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

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alent mechanism, for regulating the relative speed of the knife-shaft, and also the motion of

two cylinders, B B', two paste-rollers, C C', a

feed-slide, G, a revolving-cutter, m2, cam h2 for

imparting motion to the feed-slide, and gear-

wheels $k^a l^a$, for adjusting the motion of the cutter and of the feed-slide to sheets of different

the feed-slide for sheets of different length. 10. The combination, in a pasting-machine, of

Trade Topics.

Machine for Feeding, Pasting and Cutting Paper.

The drawings illustrate a new machine for feeding, pasting and cutting paper, or other fabrics, invented and patented by Gustav L. Jaeger, New York.

Fig. 1 represents a side view, Fig. 2 a longitudinal vertical section, and Fig. 3 a plan or top view.

In this machine the paste-roller works directly in the paste-trough, and is adapted to be moved toward and from the cylinder which carries the web to be supplied with paste, so that it can at any moment be thrown out of contact with the web or the web-carrying cylinder, the lever which serves to move the paste-roller being so arranged that it locks the paste-roller in the re quired position.

When paste is to be applied to two webs at the same time, the paste-rollers are connected to rock-shafts, which receive motion by a single hand-lever, the position of which is determined by a notched plate. A yielding scraper, which is held in contact with the paste-roller by veight or spring, serves to regulate the quantity of paste to be transmitted to the web. The paste rollers work in troughs situated one above the other, and with these paste-troughs is combined an automatic paste-feeding mechanism. The pasteboards to be lined are fed to the machine by a slide, which receives its motion from the shaft of a revolving cutter that serves to separate the webs between the succeeding sheets of pasteboard, the motion of the cutter being made adjustable for sheets of different length. A brush, which is also moved from the cutter shaft, serves to press down the ends of the webs after the same have been cut. The roll which contains the web is placed on two rollers, with or without an endless apron, for the purpose of facilitating the operation of drawing off the web. With these supporting-rollers is combined a trough containing water or other liquid, so as to moisten the web as the same is drawn off from the roll.

In the drawing the letter A designates a frame which forms the bearings for the compression cylinders B B', the paste rollers C C', and of all the remaining working parts of the machine. In this frame is firmly secured a table, D, over which the pasteboard is fed to the compression cylinders B B'. These cylinders are held in contact with each other by springs a, Fig. 1, and they are geared together so that they revolve in the direction of the arrows shown thereon in

In the example shown in the drawing the pasteboard is fed into the machine in sheets; but it may be fed from a roll the same as the

The paper or other material which serves to line the pasteboard simultaneously on both sides is taken from rolls E E', and as the same is carried round the cylinders to their point of contact it is drawn off automatically by the grip of the cylinders, and at the same time both webs are supplied with paste by the action of the paste rollers C C' before they reach the point of contact of the cylinders. These paste rollers run directly in the paste troughs F F', and they are geared together with the cylinders B B', so that they revolve with the same circumferential velocity, or nearly so. With the paste rollers is combined a suitable mechanism for moving them at any moment away from their cylinders or up to the same, as may be requisite. The mechanism which serves to control the position of the paste ists of a rock al aft, f. on wh firmly mounted two arms, d, one on each end; and these arms are provided with holes to receive the shaft b of the paste roller C. When the rock shaft f is turned in the proper direction, the paste roller is raised out of its paste trough, and at the same time moved out of contact with the cylinder B. The mechanism which serves to control the position of the paste roller C' consists of a rock shaft, f1, on the ends of which are firmly mounted two cranks, e, each of which is pivoted to one end of a strap, d1, the opposite end of which is bored out to receive shaft b^1 of the paste roller C'. On the rock shaft f^1 is mounted a hand lever, i, and by moving this hand-lever to the position shown in dotted lines in Fig. 1 the paste roller C' is caused to slide back in its bearings, so that it revolves out of contact with the cylinder B'. The two rock-shafts $f f^1$ are connected by a rod, h^1 , which is attached to one of the arms d by a pivot, g, and to one of the cranks et by a pivot, g1, so that by means of the hand-lever i the sition of both paste rollers can be controlled. This lever engages with notches j j', in the edge of a plate, k, which is secured to the table D by screws, l, passing through slots m, so that the same can be moved towards and from the cylin-

ders B B'. When the hand-lever is thrown in gear with the notch j both paste rollers are brought in contact with their respective cylinders, and retained in this position, and by throwing the hand-lever in gear with the notch both paste rollers are moved away from their cylinders, so that no paste is applied to the webs or to the surfaces of the cylinders in case the webs (or one of them) should have given out. By adjusting the plate k the pressure exerted by the paste rollers against the cylinders can be

The paste

regulated to suit circumstances.

of pasteboard are fed to the machine, so as to leave a small space (see Fig. 2) between the succeeding sheets, allowing the knife to separate the

In order to adjust the machine to sheets of different length, the cog-wheel lo is secured to an adjustable bracket, o^2 , and the cog-wheel k^2 on the knife-shaft is fastened by a set screw or other means, so that it can be readily removed and replaced by another of different

If the speed of the knife is reduced, the feedtroughs F F', from which the paste rolls take slide G has to be set back for sheets of greater

