of the trade.

#### A Caution to the Trade.

MIDDLEBURGH, N. Y., July 15, 1879. To the Editor of the Journal:

Manufacturers of paper cannot be too cautious in giving employment to a class of men whose moral sensibilities have become so benumbed and morbid by intemperate habits that they have no regard for other's interest, and who for the most trifling cause in their disordered imaginations would not hesitate to wipe out the accumulations of one's whole lifetime with a match.

The want of such caution has cost me \$8,000, and this advice is given to prevent others from similar sudden and unlooked-for calamity.

Too wide a berth cannot be given to "trampe" whose "skilled fingers" consists more in handling a cup or striking a match in the murky hours of the night than in the manipulations of the higher branches of paper-making. the most pleasant moment of one's life to be called up at night to see wiped out in an hour mulations by hard toil of one's whole life, while the reflection that it was the diabolical act of an incendiary, without the shadow of a cause, is, to say the least, insufferable in the Let my misfortune and want of caution be a lasting warning to paper-makers, and that the beneficial lesson which the whole industry derives from it may far exceed the loss I have sustained, is the motive of this commu-J. M. SCRIBNER. nication.

### The Straw Wrapping Manufacturers.

A very largely attended meeting of the straw wrapping paper manufacturers of the State was held at Stanwix Hall, Albany, on Tuesday last. R. T. Smart was chairman, and C. E. Bingham acted as secretary. A committee, consisting of Horton Harder, A

Schoonmaker, F. Wiley, and Harper W. Rogers, reported that they had conferred with manufacturers throughout the State, and 75 per cent. of the total production had signed an agreement to close down their mills and to run only fourteen hours per day for six months, commencing August 1. The report of this comof the principal commission dealers of this city have also signed the following agreement:

"The undersigned dealers in straw wrapping paper in New York, believing the production is in expens of demand, and that unremunerative prices must continue with over-production, desiring to co-operate with the manufacturers, do hereby agree that we will neither purchase, receive on consignment, take on storage, or become in any way interested in the product of any manufacturer who may violate su ment, so soon as the proof of such violation is presented to us by a committee appointed by such manufacturers to make the investigation while such agreement is in force. Joseph Hayward, Samuel H. Cornell (for Cornell & Co.). Chas. J. Cave, D. D. Tompkins & Co., Craft & Bingham.

The effect of this action is already to be seen in an advance in the price among the dealers of from 10 to 15 per cent.

The movement on straw wrapping has set in much earlier at Chicago than last season, and stocks on hand are much smaller. The Consolidated Paper Co. reports sales very active for the time of year, and predicts a strong fall trade. The course of this company seems to be giving general satisfaction to the manufacturers,

Changes, Removals and New Firms.

Mitchell Brothers, paper manufacturers, Palmyra, Mich., have dissolved partnership.

William A. Miller, publisher of the Reporter, Greenville, Ky .. has sold out to Dixon & Stor-

Gregory & Staiger, printers, Chicago, Ill., have dissolved partnership. C. M. Staiger suc-C. H. Henry, publisher of the Trade Review,

Cleveland, Ohio, has sold out to George C. John F. Porter, publisher of the Courier Beaver Falls, Pa., has sold out to Van Horne &

George A. Olney, stationer, 25 Murray street this city, has taken Robert McFeeters and A. Hanabergh into partnership, the firm style being Olney, McFeeters & Co.

#### Failures.

Beebe & Elkins, booksellers, &c., Akron, Ohio, are in the hands of a trustee, and are offering to compromise at fifty cents on the dollar.

William A. Morrison, leather board, 126 Sum mer street, Boston, has liabilities of \$4,381.58 (\$2,952 secured;) unincumbered assets slight He proposes to pay 10 cents on the dollar.

Joseph L. Patten and Albert J. Burt, composing the firm of J. L. Patten & Co., publishers on Barclay street, made an assignment on Fri day last to Charles E. Baker, connected with the Independent.

A meeting of the creditors of A. W. Lover ing, bookseller, of Boston, was held in that city last week, and Samuel Johnson, Charles A. B. Shepard and W. H. H. Andrews were elected assignees. These gentlemen, after qualifying. will at once enter upon the discharge of their duties and settle up the affairs of the bankrupt.

The schedule of Robert and Andrew McFeeters, mposing the firm of McFeeters & Co., filed in the Clerk's office, shows liabilities of \$9,784.34, with a contingent liability of \$7,932 64, claimed to be due to Nagle & Co., of Philadelphia, which is now in litigation; nominal assets, \$7, 529.93, and actual assets of \$4,382.35. Among the creditors are G. H. Whitcomb & Co. Worcester, Mass., \$5,504.51; Riverside Paper Co., Holyoke, Mass., \$1,616.61; Collins Manufacturing Co., North Wilbraham, Mass., \$587.19; Hurlbut Paper Co., South Lee, Mass., \$503.07; Owen Paper Co., Housatonic, Mass., \$852.51; H. Garfield, Lee, Mass., \$141.64; Chaffee & Hamblin, East Lee, Mass., \$120.62; R. Mortimer, New York, \$120.62; and to other parties for various amounts under \$100.

#### Chattel Mortgages.

[In the appended list R. signifies a renewal of pre-existing mortgage; b. s., bill of sale; and real, mortgage on real estate.]

NEW YORK CITY.

Mortgagor. A	mount.
J. Mackey (R)	\$1,891
NEW YORK STATE.	
J. J. Pusey & Co	250
EASTERN STATES.	
Geo. H. Rich, Boston, Mass	290
A. S. Burbank, Plymouth, Mass	4,000
WESTERN STATES.	
F. W. Streich, Chicago, Ill	2,000
Geo. C. Davis, Cleveland, O	1,050
J. A. Pittman, Cincinnati, O. (R)	150
Iowa Printing Co., Des Moines, Ia. (Real)	5,500

Note.—It is stated that the chattel mortgage noted against John C. Parker, Washington, D. C., last week, is a trust executed to secure the balance of an old indebtedness under an assignment made on May 12, om which assignment Mr. Parker has

### Fires.

Walker's rag factory, at Montreal, was damaged by fire on Monday to the amount of \$15,000. Spontaneous combustion is supposed to have been the origin of the fire.

The paper mill of Bulkley, Dunton & Co., of New York, at Bancroft, Mass., was entirely destroyed by fire about noon on Saturday last, together with a portion of the stock. loss is estimated at \$30,000, which is covered by surances to the extent of \$23,000. The cause of the fire is unknown.

On Sunday, July 13, about noon, the lower mill of the Cleveland Paper Co., located near the Broadway crossing of the Atlantic and Great Western Railway, at Cleveland, Ohio, was very nearly destroyed by fire. The origin of the fire is unknown, but it was first discovered in a pile of dressed calico rags in the third story, by the watchman, who had just been eating his dinner in the engine room. From there the fire spread rapidly to the middle floor and to the large warehouse in the rear. On the second floor below where the fire originated were the rag engines, and on the ground floor was the baling apparatus, the machinery of which was more or less damaged by fire and water. A large amount of stock was saved. The main items of damage are as follows: Damage to building, \$25,000; three rag engines destroyed and a fourth damaged, \$3,000; two cutters and dusters, \$800; shaping hanger, \$800; hoisting machines, \$700; damage to belting, \$1,000; damage to draining room, \$5,000; steam pipes, \$1,000. Had the fire reached the main machinery the oss would have been much greater, as each machine is valued at \$10,000. The stock stored in the warehouse, which caught fire, was valued at \$11,000. The machine shop, engine and boiler rooms are undisturbed. The lower mill was almost exclusively devoted to the manufacture of the paper used in printing the daily newspapers of Cleveland, although book and writing paper was manufactured in small quantities. The fire will, of course, inconvenience the company considerably, but it will not delay it to any great extent in filling orders. The paper for newspaper work will be temporarily manufactured at the company's mill on Forest street,

and other orders will be filled at the mills in Massillon, Canton and Monroe Falls. The machinery destroyed was valuable, but not as much so as the main machinery of the mill, which escaped damage. Eighty men and one hundred and forty-five women, who were regularly employed at the lower mill, are thrown out of employment for a time. The company will pro ceed at once to rebuild and hopes, to resume business in the new structure by the first of next month. The insurance on the building, machinery, and stock amounts to \$45,500.

#### Personals.

J. C. Parsons, of Holyoke, Mass., is at Sara-

W. A. Edwards, bookseller and stationer

Richmond, Va., is dead. A. W. Esleeck's family, of Holyoke, Mass.

ars at Westbrook, Conn. James H. Newton and family, of Holyoke, Mass., go to Block Island.