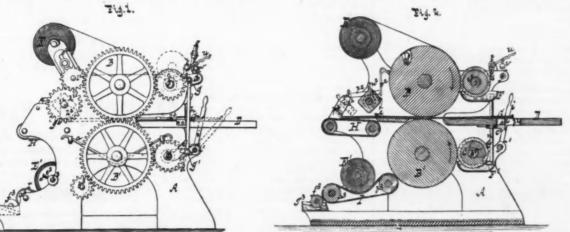
with moisture and the web resting on it is moisttened as it is drawn off. This arrangement is desirable when paper is used that is very hard and stiff. The endless apron may, however, be omitted, and the roll E placed directly upon the rollers a2 b3, said rollers being made sufficiently large for the desired purpose. The moistening-roller f² may also be omitted and the roller a³ so placed that it dips into the liquid contained in the trough g^3 , for the purpose of moistening the web composing the roll E

The cylinders B B' may be used with or with out gripers h3, and in order to be able to use the

11. The combination, with a roll of paper or other material, and with a cylinder to said material is to be delivered, of two rollers, which serve to impart to the roll a slow revolving motion.

12. The combination, with two rollers which support the roll E', of a trough containing water

13. The combination, with a cylinder and with a griper, situated in a cavity in the cylinder, of a protecting-plate, the gripers being so formed that when the same is closed its face, together with that of the protecting-plate, produces an unbroken surface of the cylinder.



their paste, are situated one above the other, and the upper trough F is provided with an overflow pipe, n, Fig 2, which extends down into the lower trough. The upper trough is supplied with paste through a feed-pipe, o, which connects with a suitable supply tank, and with the discharge-opening of this feedpipe is combined a valve, p, which connects by a rod, q, with a float, r, situated in the lower

trough. As the paste rises in the upper trough to a level with the mouth of the overflow pipe n, it discharges into the lower trough until the float r rises to such a height that the valve p is closed. As the paste is consumed the float sinks down, the valve p opens, and a fresh supply is admitted.

By this arrangement both troughs are automatically supplied with paste, and no personal attention is required to this portion of the work. With each of the paste rollers, C C', is combined a doctor or scraper, s, (one only being shown in the drawing), which consists of a strip of india-rubber or other equivalent flexible material, secured in an arm mounted on a rock shaft, t, from which extends an inclined arm, u,

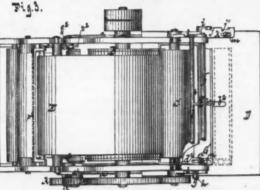
which carries an adjustable weight, e, so that by the action of this weight the scraper is held in contact with the paste roller, and by adjusting the weight the pressure of the scraper on the surface of the paste roller can be regulated, and thereby the quantity of paste transmitted to the web can be controlled.

In the example represented by the drawing a machine is shown in which the pasteboard to be lined is fed into the machine in the form of sheets. The mechanism for feeding the sheets consists of a slide, G, which rests on the table D, and is guided by a pin, a^3 , extending through a slot, b^3 , Fig. 2. A spring, c^3 , forces the slide back to the position shown in dotted lines in Figs. 1 and 3. The forward motion of this feed-slide is ced by a rod, d3, which is attached to it by a screw, e3, extending through a slot, f2, so that it can be adjusted for sheets of different length. On the outer end of this rod is a nose, g^2 , Fig. 1, which is acted on by a cam, h2, mounted on the knife-shaft, i2. This shaft is geared together with the upper cylinder B by cogwheels k2 l3, so that it revolves in the same direc tion as that cylinder, and by the action of the cam ho on the nose go the slide G is drawn into the position shown in Figs. 1 and 2, so that a sheet of pasteboard placed on the slide is de the cylinders between the two webs which extend partially round the cylinders. As soon as the cam h^0 has passed the nose g^0 , the slide G flies back to its original position, while the sheet of pasteboard which has been delivered to the cylinders B B' is carried forward between these cylinders, and the two webs which have been supplied with paste, as previously described, being pressed against the sheet of pasteboard from opposite sides, are caused to adhere to the sheet.

The knife ma is secured to the shaft is, and it co-operates with a stationary cutting edge, n3, Its motion is so regulated that it acts upon the two webs close behind the sheet of pasteboard to which the webs have been pasted, and the sheets

length, and vice versa. Instead of the gear- | cylinders either way, the griper h2 is arranged in wheels $l^2 k^2$, any other suitable mechanism can be substituted for regulating the relative speed of the knife-shaft.

After the webs have been cut, their ends are liable to become detached from the outer edge of the advancing sheet of pasteboard, and in order to press these ends down upon the pasteboard, before the same leaves the machine, a cylinder and drawn off from the roll without



brush, p^2 , which is actuated by a cam, q^2 , on the knife-shaft is used (see Fig. 2), so that its motion takes place at the proper moment, whatever the size of sheets for which the speed of the knife

In the example represented by the drawing, the brush p^2 is secured to a lever, r^3 , which swings on a pivot, s², and the upper end of which is connected to a rod, t³, which is subjected to the action of a spring, v9, and provided with a nose, against which the cam q2 acts. By the action of the cam the brush is moved from the position shown in dotted lines in Fig. 2 to that shown in full lines, and thereby the ends of the webs are pressed down on the pasteboard. As soon as the cam has passed the nose of the rod ℓ^2 the brush returns to the position shown in dotted lines by the action of the spring v^2 . Instead of using a vibrating brush for this purpose, a revolving brush might be used, and the motion of this brush may be produced by cog-wheels or any other suitable means. An endless apron, H, serves to discharge the finished sheets at the rear end of the machine.

The rolls E E', from which the webs are taken may be of different nature. In the example shown in the drawing, the roll E is provided with gudgeons, which have their bearings in the main frame; but the roll E', which has no gudgeons, is placed on an endless apron, I, Fig. 2, which extends over rollers as bs, and receives its motion from the lower cylinder B'. (See Fig. 1.) In the frame A are secured two disks, c3, the stems do of which are adjustable in their bearings by set-screws e3, Fig. 1, so that the distance between the disks can be adjusted to conform to the width of the roll E'. The roller bs is in close proximity to the cylinder B', so that the web is grasped between the apron I and said cylinder, and as the cylinder revolves a slow rotating motion is imparted to the roll E', and the web is readily drawn off. With the apron I is combined a roller, f3, which dips into a trough, g3, containing water, so that the apron is supplied

a cavity in the cylinder, which is covered by a protecting-plate, i3, the face of the griper and that of the protecting-plate being so formed that when the griper is closed the surface of the cylinder to which it is applied remains unbroken, as shown in Fig. 2. By means of the gripers, the end of the web can be readily secured to the

difficulty, so as to carry the web round the cylinder in the proper position when the machine is first started. As the pasting operation progresses the gripers are not required.

If desired, the gripers may be made to catch over the edges of the web from opposite sides, the protecting-plate i3 may be made separate from the cylinder and attached to it in the proper position, or the cavity containing the griper may be so formed that the procting-plate forms an integral part of the cylinder.

This machine can also be used for lining pasteboard on one side only, or for pasting two webs together, leaving the pasteboard out. The claims of the inventor comprise:

1. In a pasting-machine the combination, with a cylinder B, and with a paste-roller, C, running directly in the paste-trough F, of a rock-shaft, f, provided with two arms, d, for adjusting the position of the paste roll.

2. In a pasting-machine, the combination, with a cylinder B', and of a paste-roller, C', which has its bearings in slots c^1 , of cranks d^1 and straps e1, adapted to impart to the pasteroller a sliding motion toward and from the cylinder B', and to retain the same in close contact with said cylinder.

3. In a pasting machine, the combination, with two cylinders, B B', and two paste-rollers, C C', of two rock-shafts, $f f^1$, connecting-rod h, handlever i, and notched plate k.

4. The combination, with a paste-roller, of a is subjected to the action of a spring or weight for pressing the scraper up against the surface of the

5. The combination, with two paste-troughs, F F', one situated above the other, of a commo

feed-pipe, o, valve p, pipe n, and float r.

6. The combination, in a pasting-machine, of a mechanism for feeding pasteboards in sheets, a cylinder for bringing a web in contact with the pasteboard, a roller for supplying paste to the web, and a cutter for separating the web between the succeeding sheets of pasteboard.

7. The combination, in a pasting machine, of mechanism for feeding pasteboard in sheets, a evlinder for bringing a web in contact with the pasteboard, a roller for supplying paste to the web, a cutter for separating the web between the succeeding sheets of pasteboard, and a brush for pressing down the end of the web after the same has been cut.

8. The combination, with the cylinders, running in contact with each other, or nearly so, in opposite directions, of a slide adapted to feed sheets of paper or pasteboard to the cylinders,

9. The combination, with the knife-shaft and with the feed-slide, of cog-wheels k2 l2, or equiv- country straw, and as the quality is the same or

Correspondence.

British Notes.

[FROM OUR REGULAR CORPESPONDENT.]

18 PATERNOSTER Row, LONDON, E. C., April 6, 1878, Stock taking being about finished for the quarter, many buyers are in the markets and business has been very much better during the week. The aspect of our home affairs is now at least settled and firm, and we all know what the policy of our Government is. The Budget on Thursday evening was highly satisfactory, the only article of consumption affected being to-bacco, upon which a duty of 4d. per pound has been levied and passed already into law. I wish the Government had made it 8d. or 1/1d. per ounce, as we shall all have to pay the shopkeeper 1/2d. per ounce extra. Drapers are the only people who condescend to the humble farthing. Thus once source of anxiety is gradually wearing itself out. What a treat it will be to hear that the Eastern question is no longer a reality, but un fait accompli—so far as its settlement is concerned! The weather has been funny this week. We have had sunshine, hail, rain, thunder and lightning, sleet, heat, cold and frost-a very lively mixture for six days. Today is a beautiful day, and after the tremendous storm which passed over this office yesterday and astounded your correspondent beyond meas ure, we shall likely see spring and its ethereal mildness come at last. Then will come a little business and all its joys and commissions and light suits, white hats and other arrangements.