The trade will be glad to learn that Charles H. Tooker, of Kiggins, Tooker & Co., who has been so long confined to his house by sickness, is again able to attend to business.

Joseph Sutphen, of H. C. Hulbert & Co., has gone on a brief vacation of a week or ten days among the Berkshire Hills and to the Narragan-

James Hart, Holyoke, Mass., formerly a papermaker in Whiting's Mill, died of cor last week after a lingering sickness. He leaves a family of four boys.

S. J. Harvey, employed in the bleaching room of Hollingsworth & Whitney's Mill, at Water-town, Mass., was prostrated by the heat on Tues day forenoon and removed to his home. He is expected to recover.

Alexander Cameron, of Anderson & Cameron, the well known lithographers and stationers of Fulton street, has joined the large number of Benedicts. The ceremony consummating this event occurred at Boston on Wednesday, July The bride, Miss Anna S. Osgood, a native of Hanover, N. H., and a resident of Boston, is well known as an elocutionist and professional reader, and has gained for herself quite a reputation as an elocutionary teacher. Her public readings were generally for the benefit of charitable institutions. The congratulations of the trade generally are extended to the happy pair, and more particularly to the bride.

George Krebs, whose name was erroneously given as John Krebs, and whose disappearance was reported last week, was a Prussian by birth, and entered the service of the Ivanhoe Manufacturing Company at Paterson, N. J., in 1857. He was of a very saving disposition, and was esteemed by his employers, and thought to be trustworthy. He left the mill suddenly last week, having by some means found out that the company had been informed that he had been robbing it. He went to work as usual at half-past seven A. M. on Thursday morning, but walked out again at half-past eight and never returned. is believed from what can be learned from Paterson brokers with whom he changed his available notes and paper into gold, that he took with him about \$25,000. When the manager of the mill forced an entrance into his house the room were found filled with a great variety of goods stolen from the mill, including felts, paints, oils, chemicals, colors, brass, copper and other valuable material. There were five truck loads, and all was carted back to the mill. The property left behind by Krebs, consisting mainly of real estate, valued at \$20,000, was all placed in the hands of his sister, in trust. It has been ascertained that he has sailed for Europe

### In Town.

J. T. Outterson, Sandy Hill, N. Y.; C. H. Delano, Ticonderoga, N. Y.; C. S. Wheelwright, Providence, R. I.; Ed. McCready, Philadelphia Pa.; William McCready, Lambertville. N. J. I. W. McDowell, Lambertville, N. J.; E. R. Solliday, Lambertville, N. J.; J. H. Appleton. Holyoke, Mass.; G. W. Wheelwright, Jr., Boston, Mass : L. C. Woodruff, Buffalo, N. Y . C. T. Plunkett, South Adams, Mass.; G. L. Wright, Mittineaque, Mass.; L. Richards. Unionville, Coun.; E. B. Ripley, Unionville, Conn.; O. Woodworth, New London, Conn.

### SPECIAL NOTICES.

[Insertions under this heading will be charged 50 cents a line. Payment invariably in advance.]

FIFTH EDITION. Now Ready. LOCKWOOD'S

## DIRECTORY Paper Trade.

This Directory contains a full and detailed description of every Paper Mill in the United States and Canada.

This Directory is octavo in form, is printed on the finest book paper, handsomely bound in cloth, and as a work of reference is indispensable to every Papermaker, Paper and Paper Stock Dealer, Stationer, or any one connected with the trade.

LOCKWOOD'S DIRECTORY is the only STANDARD authority of the kind, and is constantly consulted by the Trade in all parts of the country.

PRICE, - - - \$2.00.

HOWARD LOCKWOOD,

Publisher. 74 DUANE STREET, N. Y.

#### JOHN L. TAVLOR

Importer of Rags, Waste Papers and Jute Stocks. All grades on hand and to arrive at lowest prices.

No. 60 DUANE ST., NEW YORK.

### Market Review.

OFFICE OF THE PAPER TRADE JOURNAL, FRIDAY EVENING, July 18, 1879.

THE MONEY MARKET .- The money market has continued in the same easy condition as noted last week, and the demand at the close was unusually light. The Government bond dealers supplied their requirements at 11/2@2 per cent. and borrowers on pledge of railway and miscellaneous collaterals at 21/2@3 per cent. Prime mercantile paper was in fair demand at 81/4 @41/4 per cent. The rates ruling for commer cial paper are as follows: 60 to 90 days' indorsed bills receivable, 316@4 per cent.; 4 months' acceptances, 4@41/2 per cent., and good single names, 4 to 6 months, 5@6 per cent. Double name sixty-day paper is 31/2@4 per cent.; double name four months, 4@41/2, and first class single name, 5@6.

Government bonds were firm, and coupon 5's advanced 1/4 per cent., selling at the close at 104% The principal business was in new 4's, the closing transactions in which were at 102. Railroad mortgages were actively traded in, and in many instances a further advance in prices was established.

The non inal rates of Sterling Exchange remain unchanged. The business transacted was light in volume, and lower rates prevailed at the close than on any previous day of the week.

The posted rates to-day are: Sterling 60 days, \$4.861/4; sterling, sight, \$4.881/4; cable transfers, nominal, \$4.89@4.89½; commercial sterling, prime long, \$4.85@4.85½; documentary sterling, 60 days, \$4.841/4@4.84; Paris, bankers', 60 days, \$5.19\( a5.17\( \); do. sight, \$5.17\( a5.15\); Antwerp, bankers', 60 days, 5.20\( a5.18\( \); do., sight, 5.171/6.05.161/4; Swiss, bankers', 60 days, 5.19% @5.18%; do. sight, 5.17% @5.16%; Reichsmarks (4), bankers', 60 days, 95@95¼; do., sight, 95½@95¾; Guilders', bankers, 60 days, 401/4@40%; do., sight, 401/4@40%, and Paris dis patches quote exchange on London at 25 fr.

The foreign advices report that United States onds were unchanged for 4's at 104%, and 1/8 higher for 41/2's and 5's at 1091/4 and 105% respectively. The Bank of England rate of dismains at 2 per ceut., but money is accessible in the open market at much lower figures.

THE PAPER MARKET.-Although business enerally is quite dull, and we are in the midst of the most inactive period of the year, trade is very fair when these circumstances are considered. The extreme hot weather during the present week has driven a great many busine men from the city, and has lent a depressing influence to buying and selling. The mills in most every locality are reported to be running full on orders, and so busily engaged that in some instances the owners refuse to shut down to make needed repairs, and we hear of cases where dealers have had difficulty in getting orders executed at the mills for some special lots. There are few mills where this condition of things does not exist, and those which are not running have been compelled to stop to make repairs, and not for the want of business. While the condition of trade for the season of the year is fair, and probably above the average, a very promising prospect for the future is everywhere predicted, and all indications point to its realization. Fine Writings move in the same moderate but steady manner before spoken of. The export movement in these is being car ried on to an extent that gives much enco ment, and which, if not very active, yet is regu lar and is gradually expanding. We hear of, among others, a shipment of 12 or 15 cases Fine Papers to a South American port during the week by a city dealer. For local account the operations in Book Papers remain limited, and Extra Machine Finished of low grades receive the most inquiry. The market for News continues somewhat steady in the line of demand, but prices are low and irregular. In ordinary Wrapping Manillas, and, in fact, for very nearly all varieties of Manillas, trade at this time, although light, has more than an average movement for the season, and prices are stiffening up, owing to the enhanced prices the manufacturers are compelled to pay for all classes of Jute Stock No actual advance has yet taken place, but the manufacturers are agitating the subject. Flour Sack and Hardware Manillas are in only tolerable call, while prices are relatively very low. We quote the range of prices for Ordinary 3½c.; Hardware, Light Colored, 13½@14c.; Hardware, No. 1 Glazed Tarred at 7½@8½c., and Hardware, No. 1 Glazed at 6@61/c. Straw Wrappings have advanced here in price during the week from 10@15 per cent., in consequence of an agreement entered into by the manufacturers representing 75 per cent. of the production of the State, at a meeting at Albany, on Wednesday. It has been decided to run only fourteen hours a day for six months, from August 1. The dealers have agreed to co-operate, and the advanced price has been generally required by them on all transactions since. The movement in the West has set in much earlier than last season, and the stocks on hand are much smaller, while the sales for the time of the year are very active. The supply in this market of shipping paper is full, with little or no demand. Grocers' paper from 10 to 15 pounds in weight is in light supply and in good demand. The call for Binders' Boards is oderate, but prices remain the same. Straw Boards the box-makers are about getting ready to lay in stock, and in a fortnight more there will be an increased demand. At present

JUTE BUTTS -There have been no arrivals

the trade is only fair.

tors had reached a point where they were all cleaned out of stocks, excepting one which has been the largest holder, and which has steadily held its stock above going rates. The late fire at Calcutta, which consumed 10,000 bales, prevents dealers from replenishing their stocks there, as the season is about over at that point, and there will be no quantity of Butts obtainable at Calcutta for several months until the new crop arrives. As a consequence of this position, about 20,000 bales have been taken at New York and Boston, and quotations have advanced to 29-16c, for Paper quality and 2%@ 2%c. for Bagging quality.