I was down at Maidstone this week and saw several of my old friends, who told me trade was "pretty fair, considering." Do you know what this speech means? I often hear it, but I have a notion that it means nothing at all, and is a sort of stopper to further inquiry. The fine papers made in Maidstone district are doing famously, there being great demand for fancy stationery and writings. Then the well-known marks are also having a good time, so that we are evidently beginning to wake up a little. I went to Snodland mills also. It was a somewhat bad day, for Mr. Brown was buried that afternoon. I was greatly impressed with the busi-ness going on at the mills. Everything was moving in the old style. Nobody or nothing stands still at these works; it does not pay. Mr. Eustace Hook, the genial and enterprising manager, accompanied me over the whole extensive works. The new evaporating plant was going, yielding scraper secured to a rock-shaft, which and the machinery for moving the alkali agitating tanks was also running. By the way, these tanks and the general arrangements for working the chemical department of the mill are certainly the most perfect and extensive in this country. I was astonished at the immense display. Everything is simple, too, and that is the most attractive feature about the plant. The mill is very busy, turning out sixty tons of paper per week, and keeping up its prices wonderfully. It has been decided by the Misses Hook and their brother to run the mills as usual, and on the same firm principles as their late brother inculcated and so successfully established. The executors under the late C. Towncend Hook's will will therefore cease to exercise any influence over the property in a few weeks' time. As these works support the entire village of about 1,500 people, this intelligence is doubly satisfactory

I saw some barge loads of foreign straw on the Medway going up the river. The straw comes from Holland to London by steamer in square bales about 3 feet 6 inches by 2 feet 6 inches. hard pressed and each bale weighs about say 200 pounds to 2 cwt. This straw is delivered in London at a much cheaper price per load than equally good, the foreigners and the papermakers are enjoying their bread and jam which this growing trade is providing. English straw w about 50s, per load of 11 or 12 cwt., I forget which, but the Dutch straw is being done at 42s.; in using say 200 loads of straw per week, this would make a little difference of £4,000 per

I was asked during the week for samples of American wrapping or packing papers, and also for samples of cheap printing and news papers, book papers, &c. In fact, there are several inquiries, and if some of your paper-makers will kindly send me samples of their make, with their lowest prices for cash on delivery, I shall be obliged. But don't laugh if I ask them to do one essential thing-pay the postage. I have a good reason for asking this. Since my name appeared as the General Agent for The Mail and Export Journal in the United Kingdom, I have been mulcted in a small annuity for unstamped letters from America. Some of these letters actually ordered me to go and hunt up business with the largest London mercantile houses, and they (the American firm) would accordingly "feel pleased." So they ought. I have paid several tenpences lately and am now getting "fly."

Brown papers here are a curious article. I wanted some last week. The following quotations will show you what is what with browns—14s., 14s. 6d., 15s. 6d., 16s., 16s. 6d., 17s., 18s. and 21s. What does this mean. and all for one and the same article-double imperial. Somebody is having a good thing evidently at 21s. when 14s. can produce the article. There is, I fancy, always an allowance of at least ten to fifteen per cent. difference to be made between north and south country mills, but these figures, 14s. and 21s., came from mills not far from each other. So far as quality goes in browns, there is something to say, but nothing that can account for a difference in price of

Our markets are a trifle unsteady. Fibres have been in better demand. The probability of war has caused a rise in Russian rags, principally on account of the increased freights. All linens have moved more freely this week. Rags have been low for so long a time that buyers are shaking a little in their holding-out policy and are coming in to contract. The lower grades of cotton are in good request. Gunny is still snapped up by buyers whenever any offers. Prices are very stiff. Waste papers, owing to the demand for other fibres, were a little stiff too, and kept their place firmly. Prices have not changed, nd those I quoted last week will hold good yet. But this market is firm, and as business seems "coming," perhaps we may see some permanent improvement in rags, which for so long have

Coals.-Owing to the fine 'weather prices fell 2s. per ton, and the market closed thus: Walls-end-Hetton, 17s. 6d.; South Hetton, 17s. 6d.; Hartlepool, 17s.; Lambton, 17s.; Tees, 17s. 3d. Caradoc, 17s. 3d.; Hetton Lyons, 15s. 3d.; South Kelloe, 17s.; Thornley, 17s.; Tunstall, 15s. 3d.; Bebside West Hartley, 15s.; Bowers, 15s.; Springwell, 15s.; East Wylam, 16s. Ships at market, 26; sold, 22; contracts, gas, &c., 22; unsold, 3; at sea, 10.

Chemicals.-Cooper Brothers & Co., of Newcastle-on-Tyne say: The firmness advised in our market some days ago has not been sustained, and prices have considerably declined on account of very limited demand. Prices: Refined alkali, 50 to 52 per cent., 1%d. per per cent., less 6 per cent.; soda crystals, £3 5s. per ton; English ant:chlor, £12 5s.; foreign, £9; soda ash, for prompt delivery, 48 to 52 per cent., 11/d., less 5 per cent.; sodn ash, for April to December, 48 to 52 per cent., 1%d. lass 5 per cent.; bleaching powder, 35 to 36 per cent., prompt delivery, £5 2s. 6d., less 2½ per cent.; bleaching powder, 35 to 36 per cent., April to December delivery, £5 less 21/2 per cent.—all f. o. b. Tyne, less

In Liverpool, white caustic soda, 70 to 72 per nn Liverpoot, white causate soda, to to 2 per cent., £12 12s. 6d.; do., 60 to 62 per cent., £10 12s. 6d.; cream do., 60 to 62 per cent., £10; caustic soda bottoms, £7 15s.; soda ash, 48 to 52 per cent., 1½d. per per cent.; bleaching powder, 35 to 36 per cent, in hard wood casks, £5, in soft wood, £4 17s. 6d.—all f. o. b. in Mersey at Liverpeol. W. F. C.

Our Paris Letter.

[FROM OUR REGULAR CORRESPONDENT.]

Diplomatic Europe is, at this particular mo ment, occupied with Lord Salisbury's circular, and pending the solution of the great questions descanted upon in that able document, business men in France, in common with those of other countries of Europe, are disposed to keep very near shore in their operations. The long prevailing stagnation, therefore, bids fair to persist for a time. French neutrality places a bar upon commercial gains in the furnishing of war supof the prospective belligerents. plies to either

The great Exposition works are very near completion, and there is no doubt whatever that the remaining four weeks will be amply sufficient to bring all into shape for the opening. The British department is in the most forward state of preparation; in fact it may be said to be complete. The total number of exhibiters of all nations is 31,500, of which 22,000 are

Commissioner McCormick arrived in Paris yesterday morning, and finds Henry Pettit, the engineer of the American department, busily at work; the activity in his particular part of the pavilions is refreshing to witness. A late start has been made in the fitting up, but it will be pushed on rapidly to completion during the

The American Advertiser says: "A charac teristic façade is being rapidly erected, and although it is not much more than a fortnight since Henry Pettit gave out the contract, the organization and subdivision of labor is so excellently managed by the French contractors, bers of the Press. On the whole the grand enter-

that all the various parts are in perfect readiness to be fixed together as soon as they are brought on to the ground. At present the structure is a mere skeleton, but next week, when the different panels are inserted and the ornamental menced, we shall be able to form a better idea of the general effect. Judging from the drawings which Mr. Pettit has obligingly shown to us, we should image that the façade will be exceedingly effective. The canvas screens, which it has been found necessary to stretch across the roof, are now in position, and will bear favorable comparison with anything of the kind in the Exhibition. Each screen bears the name and device of one of the States of the Union, and in the centre is a grand design representing the arms of the United States. The colors are very bright, and the ornamental designs very chaste and effective. The designs on the screens are so arranged as to form lines run ning the whole length of the building, so as to draw out the perspective lines and make the United States section appear as long as possible We are sure that future visitors will agree with us in congratulating Mr. Pettit on the success of

"The floor of the section is already marked out and numbered, and everything is ready for the reception of goods, which are now beginning to arrive. As an instance of Yankee smartness we may mention that the agent in charge of Messrs. Mallory, Wheeler & Co.'s exhibit, which was shipped by the Labrador, ar ived with his goods at Havre at 3 o'clock one day last week, got his packages on the train by 5 o'clock, and they were safely unloaded at the Champ de Mars the following afternoon. The cases contain a very fine exhibit of furnishing hardware. Messrs, Mallory, Wheeler & Co., of New Haven, were the second on the ground, the first arrival having been some cases of 'Maizena,' which, we understand, is a kind of starch, and which were sent by one of the mail steamers. The Supply and the Constitution arrived at Havre last Saturday. and Walter W. Barker, the director of the trans ports has made a very favorable contract with the Western Railway Company for the convey ance of the goods to Paris, where they will be received and looked after by Rufus T. Smith. "In our report of the agricultural exhibition

last week, we stated that motive power would be supplied to the agricultural machines by Jerome Wheelock's engine in the machinery gal-lery. In order to make the show of agricultural achines more complete, it has been decided to supply some of the agricultural engines with steam and let them drive the machines. While we are speaking of the Agricultural Building, let us mention the ingenious exhibit of the Com missioner of Agriculture, the drawing of which we have been enabled to consult through the courtesy of T. R. Pickering. In the middle of the agricultural gallery there will be a space marked out 75 feet square, in the middle of which will be a pentagonal star, each of the five points of which will be finished by a pentago column, surmounted by an ornamental urn. The circle of the pentagon will be of a diameter of 59 feet. In the middle of the pentagon will be a pentagonal block, rising above the star, completed in monumental style, and surmounted by an eagle. The whole structure will be in glass, for what purpose we shall see further on. pentagonal star will be three feet from the ground, and each facet will be divided into five compartments, in each of which will be exhibited specimens, of grain for instance. Thus it will be seen that the ten facets of the pentagon will contain 50 exhibits. Again, the facets of the pentagonal columns at the corner of each arm of the pentagonal star will be utilized in a similar way, and will afford space for 25 exhibits. Then on the top of each arm of the pentagonal star, agricultural products will be piled up in a pyramidal form. On the facets of the pentagonal block which comes in the centre and rises above the star, will be printed useful facts connected with agriculture, such as corn statistics and the like, and above it will be placed other pyramids of agricultural products. In order to utilize all available space, the middle of the whole structure is made into a pentagonal office, which is lighted from the glass facets of the pentagonal block which surmounts the star. In the vases which are placed on top of the columns will be specimens of plants, such as cotton and tobacco. The outside corners of the square will either be planted with shrubs or used for exhibiting agricultural products. The employment of glass in the construction of this unique show-case, which is thoroughly worthy of the inventive genius of America, enables every particle of space to be utilized. This monument of agricultural industry will be one of the marvels of the Exhibition, and at the same time one of the most ingenious and interesting exhibits that the United States will furnish.