WOOD PULP.-There is nothing of interest to add to our last report. The demand for Pulp continues very fair, although a little less ex tended than a month ago, as a number of milis are closed for repairs. Combination Pulp is yet nominally quoted at 3c., at which price it is said a number of car-loads have been delivered during the week. Non-combination is sold at 21/c.

FOREIGN RAGS AND PAPER STOCK .-The market still continues very dull and devoid of any important transactions Linens have not moved with any greater freedom, and the aggregate of the small transactions is only a very moderate quantity. Prices of these, and in fact of all foreign stocks, except jute, favor buyers. The exports to the United States from Leghorn for the month of June were only 607 bales. against 1,613 bales for the corresponding month of last year, and the total for six months from January 1 to July 1 this year, 7,709 bales, against 8,207 bales for the same period of last year, showing quite a falling off. Cottons are still in very limited request, with a very full supply offering. Waste Papers, with the exception of Folded News and Shavings, share in the general sluggish movement. Jute Stocks continue to rule very firm, and the supply is becoming very much reduced. We note sales of 25 tons extra fine Blue Cottons at 2%c., four months; 35 tons extra London Seconds at 2%c., and 60 tons No. 1 Jute Rope on private terms. The arrivals for the week foot up 912 bales Rags, 787 bales Paper Stock, and 78 bales Manillas

DOMESTIC RAGS.-As quiet as the market has been for a number of weeks past it has grown even more so since our last review. With what stock the mills had on hand previously, and the amount offering at their doors, no additional quantity is sought for, and the consumption is even smaller on account of a great many mills having to shut down for repairs, and for lack of water. The movement in all grades of Domestic Rags is exceedingly limited, and no improvement is looked for, at least for several weeks to come. The sales reported include 100 bales No. 2 City Whites at 25/@23/c., and 150 bales City Seconds at 1%@1%c.

BAGGING, &c.-A slightly increased activity is shown in Jute Stock, owing to the advance in Butts. Prices for Bagging, although very firm, have not advanced during the week, and firstclass No. 1 Gunny is held within the range of 21/4.02%c., and No. 2, which is in better supply, is offered at 1%@1%c., with light sales. Manilla Rope is steady and in fair demand. The sales orted embrace 25 tons No. 1 Gunny at 21/4@ 25-16c., 50 tons extra No. 1 Factory Bagging at 21/4c., four months; 50 tons No. 2 Burlaps a 1.85c., and 20 tons Manilla Rope at 2%c.

OLD PAPERS.-in this class of stock there is scarcely anything doing outside of Folded News and Shavings. One large dealer remarked that he had considerable coming in and very little going out, and as for Light Book and Ledger Stock, he was accumulating a large quantity This is quite true of most all the dealers. tations are merely nominal all around. No. 1 White Shavings sell in small lots at 3% @3%c.; Folded News at 1% @1%c., and Pure Manillas at 21/4@21/4c.

STRAW.-Straw continues scarce and in good demand at firm prices. We quote selling prices at New York: 50c.@55c. for Long Rye, 45c. for Short do, and Oat at 30@40c, cash. Prices at the mills have advanced, and contracts for the new crop have been taken in Columbia County at figures ranging from \$8@\$10 per ton.

ROSINS.-There has been a little inquiry fo the higher grades, but Strained has ruled dull, with only small sales. Quotations are un-changed, as follows: D Good Strained at \$1.50; E at \$1.65; F Good No. 2 at \$1.80; G Low No. 1 at \$2.20; H No. 1 at \$2.70; I Good No. 1 at \$3.25; K Low Pale at \$3.70: M Pale at \$4, and N Extra Pale at \$4.20.

CHEMICALS.-The market during the past week was exceedingly dull, and the business very light. As compared with the previous wee Wrapping at 6@7c.; No. 2 at 5@6c.; Bogus, 3@ the only variation in prices was an advance of 214c. in Bleaching Powders and a trifling decline in Prussiate. Sales occurred within the past week as follows: 100 cks. Bleaching Pow ders at 1.25c.; 50 tons Soda Ash at 1.65c.; 50 drums Caustic Soda, 60 per cent., at 3.65c.; 50 tons Sal Soda at 1½c.; 100 berrels Lump Alum (Ammonia) at 1%c.; 100 barrels Ground Alum (Ammonia) at 2c.; 100 barrels Potash Alum at 2c.; 50 cases Concentrated Alum "N. C. F. at 21/4c.; 100 barrels Natrona Forous Alum at 2%c.; 25 tons Aluminous Cake at 1.45c.; 5 cks. Prussiate Potash at 22c., and 10 cks. Bichromate

COAL.-Anthracite Coal has not shown any special activity during the week that has elapsed ince the date of our last review. Saward's Coal Trade Journal says: "The tonnage that is going forward is large and prices are a trifle firmer than they were last month. There is a large quantity of Anthracite wanted, apparently, and while the prices range as they are it may be expected that the demand will equal the supply. The only qualities on which there is a drag are the lighter coals that are so much used for domestic purposes during the fall and winter seasons. It is surprising to find yards of manufacturers and dealers with only supplies on this week. Owing to the active demand which | hand for transient trade, after noting the quanhas prevailed this year, importers and specula- tity that has been forwarded from the mines, as

per the statistical tables. This goes to prove that the consumption has actually increased. Operators expect a much better demand for coal than now exists, in September, October and November, and the only fear is that there may be something serious in the way of labor troubles at that time. Bituminous coal is in steady request, and it is now expected that the aggregate year's tonnage will show an increase over year; but at no profit, or rather a very slight one. We hear of sales that do not net the miner or carrying companies anything like a fair rate upon the actual investment made. Should Anthracite keep going up little by little each month, and start next season on a fair basis of values, Bituminous coal will also appreciate in price, There is a good demand for the Red Ash Coals, in fact, this year's trade is ahead of the last; this in spite of the difference in price as compared with light, free-burning White Ash Coals, There is no change in the position of affairs at the mines where there have been local strikes, and although it is hoped they may resume, by the proprietors, the men easily find work. There is no change in the Pittsburg market; the rains have not made the streams sufficiently high to enable the coal-laden barges to leave their moor-The Eastern trade is not reported as particularly lively for Anthracite." Quotations at tide water are: Lump, \$2.75; Broken, \$2.75; Egg, \$2.80; Stove, \$3.05, and Chestnut, \$2.90.

### PRICES CURRENT.

### NEW WORK WARREN

	NEW YORK MARKET.
	Paper Market.
	DEALERS SELLING PRICES.
	DEALERS SELLING PRICES.   Ledger and Record
	Book, super-sized and calendered 946 15 Book, super-sized and tinted 946 15 Book, extra machine finish, low grade Book, extra machine finish, tinted 846 104 Book, No. 1, Shavings & Imperfections 846 104
	Book. No. 2. Shavings & Imperfections
	News, straw
	Hanging, Buff
1	Hanging Buff
	Manillas, Flour-sack, drao. 10 G 11 Manillas, Rope, unbleached 10 G 12 Manillas, No. 1, light weight. 8 G 9 Manillas, No. 1, heavy weight. 7 G 8 Manillas, Ordinary Wrapping 6 G 7 Manillas, No. 2
	Manillas. Bogus. 346 — Tissue Manillas, full count, weight and size, lix ils. other sizes in proportion 19 © 28 Hardware, light colored 14 6 — Hardware, No 1, glazed, tarred 8 6 8
	size, 11 × 15, other sizes in proportion 19 @ 32 Hardware, light colored
6	Straw Boards, air-dried, Penn, W ton 40.00 @ 42.50
8	Straw Boards, air-dried, State, \$\overline{0}\$ ton 40.00 \$\overline{0}\$ 42.50 Straw Wrapping, basis, 15 × 20, 10 \$\overline{0}\$, 20 sheets—
t	90 - 40
r	00 - 90 from 16 the to 05 the 10 plan 90 d
	20 × 30, from 16 lbs. to 25 lbs. \( \mathbb{P} \) r'm. 30 \( \overline{4} \) 45 \( 18 \times 25 \) \( \overline{4} \) 36 \( \overline{4} \) 38 \( 18 \times 25 \) \( 18 \times 25 \) \( 18 \times 25 \) \( 18 \times 26 \) \( 18 \times 26 \) \( 18 \times 26 \) \( 14 \times 18 \) \( 18 \times 25 \) \( 14 \times 18 \) \( 18 \times 25 \) \( 18 \times 26 \times 26 \) \( 18 \times 26 \times 26 \) \( 18 \times 26 \times 26 \times 26 \) \( 18 \times 26 \times 26 \times 26 \times 26 \times 26 \) \( 18 \times 26 \time
1	18 × 24 15 × 20, from 8 Ds. to 25 Ds. \$\mathbf{y}\$ r'm. 15 @ 25
t	14 × 16 13 0 13 0 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15
	I Tom I where I to smoot diffica-

	Straw Wrapping, 9 D. Tea Papers, 16-sheet quires—	1%	
	12 × 18	86 G	_
	Woolen Rags.		
	Comforter Stock White Woolens. Blue Grey Stockings. White Stockings Blue Flannels Reds, old Reds, new Shirt Clippings Mixed Softs, free of Carpets Seamed Cloth Skirted Cloth Light Skirted Cloth New Dark Clips New Light Clips New Blue Clips New Blue Clips New Blue Clips New Fancy Shirt Cuttings New Fancy Shirt Cuttings New Fancy Linsey Cuttings New Fancy Linsey Cuttings New Satinets, clean stock Seams and Satinets	13	1 1 1 1 1 1 1 1
	Black Shoe Lastings	2140 2140	
	Blankets Wool Carpets Mixed Carpets White Linseys Mixed Linsevs	4140 1 00 2140	
	Rags, Rope and Baggir	- 10	
1	White Shirt Cuttings No. 1		

	Rags,	Ro	pe	and	Baggir	ng.	
te Shirt	Cuttin	gs, 1	No.	1		6 @	614
e Shirt	Cuttin	28. 1	Vo.	2		5 @	51.4
Assorte	d Whit	. 89				111600	482
eached	Muslin	18				5120	584
Whites Canton	******				*******	11/40	482
Canton	Flann	els.				5140	512
Cotton	Strips	. 112	ht.			6 0 .	
Cotton	Strips	, da	ric.			4140	436
, White	8					2340	8
on Canv	88					414@	416
n Canva	18		*.*		*******	4160	414
try Wh	ite Ka	gs.,				436@	456
try Mix						1160	214
nds (Cit	00.7	245				1940	136
rs, per 1 lla Rop	00 10		***			90 @	70
lla Rope	a famo	A	***			294 Co	- 13
y Bagg	eine N	ou			*******	214@ -	
y Bagg	ing N	0. 1			* ** **	274 @	298
noky R	ring, 14	de Me			* * ****	194 @	426
						21600	494
Shaking	g .	****					4/4
p Twine	Stock	***		****	******	1360	129
p Twine Waste					******	18/0	278
						A74 (C)	-
					9 Wh		

Shavings and Old Paper.		
te Collar Cuttings, muslin lined .	31600	
te Envelope Cuttings	1 0	
d White Shavings, No. 1	3760	
	3140	
ed Shavings, part white	2140	
ger and Writing	81/10	
1 Stock	282 6	
k Stock, ordinary	2 0	
k Stock, No. 1, light	1140	ì
Manillas	1 @	
Manillas	11 62	

230		
Binder's Board Cuttings Straw Board Cuttings English Rags, &c.	1 @ 60 @	65
New Cuttings, cotton Essex Fines London Fines, cotton Outshots, cotton Seconds Light Prints Light Prints Light Prints Light Prints Light Prints Self First Cances Light Prints Second Cances First Canvas Linen Second Canvas Linen Black Bagging, No. 1 Gunny Bagging, No. 2 Mixed Bagging, No. 2 Mixed Bagging, No. 1 Rope, Manilla Rope, Manilla Rope, Manilla Ropes Jute Threads  English Old Papers and Si	41400000000000000000000000000000000000	374 374 3 3 3 274 276 274 414 3 196
Hard Shavings, No. 1 Soft Shavings, No. 1 White and Colored Shavings, No. 1. White and Colored Shavings, No. 2. Cream Shavings, No. 2. Cream Shavings, Apper-collar Cuttings, Ledgers, Briefs and Letters Newspapers and Pamphlets, extra Old Newspapers Broken News and Letters New Books, Solid Folios Old Blank Books, Brown Papers White and Buff Railway Sheets Railway Tickets	314 @ 326 @ 314 @	1544
Hamburg Rags, &c. Linen Cuttings. SPFFF, square bale. SPFFF, long bale. SPFFF, long bale. SPFS, square bale. SPF, square bale. FF, square bale. LFX, square bale. LFX, square bale. LFB, long bale. Gunny Bagging, No. 1 Surlap Bagging, No. 1	614 @ 576 @ 576 @ 514 @ 436 @ 314 @ 44 @ 24 @ 24 @	7 6 - 59, 424 - 39, 436 4 - 236
Shirt Cuttings, square  CS P F F F, square bale.  CS P F F F, square bale.  CS P F F, long bale.  CS P F F, long bale.  CS P F F, long bale.  CS P F, square bale.  CS P F, square bale.  T R, square bale.  CF R, square bale.  CT F, square bale.  CT F, square bale.  CT F, square bale.  Cotton Canvas  Rope.		434 414 376 336 234 234
T R (tarred) W R (white) M R (manilla) Old Papers.		= 234
Old Book Paper Old Printed Books Imperfections White Shavings Colored Papers Writing Papers	294 Q 294 Q 8 Q 114 Q	3 3 8 1
Leghorn and Genoa R. P. P., No. 1 Linens S. S. No. 2 Linens S. S. No. 2 Linens T. T. No. 3 Linens P., No. 1 Cottons S. No. 2 Cottons T. No. 3, Cottons T. No. 3, Cottons R. R. linen stripes R. ordinary stripes R. C. C. S. C.	54466666666666666666666666666666666666	514 414 414 514 214 114
Alexandria Rags. Whites Blues Colors	21/4 (0) 21/4 (0) 2 (0)	21 <sub>4</sub> 21 <sub>4</sub> 21 <sub>4</sub>
8 P F F S P F F F F F F F F F F F F F F F	4 6	
8 P F. S F F. S F F. S F K. S F B. Konigsberg Rags.		=
8 P F F. 8 P F. F F. L F B.	474 G	534
Whites Japanese Rags. Blues Colors Chemicals, Coloring Mater	2 G	294 214 214
Alum, Jump Alum, ground Alum, ground Alum, porous Alum, porous Alum, porous Alum, porous Alum, potash Alum, potash Aluminous Cake, Pochin's Patent Aluminous Cake, "Elephant," Anti-Chlorine Bi-Chromate Potash, Scotch Bi-Chromate Potash, American Bleaching Powders Clay, China, English, per ton. Clay, China, English, per ton. Clay, China, English, to arrive, per Clay, China, English, to arrive, per Clay, Terra Alba English per ton. Clay, Terra Alba, American, Prussian English per ton. Clay, Terra Alba, American, per ton. Clay, Terra Alba, Cangla, per ton. Clay, Terra Alba, Per ton. Clay, Terra Alba, Per ton. Clay, Terra Alba, American, per ton. Clay, Terra A	1.45 @ 1.50 @ 1.	_
Sigar Lead, white Sigar Lead, brown Sulphuric Acid, 60 degrees. Sulphuric Acid, 60 degrees. Ultramarine Venetian Red, American Venetian Red, English Vitriol, blue Yellow Ochre.	15 G 714 G 114 G 114 G 25 G 114 G 114 G	
BOSTON MARK Paper Stock.	ET.	194
Mill Assorted Whites	4960	436