The foundations for the steam engine in the machinery gallery are now finished. The shafting is being laid down and the flooring is rapidly approaching completion.

The Journal Officiel contains the following note: "The Commissioner-General of the Universal Exhibition of 1878 informs the exhibitors that the catalogue drawn up by the administra tion according to authentic documents furnished by the commissions of foreign nations and by the French committees, and printed at the Imprimerie Nationale, is the only publication of this kind which presents an official character. The insertions (surna nes, Christian names, firms, addresses of exhibitors, and summary descrip tions of products exhibited) are absolutely gratuitous. No advertisements or announcements are admitted. Up to the present no authorization has been granted for the sale within the Exhibition of catalogues, whether general or partial, published by private enterprise."

Three hundred Legion of Honor crosses are to be distributed by the French Government at the close of the Exposition to the most distinguished

officials, jurymen, and exhibitors.

Director Krantz has ceased to grant passes to visit the works, except to exhibitors and mem-

prise inspires increasing interest, notwithstanding the war panic which reigns throughout Eu-

Cincinnati Notes.

[FROM OUR REGULAR CORRESPONDENT.]

CINCINNATI, April 15, 1878, Another step has been taken in the celebrated paper-bag cases, the four suits brought by the Union Paper Bag Machine Co., and Chatfield & Woods, against Thomas Nixon, and Nixon & Anderson. These suits were brought in 1870 by George Harding, of Philadelphia, as the attorney for the Union Paper Bag Company, of that city, the owner of the legal title in the several patents, and Chatfield & Woods, who own the exclusive right in the States of Ohio, Indiana. Kentucky and Tennessee, paying to the Paper Bag Company a royalty on the bags made and sold by them. Suit was brought by the Paper Bag Machine Company as the owner of the legal title, and Chatfield & Woods as the owner of the exclusive right jointly. When the cases were decided in 1873 the patents were sustained, the defendants were declared infringers, and the cases were referred to Rankin D. Jones, as special master to estimate the damages and the profits made by the defendants, and report the same to the court. That report was made some months ago, and the defendants filed exceptions to it, as it found in favor of the complainants in the sum of \$15,000.

The exceptions have recently been argued, and a few days ago Judge Baxter, the newly-appointed judge of the Circuit Court, rendered his decision, which finds that the complainant, the Union Paper Bag Machine Company, was entitled to recover a royalty of four cents per 1,000 bags for all bags made by the defendants; that as the defendants have already paid a royalty by agreement amounting to \$7.543, there is still due, so far as the Paper Bag Company is concerned, the sum of \$930, to make out the full amount of their license The claim of Chatfield & Woods as the owners of the exclusive right in this territory is set aside, his honor holding that there was no authority for joining them in this suit. Complainants recover the costs, with the exception of the amounts paid to the master, but as each party had paid half of the master's fee, amount ing to \$1,500, the Court held that the allowance was too great, and that he would not charge it as costs.

It is claimed that Judge Baxter has differed from other judges in similar suits in reference to the joining of the exclusive license with the owner of the legal title of the patent. However this may be, further litigation is to be had, as the cases will be carried to the Supreme Court. W

Manufacturing News.

The Eagle Mill, belonging to the Smith Paper Company, at Lee, Mass., is reported to be running on half time.

Mason & Wooster, Bristol, N. H., are about to put in at their mill a new 62-inch Fourdrinier to run on straw boards.

The Hurlbut Paper Company, South Lee, Mass., is putting in three new crushing rolls. The old crushers are to be worked into a super

The paper mills of the L. L. Brown Paper ny, at South Adams, Mass., are running to their fullest capacity on large orders and on the company's contract for ledger paper for the Government printing office.

C. H. Dexter & Sons, Windsor Locks, Conn. are building a new chimney and setting two new boilers made by R. F. Hawkins, of Spring field, Mass. These boilers will be set on Jarvis plan to burn screenings and green peat.

MIDDLE STATES.

A new 76-inch Fourdrinier, with seven driers, 36 inches diameter, is to be put in at the Franklin Mill. Chambersburg, Pa.

The Gavit Paper Machine Works, Philadelphia, Pa., now have no less than five paper machines under way in the shop, two of which are just being boxed for shipment. One is an 84 inch Fourdrinier machine, with seven 48-inch diameter driers for the Hudson River Paper and Pulp Co. The other for Mason & Wooster, Bristol, N. H., is a 62-inch Fourdrinier straw board machine. They are building the entire mill for C. P. Markle & Sons, of West Newton, Pa., supplying one 84-inch Fourdrinier and one 76-inch Fourdrinier, the last machine being the Centennial Machine" with two additional driers, and six 500-lb. iron rag engines. Tuey have just completed for E. Mathews, of Zanesville, Ohio, one 600-lb. iron rag engine and one 24x6 ft, rotary boiler. They have just shipped to the Chagrin Falls Paper Co., Chagrin Falls, &c. They have also made one 62-inch Four-drinier machine with seven driers, 36 inches diameter, for J. Heyser & Son, Chambersburg, Pa. Ohio, one stack of 58-inch chilled calender rolls.

WESTERN STATES.