DODLOIT PERE	
Paper Stock.	
Mill Assorted Whites	
The state of the s	

	THE	Ъ	A	F
	Mixed Shavings (¾ white)	. 340	8	1
	Book Stocks	3 @		
0	Book Stocks Light Prints Manilla Envelope Cuttings, new Manilla Papers cl3 Hardware and Manillas Straw Board Cuttings Linen Canvas, No. 2 White Shirt Cuttings Country White Hags Country Mixed Rags Country Mixed Rags City Whites, No. 2 Seconds, Country Colors	1140	214	
í	Manilla Papers, cli	1160	2/4/4	
6	Hardware and Manillas	. %@	139	
ŝ	Linen Canvas	. 436@	499	
	White Shirt Cuttings	534 3	31 <sub>4</sub>	. 2
í	Country White Hags	4980	496	1
6	City Whites, No. 2	314 @ 314 @ 184 @	314	
6	Seconds, Country	134@	314 176	
•	Seconds, Country Colors Manilla Rope Binders' or Tar Board Cuttings	2940	23/6	
,	Common Papers	40	1	
	Oakum Junk	2160	294	
	Leghorn Rags.		- 74	
	P P No. 1 Linens 8 S, No. 2 Linens. 1 T, No. 3 Linens. P, No. 1 Cottons. S, No. 2 Cottons. T, No. 3 Cottons.	. 5 @	514	1
	S S, No. 2 Linens	5 @ 334 @ 344 @	414	1
6	P. No. 1 Cottons	4 @	444	
	S. No. 2 Cottons	3740	344	1
	Alexandria Rags.		-/-	1
	Whites	240	296	
i	Whites. Blues	21/8/3	234	
6	Smyrna Rags.			
	Whites	23/6/0	284	1
	Reds	2140 2140	214	1
3	Whites Bues Reds Mixed	40	14a	li
í	Constantinople Rag	96.	-26	1
l .	Whites	214 @ 214 @ 2 @	291	
i	Reds Mixed	2 @	234 13a	
	New Papers.	740	. 74	1,
	Superfine Book	934 23	13	
			934	18
	News, Straw	6 6	634	1.
	News, No. 1, all rag	12 64	13	1 8
	Manilla. No. 2 Rope	9 @	1014 716 616	i
	Manilla No. 1 Bagging	5%4@	636	li
i	News, Itags and Wood. News, Straw News, No. 1, all rng Manilia, Cream, No. 1 Rope. Manilia, No. 2 Rope. Manilia, No. 2 Ragging. Manilia, No. 3 Bagging. Bogus Manilia Straw Wrapping. Hardware, No. 1 Hardware, No. 1 Hardware, No. 2 Hardware, Riazed. Straw Boards, air-dried, \$\psi\$ ton Straw Boards, steam-dried, \$\psi\$ ton Straw Boards, \$\psi\$ ton Leather Board, Common, \$\psi\$ b Leather Board, counter Leather Board, extra	416@	516	
	Hardware, No. 1	8 6	*	
1	Hardware glazed	8160	7	-
	Straw Boards, air-dried, p ton	45.00 @	5U 00	1 -
	Binders' Boards, W ton	50.00 @	100,00	1
	Leather Board, Common, & b	41600	10	1
	Leather Board, extra	10 @	14	1
1	Chemicals.			1
	Aluminous Cake, currency	11/4 (A) 17/4 (A) 2 (B) 2 (B)	134	18
	Alum, English ground	2 0	21/6	1
	Alum, American ground	1760	218	8
	Aiun., Potash	340	296	18
1	Aluminous Cake, currency Alum, English lump, \$\color{b}\$ b Alum, English ground Alum, English ground Alum, American ground Alum, American ground Alum, Potash Anti-Chlorine Bi-Chromate Potash, Scotch Bi-Chromate Potash, American Bleaching Powders Blackley Blue Caustic Soda, \$\cdot{b}\$ cent. Cay Scoda, \$\cdot{b}\$ cent. (for \$\cdot{b}\$) \$\cdot{\cdot}{\cdot}\$ cent. Clay, English, \$\cdot{\cdot}{\cdot}\$ to \$\cdot{c}\$.	11160	334 1156	1 8
1	Bi-Chromate Potash, American	11.48 @	1195	1
	Blackley Blue	4.50 @	5,00	i
	Caustic Soda, #0 P cent	3 35	3 45	1
	Clay, English, P ton	16.00 @	18.00	li
ı	Clay, English, extra	11.50	21,00 18,00	1
	Clay, American, # ton	1 @	1178	9
	Lime, common, bbl	1.00	1.75	10
1	Extract Logwood Lime, common, \$\pi\$ bbl Prussiate Potash, American	62 @ 21 @	65	1
			137	1 1
	Rosin, No. 2 Rosin, No. 1 Rosin, pale	1%@ 2½@	23/8	١,
	Rosin, pale	3140	290	
	Sal Soda. Eng., W.D	1.05 @	1.10	1 8
1			194	10
	Soluble Blue Sugar Lead, White Sugar Lead, Brown	15160	1616	i
			816 134	I
	Terra Alba # ton	15.00 @	20,00	1.1
	Ultramarine, W. N. G. brand	25 <b>@</b>	96 25	1 8
	Terra Alba W ton  Ultramarine, W R  Ultramarine, W. N. G. brand  Venevan Red, & D	1160	156	1 8
	Vitriol, Blue	-74-0	134	1
1				1 8

### FOREIGN MARKETS.

London Market Report.

London, July 5, 1879. There has been no important change during this week. Home consumers are still busy taking their stock, and but few forward contracts for home trade have been closed, while exporters have been more active, both for early and for forward shipments.

RAGS.-Prices of strong middle-classed Linens are well maintained, especially strictly assorted marks are well inquired for, and a good many transactions have transpired. Fine Linens and Cottons are finding buyers at previous figures.

HEMP, BAGGING, ROPE, GUNNY, &c.-Owners have decided to meet buyers to some extent, and a brisk business has been done for exportation at slightly reduced prices, while for home trade only few orders have been booked.

WASTE PAPERS.-Prices are somewhat unsettled and for exportation some transactions, for considerable quantities, have transpired.

### Advertisements.

# CORLISS ENGINE BUILDERS,



GUARANTEED THE BEST ENGINES.

BOILER MAKERS, ROTARY BOILERS and TANKS,

WOOD CHIPPERS. ROBT. WETHERILL & CO., Chester, Pa.

W ANTED .—A FIRST CLASS MACHINE-tender for Roofing or Wrapping Paper. Ref-erences required. Address W., office Paper Trade Journal.

WANTED.-A MACHINE TENDER, MUST BE VV competent to run first-class paper of even weights. Apply to the UNIVERSAL PAPER CO. (LIMITED), Chatham Village, Columbia Co., N. Y.

W ANTED.—FOREMAN'S SITUATION IN
Book, News, Straw, Print, Manilla or Colored
Mill, by a thorough competent Paper-maker, well
posted in wood and straw pulp. Long experience
as foreman; got charge of mill now; man of family;
sober and steady habits. Best of references given.
Address FOREMAN, office Paper Trade Journal.

WANTED.—SEPTEMBER I, 1879, FOREMAN and two machine tenders. Address, with references, and state compensation wanted, HILLS references, and state compe PAPER CO., Delaware, O.

#### FOR SALE.

Four Iron Dryers, 43 in, on face, 15 in, in diameter. Three Iron Dryers, 33 in, on face, 28 in, in diameter. Two Iron Dryers, 35 in, on face, 14 in, in diameter. One Stack of Calenders, 34 in, on face—Two 12 in lameter, Five 7 in, diameter, solid.
One Daniels Rag Cutter, 9-in, knife, in good order. Lot of 30-in, Felt Rolls.

JOS, STELWAGON'S SONS, 525 Commerce St., 525 Commerce St., Philadelphia, Pa

mmerce St., Philadelphia, Pa.

POR SALL.—PAPER MACHINERY. Tw. sets Press Rolls, one Stack Calenders, Reels and Continuous Feed Cutter, for a 42-inch Pap-Machine. Also four Engine Rolls, 37:30 inches, with stands and lighters complete. Will be sold cheap. Apply to ADAMS & CO., Chagrin Falls, Ohio.

SITUATION WANTED. - A YOUNG MAN with excellent references desires a situation as engineer and fireman in a paper mill. Can do his own repairing. Wages low. Address DUNCAN, office of this paper.

#### FOR SALE

A SET OF CALENDER ROLLS, built expressly for Wood Board, equally suitable for Wood, Straw or Lea-ther Board; Rolls, 14x40; Chilled Iron; Frame very heavy, with back gears, counter shaft and pulleys all complete. Will be sold cheap. Apply to

CHASE TURBINE M'F'G CO.,

O PAPER MANUFACTURERS.—I AM MAKing Chilled and Iron Rolls, plain or covered with gun metal or rubber; Paper Rolls; Dandies and Cylinders; Paper Cutters and Knives; Rolls, Knives, Dandies and Cylinders reground, turned or sharpened; Shafting, Pulleys and Gearing; Boilers; Engines; Snatting, Fulleys and Gearing; Boilers; Engines; Pumps; Hydraulic Presses; Bed Plates and Roll Bars; Power, Hand and Hydraulic Elevators. GEO. C. HOWARD, Eighteenth St., N. of Chestnut St., Philadelphia.

PROPOSALS FOR PAPER FOR UNITED STATES INTERNAL REVENUE STAMPS.

TREASURY DEPARTMENT,
OFFICE OF INTERNAL REVENUE.

WASHINGTON, D. C., June 30, 1879.

Sealed Proposals will be received until 12 o'clock of Wednesday, July 30, 1879, for furnishing this Office with such paper to be used in the printing of United States Internal Revenue Stamps during the fiscal year ending June 30, 1880, as may be from time to time ordered.

The paper is to be made of

Sealed Proposils will be received until 12 o'clock of Wednesday, July 30, 1878, for furnishing this Office with such paper to be used in the printing of United States Internal Revenue Stamps during the fiscal year ending June 30, 1880, as may be from time to time ordered.

The paper is to be made of cotton stock, with a suitable proportion of pure linen stock to give proper strength, without clay or other adulterations; and it must be free from thread knots, grid, or other foreign substances: it is to be sized with vegetable sizing (except as hereinafter stated), and calendered sufficiently to admit of wetting it down for plate printing, and subsequently writing freely upon it with pen and ink; but at the same time should possess no greater strength than will be required to insure its printing and mecessary handling. The degree of sizing, calendering and strength is to be such as may be prescribed by the Commissioner of Internal Revenue, with the approval of the Secretary of the Treasury. Each sheet of the paper will be made distinctive by being closely water-marked throughout with the letters "U. S. I. R.," in such manner that each square inch of the sheet shall bear some paper, as to quality, which they propose to fur-ish.

The quantity required will be about two hundred thousand (20,000) pounds, and will be white, plain green, or such other color, not more expensive, as may at any time be prescribed by the Commissioner of Internal Revenue, with the approval of the Secretary of the Treasury, but the coloring-material used must not be such as to be injurious to persons handling the paper. About twenty thousand (20,000) pounds of the paper are to be tub-sized with animal sizing and calendered so that the sheet can be gummed after being wet down and printed.

The paper is to be manufactured under the supervision of an agent of the Government, and, if deemed must be counted, examined, and separated into lots of one thousand (1,000) sheets—each hundred separated by a paper tag, and each lot is to be ied with stron

Bills accruing under the contract will be paid monthly.

Bidders will state in their proposals the price or prices per pound for the paper, deliverable at the nearest railway freight office or steamboat landing, securely packed, in the presence and under the direction of the agent of the Department, in wooden boxes strapped with iron, sealed and marked ready for shipment, all at the expense of the contractor. The prices of the vegetable and animal-sized paper should be stated separately.

The contractor will be required to furnish a new dandy roll for water-marking the paper, unless the one now owned by the Government can be used. Such roll will be manufactured under the supervision of an agent of the Government, and will become the property of the United States.

Each proposal should be accompanied by a written guarantee, signed by two (2) responsible persons.

property of the United States. Each proposal should be accompanied by a written guarantee, signed by two (2) responsible persons, that, if the award is made to the proponent, the contract and the bond will be executed promptly on the making of the award.

Bids will not be considered unless made by persons actually engaged in the manufacture of paper; and the right to reject any and all bids, and to waive in formalities in case it shall be deemed to the interest of the Government so to do, is hereby reserved.

reserved.

The bids will be opened on the date and at the nour named above, and bidders are invited to be

present.

Bids should be indorsed "Proposals for Internal Revenue Stamp Paper," and addressed to the Commissioner of Internal Revenue, Washington, D. C. The quantity of paper usually required per annum is about two hundred and sixty thousand (260,000) pounds; and while the contract will be made to terminate June 30, 1880, it may, by agreement of both parties, be renewed from year to year thereafter.

GREEN B. RAUM, Commissioner. Approved: John Sherman, Sec. of the Treasury.

#### F.N.DAVIS, BELOIT, WIS.,

MANUFACTURER OF

### PATENT Paper Barrels @ Paper Barrel Machinery,

BUILDING PAPER, Heavy Compressed Paper Boards, Of any thickness, perfectly water-proof, finished and decorated in any size and style to order. Steam

**JARVIS** 

### FOR SETTING

PATENT FURNACE

to be had

Economy in Fuel and Increased Capacity. Burns all kinds of cheap fuel without blast.

REFERENCES.

Montague Paper Co., Tileston & Hollingsworth, | Otsego Paper Co., William Russell & Son, Holyoke Paper Co., F. R. Walker.

Send for Circular. A. F. UPTON, Agent, No. 48 Congress St., Boston.

## THE PATENT CONE WASHER



ADVANTAGES OF THE PATENT CONE WASHER:

It will wash faster than any other washer ever put before the public.

It and is guaranteed to increase your washing capacity twenty-five per cent. It requires only one instead of two in an engine for washing rags, and washes much faster, giving better results, which are highly appreciated.

The water is discharged in a solid, unbroken stream, into a cast-iron spout made in connection with the boxes for pinion shaft and drip for pinion gear, all of which are bolted to the side of the Engine, making a very neat and compact arrangement.

It reduces expense of wire covering one-half. It can be adjusted to the amount of water at the hydrant. It will wash papers of fasts as two common weathers, and with two in an engine they are invaluable. It is the best arrangement for washing any kind of stock ever introduced.

These Washers are made complete in the most substantial manner, as shown in the cut, and warranted to do all that is claimed for them. They give universal satisfaction.

The testimonials from the leading paper manufacturers of this country are numerous, a sample of which we insert from the well-known manufacturers, CROCKER, BURBANK & CO., of Fitchburg:

John T. Emerson, Esq.:

DEAR SIR.—We inclose draft, in payment for washers.

The washers are giving excellent satisfaction. Our experience with them leads us to believe them to be the best washers yet introduced. The results obtained by their use must lead to their being substituted for any other washer now in use, when it shall be generally known what canacity they have.

Yours Respectfully.

Yours Respectfully.

Yours Respectfully.

CROCKER, BURBANK & CO.

# HOLLY MANUFACTURING CO.,

# Holly's Steam, Rotary and Pulp Pumps

LOCKPORT, N. Y.

SEND FOR CATALOGUE AND PRICE LISTS.

TO PAPER MANUFACTURERS.

ECONOMY, CLEANLINESS and PERFECT LUBRICATION GUARANTEED BY THE USE OF

CEAR, NECK AND ROLL GREASE. CYLINDER, CALENDER AND ENGINE OILS.

R. J. CHARD, Oil Manufacturer, No. 6 Burling Slip, NEW YORK.

## (Successors to Woodruff & Beach Iron Works),

No. 223 STATE STREET, HARTFORD. - -MANUFACTURERS OF

Improved Steam Engines, Boilers, Rag Boilers, and Special Machinery of all kinds. Light and Heavy Gears, Shafting and all kinds of Mill Work.

### STAMP MILLS AND HOISTING MACHINERY, For Copper, Gold and Silver Mines, a Specialty.

Have on hand Second-hand Engines

WOODRUFF IRON WORKS, Hartford, Conn.

### GEORGE HARLEY,

Importer of California Rags, Anu Dealer in

WOOLEN and COTTON RAGS, and att kinds of PAPER STOCK. 362, 365 & 367 THIRD STREET

between Avenue D and Lewis St., NEW YORK.

# Woodruff Iron Works, Paper Trade Journal No. 74 Duane Street,

NEW YORK.

Estimates Furnished for First-Class Work.

PRICE-LISTS, CIRCULARS, LABELS, AND ALL RIPDS OF

### JOB WORK

Done in Best Style and at Reasonable Prices.

### HOWARD LOCKWOOD,

No. 74 Duane Street, NEW YORK

### GLENS FALLS MarbleLime

The best bleaching Lime known for PAPER-MAKERS' USE.

Osborn & Robinson, AGENTS,

87 Dey Street, N. Y.

W. C. GRAY. H. C. NELLIS.

PIQUA WOOLEN MILLS.

F.GRAY&CO.

FOURDRINIER and CYLINDER

Press Felts and Jackets F for all kinds of Paper.

Especial attention is invited to our FOURDRINIER FELTS for FAST RUNNING ON NEWS, which are unsurpassed.

ALSO, TO OUR

"EUREKA FELT," For Fast Running on Cylinder Machines

Which we have perfected within the last few months, and which is rapidly gaining favor with Paper Makers,

EXTRA HEAVY CANVAS DRYER FELTS, l widths, cut to any length, at Manufacturers' Prices
WE WARRANT EVERY FELT to work well,

and if it does not, it can be returned.

We also manufacture Blankets, Flannels, Stocking
Yarns of all Colors, and Men's Heavy Wool Socks. Also, an Extra Heavy 6-4 Scarlet and White Flannel for underwear, which we guarantee not to Shrink. All the above we offer to Paper Makers at the Lowest Wholesale Prices, in quantities to suit

F. GRAY & CO., Piqua, Ohio.



## J. MORTON POOLE & CO.,

Wilmington, Delaware,

MANUFACTURE

## Chilled Rolls

PRESSES FOR BALING PAPER, RAGS, &c.