The Chagrin Falls (Ohio) Paper Company is putting in a stack of 58-inch chilled calender

The Novelty Paper Mill, Zanesville, Ohio, is to have a new 600-lb, iron rag engine and a 24x6 ft. rotary boiler. FOREIGN

There is a suspicion that the recent burning down of the City Paper Mills at Edinburgh, Scotland, was the work of an incendiary. The Crown authorities have offered a reward of £250 (\$1,250) for the detection and conviction of the parties concerned in setting the mill on fire.

The Milton Paper Works, Dumbarton, Scotland, ceased operations on March 16. Between seventy and eighty persons were thrown out of

The paper factory of Clairvaux, in the Jura, has been partly destroyed by fire. The loss is estimated at £8,000, partly covered by insurance. The fire is supposed to have been caused by the spontaneous combustion of dirty rags.



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BOOKS OF REFERENCE

THE following is a list of Books of Reference on subjects connected with Paper Making, Chemicals, Colors, Machinery, Hydraulics, &c.:
AUERBACH.—Anthracen: Its Constitution,
Properties, Manufacture and Derivatives.

BAIRD.—Standard Wages Computing Tables BENSON.—Principles of the Science of Color. BENSON.-Manual of the Science of Color. BESANT.-A Treatise on Hydro-Mechanics. BOX.—A Practical Treatise on Heat as applied to the Useful Arts. Illustrated by 14 plates. 12mo. BOX.—A Practical Treatise on Mill-Gearing. BOX.—Practical Hydraulies, 12mo..... BRESSE.—Hydraulic Motors. 8vo.... BROWN.—Five Hundred and Seven Mechanical Movements. 12mo... BURNELL AND LAW.—Hydraulic Engineer-

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IMPORTS of Paper and Paper Materials, Books, &c., at the Port of New York, for the week ended April 12, 1878. Quantity given in packages when not otherwise specified.

Aniline Colors	74	\$9,353
Alum	100	572
Aluminous Cake	25	277
Bleaching Powders	793	10,090
Soda Ash	1,951	58,962
Soda, Bicarb	_	_
Soda, Caustic	1,743	32,576
Sods, Sal	810	1,760
Ultramarine	212	8,720
Books	150	17,828
Newspapers	65	8,282
Engravings	25	14,144
Ink	121	1,961
Lead Pencils	8	1,302
Paper	81	14,304
Steel Pens	_	_
Stationery	94	2,075
Clay	-	3,749
Jute Butts	3,000	35,801
Jute Rejects	1,058	8,758
Paper Hangings	94	3,184
Paper Stock	3,650	53,815
Waste	38	2,148
Total	_	\$978,954

TOTAL IMPORTS General Merchandise, for the week ending

.	April 12	\$4,140,323
2	Paper, Paper Stock, &c., for the year end-	48 084 008
	ing May 28, 1673	15,074,895
٠.	ing May 22, 1874.	12,150,655
	Paper, Paper Stock, &c., for the year end-	24/200/200
	ing May 21, 1875	13,292,891
	Paper, Paper Stock, &c., for the year end-	
- 1	ing May 26, 1876. Paper, Paper Stock, &c., for the year end-	11,293,408
	ing May 25, 1877.	9,627,694
	Paper, Paper Stock, &c., for the quarter	0,001,002
	ending Aug. 24, 1877	2,589,595
-	Paper, Paper Stock, &c., for the quarter	
	ending Nov. 23, 1877	2,748,071
	ending Feb 99 1878	2,239,462
	Paper, Paper Stock, &c., for the week end-	when have
-	ing March 1, 1878	178,174
*	Paper, Paper Stock, &c., for the week end-	000 440
	ing March 8, 1878	258,118
	ing March 15, 1878.	284,940
	Paper, Paper Stock, &c., for the week end-	
•	ing March 22, 1878	226,810
- 1	Paper, Paper Stock, &c., for the week end- ing March 29, 1878	140 488
- 1	Paper, Paper Stock, &c., for the week end-	142,155
	ing April 5, 1878	151,134

IMPORTS of Rags and Paper Stock at the Port of New York, since Jan. 1, 1878, from the following Ports, showing quantities from each Port.

	Bales		Manilla Stck Bales.
Alexandria	721		18
Antwerp	1,441	284	2,739
Bremen	179	642	79
Bristol	_	89	265
Cardiff	84	101	974
Copenhagen		-	_
Glasgow	776	1,339	1,616
Hamburg		482	35
Havre	60	209	_
Hiogo	40		_
Hull		677	1,121
Leghorn	1,999	_	
Liverpool		549	2,565
London		8,450	6,853
Marseilles			
Newcastle	406		148
Rotterdam	-	-	117
San Francisco	1,235		
(Plant a sek a	000	-	

EXPORTS of Paper, Books, &c., from the Port of New York to Foreign Ports, for the week ended

April 16, 1878, with Aggregates and Values. BOOKS, cases, to Hamburg, 4; to Rotterdam, 1; to London, 12; to Liverpool, 25; to Porto Rico, 2; to

PAPER, to Hamburg, 4 cs.: to Bremen, 1 cs.: to Rotterdam, 7 cs.; to Hull, 10 cs.; to Liverpool, 6 cs.;

GRAVES & BROWN, Wholesale Dealers in Rags,
Corner Church and Arch sta., Albany, N. Y.