Send for Circulars, Price List, Terms, &c., to the Sole Manufacturer, JAMES N. BALSTON (Successor to Ingersoll & Balston.)

Qreenpoint, Kings Co., N.Y.

## WRIGHT'S WATER WHEEL

For Regulating the Speed of Water Wheels.

Patented Nov. 17, 1874, and Oct. 19, 1875.



It is quick and positive in its working, and not liable to get out of order. It has an adjustable speed arrangement by means of which the speed of the wheel may be varied, and a self-acting stop motion which stops the action of the Governor when the gate is entirely raised or closed, so there is no liability of strain, or breaking of gears.

EDWARD WRIGHT & OO., Solo Manufacturers and Patentees, WORCESTER, MASS. Manufacturers of Noiseless Doffer Combs and Water Wheel Governors.

### LOBDELL CAR WHEEL COMPANY.

WILMINGTON, DEL. The Oldest and Most Extensive Manufacturers of Chilled Car Wheels in this or any other Country. EXTRACT OF AWARD ON CHILLED

> ROLLS. The undersigned having examined the product herein described respectfully recom mends the same to the United States Centennia Commission for award, for the following rea This exhibit contains a stack of calender

ing rolls intended to be part of a complete paper machine. These rolls are of cast-iron chilled at the surface in casting, and thereby made hard, like tempered steel. They are separately ground according to a highly im proved plan, and are so true that, when placed together, they bear upon each other through out their entire length. This exhibit has the exceptional merit that the rolls are not only GROUND true but CAST by the exhibitor.

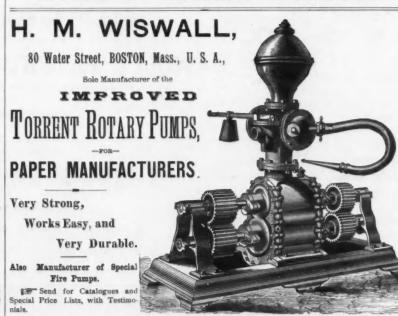
(Signed) JAMES M. WILCOX, Signature of the Judge.

#### ALSO MANUFACTURERS OF ROLLS CHILLED

For Paper Machines, Rubber, Brass, Copper, Rolling Mills, &c.

The vast quantity of iron used daily in the business of this establishment permits the very best selection or the composition of CHILLED ROLLS. The long experience of Mr. Geo. G. Lobdell in making chilled astings, and who personally directs the selection, enables them to make

castings, and who personally directs the selection, enables them to make CHILLED ROLLS UNEQUALED IN QUALITY AND GROUND AS TERFECTLY AS ANY OTHERS W. W. LOBDELL. Sec. P. N. BRENNAN, Treas. GEO. G. LOBDELL. Pres.



#### THE SIBLEY MACHINE

NORWICH, CONN.,

Manufacturers of Modern Improved Paper Machinery.

RAG ENGINES, DUSTERS AND THRASHERS, RAG AND ROPE CUTTERS, ROLL BARS, BED PLATES AND ROTARY BOILERS, HUNT'S TURBINE WATER WHEELS, MILL GEARING, SHAFTING, PULLEYS AND MILL JOBBING.

Castings at Short Notice. In the last twenty-five years having furnished machinery to some of the best mills in the country the subscriber feels confident of giving the best satisfaction. Orders and inquiries for xachinery was receive prompt attention. RUFUS SIBLEY, Agent.

by permission: HUDSON & CHENEY PAPER CO., North Manchester, Cou., Wilhas SON, BROS & CO., Birmingham, Conn., and many others.

Rice, Barton & Fales Machine and Iron Co.

AT OLD STAND OF RICE, BARTON & Co., WORCESTER, MASS.,

## MACHINE

OF EVERY DESIRABLE VARIETY, Castings, Chilled Iron and Paper Calender Rolls, Rag Engines Rag Cutters, Steam Pressure Regulators, &c. HYDRAULIC PRESSES, FROM 5 to 14 INCH PISTON.

THE undersigned, builders of Paper Machinery, offer their services to Manufacturers of Paper, soliciting orders for all Machinery required in Paper Mills. Having unsurpassed facilities for producing Machinery in short time, and with patterns and drawings of the best in use, they offer their customers advantages not usually found. Specially they ask attention to their Rotary Boilers, the journals of which are turned AFTER the heads have been riveted in, thus insuring parallelism of the bearings, a very important matter.



The undersigned also call attention to their CHILLED IRON CALENDER BOLLS which they guarantee to be ABSOLUTELY PERFECT, both as to hardness and excellence of finish.

### THE PUSEY & JONES COMPANY,

TO PAPER MANUFACTURERS.—We beg leave to call your attention to our system of reclosing Screen Plates, under Alexander Annandale's patent for the United States, making old Plates
equal to new ones. We claim superiority of workmanship, at lower rates, over any other method in use
For the efficiency of our system we respectfully refer to:

WARREN, BREWSTER & CO. Minneapolis, Minn., COPSECOOK PAPER CO., Gardiner, Me., ROCHESTER PAPER CO., Rochester, N. Y. MOLINE PAPER CO., Moline, Ill. J. C. BEACH & BRO., Shawangunk, N. Y.

MONTAGUE PAPER CO., Tumers' Falls, Mass., FORT EDWARD PAPER MILL CO., Ft. Edward, N. Y., J. A. BACON, Lawrence, Mass., OTSEGO PAPER WORKS, Cooperstown, N. Y. S. Y. BEACH, Seymour, Com.

ANNANDALE SCREEN PLATE CO., Dale Mill, NATHAN BARNERT, Treasurer.

HENRY C. LOCKWOOD

INGERSOLL LOCKWOOD.

## LOCKWOOD & LOCKWOOD,

Attorneys and Counselors at Law,

GENERAL PRACTITIONERS IN THE UNITED STATES AND STATE COURTS,

128 BROADWAY, NEW YORK.

Particular attention given to Collections, Proceedings in Bankruptcy and Insolvency and Commercial Law.

Patent, Trademark and Lopyright Causes Conducted. Letters Patent Secured.

Trademarks and Labels Registered and Copyrights Entered.

Legal Correspondents in the Principal Cities of the United States and Foreign Countries.

COUNSEL IN THE FRENCH AND GERMAN LANGUAGES.

Circulars giving full information in respect to their system of conducting business, charges, commissions, etc.

#### WM. PICKHARDT & KUTTROFF.

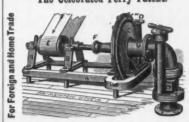
98 Liberty Street, New York.

BRANCHES AT BOSTON AND PHILADELPHIA.

Aniline Colors, Carmine, Pulp Colors, Eagle Brand Ultramarines, N. C. F. Concentrated Alum.

# CENTRIFUGAL PUMPS

The Celebrated Perry Patent.



Use over Fourteen Years by the leading Paper-Makers, Brewers, Tanners and Contractors; for Fire Uses, Excava-tions, Dry Dock and Public Water Works.

WHITE & CLARK, Manufacturers, BALDWINSVILLE, N. Y.

Chemical Broker,

No. 36 BATTERYMARCH ST.,

BOSTON, MASS.

P. O. Box 811.

Bleaching Powders,

Sal Soda, Hyposulphite of Soda, Caustic Sods, English Alum,

> English Clay, Rosin, &c. AGENT FOR

"Excelsior" South Carolina Clay, Phenix Aluminous Cake,

-AND-

WOOD PULP.



The Victor Turbine

Eclipse" Double Turbine.

Catalogues Free STILWELL & BIERCE MANUF'C CO.



133 Pearl Street, New York. BROKERS IN

JUTE BUTTS

REJECTIONS.

P. O Box 5um.

## BRADNER SMITH & CO.

Wood Pulp,

Straw Pulp. FOR BOOK, PRINT & MANILLA PAPERS.

WHOLESALE PAPER DEALERS.

119 Monroe & 2, 4, 6 & 8 Custom House Place, CHICAGO.

## H. PARSONS & CO.

74 DUANE STREET, NEW YORK,

COMMISSION PAPER MERCHANTS

Importers

### PAPER MAKERS' SUPPLIES.

rench and English Linen and Cotton Rags, and Papers of all grades, on hand and to arrivo.

### LEGHORN RAGS

OF THE WELL-KNOWN BRAND







FOR SALE, ON HAND, AND TO ARRIVE, BY J. FABBRICOTTI, No. 34 Beaver Street. New York.

#### P. O. BOX 4554. LEE & STURGES.

COMMISSION MERCHANTS,

23 Beekman Street,

P. O. Box 2,867 FOREIGN RAGS AND PAPERS.

SOLE AGENTS FOR THE CELEBRATED

P of Messrs. John Pfeffer & Co., France and Belgium

## WING & EVANS

DEALERS IN **Soda Ash, Caustic Soda,** Sal Soda, Bi-Carb. Soda,

and Bleaching Powder, 92 WILLIAM STREET, N. Y.

Agents for Newcastle Chemical Works Co. Limited, Newcastle-on-Tyne, England.

### Wood Pulp WET or DRY.

red in any part of the country, in quan-

IRA L. BEEBE,

85 Duane Cor. Elm St., N. Y.

SCALES AND FOAMING.

LYE & ZIMERLE'S Improved Anti-Incrustation Compound

Will prevent or remove Scales, and prevent Foaming in steam boilers. It never fails when directions are followed. It will save its cout in repairs, and more than its cost in cleaning, as the scales will dissolve or drop off, and are thus easily removed. It will save more than its cost in fuel. In writing us give number, kind and size of boilers, kind of water and mineral Send for Circular and Price to

LYE & ZIMERLE, Props. and Mfrs., DELPHOS. OHIO.

#### KENDALL BROS. & GODDARD, Commission Merchants,

HAVE ALWAYS ON HAND AND TO ARRIVE Rags, Jute, Manilla and Paper Stock. Bleach-ing Powders, Soda Ash, Chemicals, Clays, Rosins, Starch, &c. 56 JOHN STREET, COR. WILLIAM, NEW YORK. Correspondence solicited. P. O. Box 8,982.

### SERGEANT BROS.,

78 William St., New York, P. O. Box 3912. HAVE ALWAYS ON HAND AND TO ARRIVE

POREIGN RACS, JUTE AND PAPER STOCK, CHEMICALS, CLAYS, ANIMAL AND ROSIN SIZE.

ALSO AGENTS FOR The Swan Brand Silesian White and H & S Brands Southern Clave

# H.C. HULBERT & CO.,

# Paper-Makers' Supplies.

Stubbins Vale Mills Feltings, Pearl Hardening and Berger Ultramarine. Manilla Sizing, Extra Heavy Canvas Dryers. IS BEEKMAN STREET, NEW YORK.

### PERKINS & GOODWIN, COMMISSION PAPER WAREHOUSE

Supplies. Paper Manufacturers'

SOLE EASTERN AGENTS FOR SHULER & BENNINGHOFEN, OF HAMILTON, OHIO. THE WELL-KNOWN MANUFACTURERS OF

## FOURDRINIER AND CYLINDER WET FELTS, PRESS FELTS AND JACKETS

Extra Heavy Canvas Dryers. 84 DUANE STREET. NEW YORK.

News, Colored and Manilla Papers,

Hanging and Card Middles.

### ALSO REFINED SPRUCE AND POPLAR WOOD PULP,

Suitable for Book, News and Manilla Papers. NEW YORK OFFICE.

PALMER'S FALLS, N. Y. 45 BEAVER STREET

### EXTRA CONCENTRATED

The Richest in Sulphate of Alumina, and 20 per cent. I tronger than the Strongest Alum in the Market. 2 lbs. Pearl Alum will do as much Sizing as 3½ lbs. Potash or Ammonia Alum. CONTAINS NO FREE ACID.

See following from Prof. S. DANA HAYES, Massachusetts State Chemist. Messrs. Harrison Brothers & Co.

Gentlemen;—I have analyzed a sample of "Extra Concentrated Pearl Alux", received from you, with the following results: I find that it contains no free acid, and that there is present 64. Il per cent. of anhydrous sulphate of alumina, which dissolves readily in water. This "Alum" is, therefore, remarkably rich in available sulphate of alumina, and excellent in quality.

(Signed.)

S. DANA HAYES, State Assayer, Massachusetts.

HARRISON BROS & CO.,

Manufacturers of Extra Concentrated Pearl Alum, Lump and Ground Alum, Aluminous Cake, Oil of Vitriol, White Lead, Colors for Paper Makers and Painters, Sugar of Lead and other Chemicals.

Offices: 35th STREET & GRAY'S FERRY ROAD and 105 SO. FRONT STREET, Philadelphia, 123 FULTON STREET, New York. Agents at Boston, E. & F. KING & CO.

ESTABLISHED 1853.

## J. W. LYON & CO.,

RAG WAREHOUSE, No. 35 PARK STREET, NEW YORK,

CORNER CENTRE AND DUANE STREETS. FOREIGN AND DOMESTIC PAPER STOCK AND WOOLEN RAGS OF ALL DESCRIPTIONS.

Cash paid for all kinds of WOOLEN RAGS and PAPER STOCK in large or small lots.

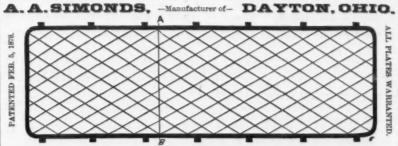
FOR PAPER MAKERS' USE. FREE FROM IRON AND FROM EXCESS OF ACID.

Two pounds of it will size as much Paper as three pounds of Potash or Ammonia Alum.

PENNSYLVANIA SALT MFG. CO.,

140 South Delaware Avenue, Philadelphia. 212 Washington Avenue, St. Louis, Mo.

Agents: W. M. ELLICOTT & SON, Baltimore; MOREY & CO., Boston; E. L. EMBREE, New York.



Engine Bars and Bed Plates for Paper Mills.

The above Cut represents a face view of my SHEET STEEL DIAMOND BED PLATE.
For the production of good pulp in the shortest time, and with the least power, this plate has no equal

## BUTTERWORTH & SMALLEY

54 Beekman St., New York; 58 Federal St., Boston, Mass.,

PAPER STOCK AND SIZING MERCHANTS.

DEALERS IN EVERY KIND OF MATERIAL FOR PAPER MAKERS,

Jute, Hemp and Flax Waste, Papers, Rags, Hemp and Gunny Bagging, Jute Butts, &c. French Linens, Cottons, &c., always on hand. Sizing prepared at our hide yards, Salford.

HEAD ESTABLISHMENT: EDWIN BUTTERWORTH & CO., 2 Ward's Buildings, Deansgate, Manchester, England.

# BULKLEY, DUNTON & CO.,

NO. 74 JOHN ST., NEW YORK.

## EXCELSIOR " FELTS.

FOR ECONOMY, DURABILITY AND GOOD RESULTS THEY ARE UNEQUALED.

LONG ESTABLISHED AND WELL KNOWN. A TRIAL IS SOLICITED FROM MANUFACTURERS NOT ALREADY USING THEM.

EXTRA HEAVY CANVAS DRYERS.

SATISFACTION GUARANTEED.

SEND FOR PRICE LIST

## WM. CABBLE EXCELSIOR WIRE MFG CO.

MANUFACTURE Brass, Copper & Iron Wire,

NCORPORATED 1870.

Making Cylinders & Dandy Rolls,

AND WIRE CLOTH OF EVERY DESCRIPTION.

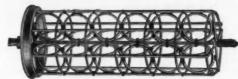
INNER AND OUTER FACES OF ALL NUMBERS ALWAYS ON HAND. Medal awarded Wm. Cabble from the Great Exhibition in New York, 1853, for the finest and best specimens of Composition, Brass and Copper Wire, for the manufacture of Cloth for Paper-makers' purposes, and is recommended for its strength and durability.

Warehouse: 43 Fulton Street, New York.

## SELLERS & CO., Limited,

3919 Powelton Avenue, Philadelphia. SOLE MANUFACTURERS OF

Whitehead's Patent Dandy Roll.



## FOURDRINIER AND CYLINDER WIRES.

Wire Cloth for Washers, Dusters &c. CYLINDERS AND DANDY ROLLS MADE AND REPAIRED.

Lettering and Designing on Dandy Rolls Executed Neatly and Promptly.

IMPORTANT TO PAPER MANUFACTURERS!

## PATENT ROLL GRINDERS

and are prepared promptly to regrind Old Rolls, soft as well as chilled. Manufacturers can rely upon having their rolls ground perfectly, and at a material saving of freight, by applying to

TOWNSEND, JACKSON & CO., Albany, N. Y.

ESTABLISHED 1826.

## LEWY BROTHERS,

German and Russian Linen Rag Packers.

BERLIN and KOENIGSBERG, Germany. New York Office: No. 12 BROADWAY.

## GEORGE WATSON, JR.

(LATE BRAUTIGAM & WATSON)

IMPORTER OF

Paper-Makers' Stock and Materials,

Whitehead's Feltings,

Pochin's Patent Aluminous Cake,

Curtius' Ultramarine

## FOREIGN AND DOMESTIC RAGS.

NOS. 63 AND 65 BEEKMAN STREET

New-York.