FRANZEN, WM., Wholesale Paper, Paper Stock and
Woolen Rags, 60 Oneida st., Milwaukee, Wis,
KNIGHT, BEEVE I., JR. Book and Naws Paper and
States of Colombia, 34 cs.; to Venezuela, 280 rma, 50 pkgs.; to Brazil, 2,000 rms.

STATIONERY, to Danish West Indies, 8 cs.; to British North American Colonies, 8 cs.; to Porto Rico, 11 cs.; to United States of Colombia, 14 cs.; to

AGGREGATES AND VALUES.		
Paper, reams	14,401	\$2,521
Paper, pkgs	69	739
Paper, cases	69	2,427
Books, cases	68	6,256
Rosin, bbls	2,049	5,802
Stationery, cases	55	1,663
Totals	16,711	\$19,408

	TOTAL EXPORTS.	
	General Merchandise, for the week ending April 16, 1878	\$6,930,617
	Paper, &c., for the year ending May 27, 1873	2,889,482
	Paper, &c., for the year ending May 26, 1874	1,783,877
	Paper, &c., for the year ending May 25, 1875	2,327,68%
	Paper, &c., for the year ending May 23, 1876	1,654,384
	Paper, &c., for the year ending May 29, 1877	1,790,669
	Paper, &c., for the quarter ending Aug. 28, '77	444,451
	Paper, &c., for the quarter ending Nov 27, '77	760,684
	Paper &c., for the quarter ending Feb. 26, '78	310,299
	Paper, &c., for the week ending Mar. 5, 1878	31,786
	Paper, &c., for the week ending Mar. 12, 1878	26,215
	Paper, &c., for the week ending Mar. 19, 1878	27,058
	Paper, &c., for the week ending Mar. 34, 1878	70,966
•	Paper, &c., for the week ending April 2, 1878	47,48
	Paper, &c., for the week ending April 9, 1878	87.954

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FROM APRIL 12, 1878, TO APRIL 18, 1678, INCLUSIVE. Ultramarine. Geo. Watson, Jr., Helvetia, Liverpool, 8 cks , 15 cs.

Aluminous Cake.

Geo. Watson, Jr., Somerset, Liverpool, 110 cks.

Hide Cuttings.
E. Storey Smith, Chignecto, Antwerp, 182 bs.
E. Storey Smith, C. H. Marshall, Liverpool, 120 bs.

Rags, &c.
John W. Mason & Co., Jas. Forster, Jr., Liverpool, 110 bs. old rope.

E. Storey Smith, E. W. Stetson, London, 514 bs. old

rope; 204 bs. rags. Geo, Watson, Jr., by same, 49 bs. paper stock. Lee & Sturges, by same, 77 bs. paper stock; 62 bs

E. Storey Smith, State of Virginia, Glasgow, 107 bs. old rope. E. Storey Smith, C. H. Marshall, Liverpool, 174 bs.

rags; 391 bs. manilla; 90 bs. paper stock. Lee & Sturges, Switzerland, Antwerp, 623 bs. rags. M. A. Ring & Son, California, Glasgow, 110 bs W. I. Clark, Holland, London, 132 bs. paper stock.

Campbell, Hall & Co., by same, 60 bs. rags. Briggs & Taylor, by same, 63 bs. rags; 430 bs. pape Lee & Sturges, by same, 154 bs. paper waste. W. H. Parsons & Co., by same, 55 bs. paper waste:

36 bs. rags. E. Storey Smith, New World, London, :2 bs. paper tock; 137 bs. rags. Lee & Sturges, by same, 89 bs. rags; 106 bs. paper

W. H. Parsons & Co., by same, 199 hs. paper stock.

Recknagel & Co., by same, 230 bs, rags. E. Storey Smith. Chignecto, Antwerp, 315 manilla; 17 bs. paper stock. enan & Son, State of Indiana, Glasgow, 27 bs.

rags. E. Storey Smith, by same, 92 bs. rags; 56 bs. old

E. Storey Smith, H. S. Gregory, Liverpool, 168 bs. paper stock; 63 coils old rope. Fett & Sengstak, Theodosius Christian, Hamburg,

Hagemeyer & Brunn, by same, 157 bs. rags. John W. Mason & Co.. by same, 35 bs. rope junk. John W. Mason & Co., Magdalene, Hamburg, #3 b

Paper.

Keuffel & Esser, Switzerland, Antwerp, 13 cs. B. Ilifelder, by same, 3 cs. Chamberlin, Whitmore & Co., by same, 3 cs. G. J. Kraft, Mosel, Bremen, 3 cs. F. J. Emmerich, by same, 5 cs. B. Illfelder, by same, 2 cs.

C. Kaufmann, by same, 1 cs. Chas. Beck, by same, 5 cs. E. Kimpton, California, Glasgow, 7 cs. H. Bainbridge & Co., by same, 9 cs. E. & H. T. Anthony & Co., Wieland, Hamburg,

B. Ilifelder, by same, 3 cs. Hy. Bainbridge & Co., Russia, Liverpool, 5 cs.

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Paper.

J. B. Lippincott & Co., Illinois, Liverpool, 19 cs. Paper Stock. Jessup & Moore, Wyoming, Savannah, 5 bs. V. A. Sartori, Ada P. Gould, Leghorn, 150 bs. rags.

Caustic Soda. G. W. & J. W. Reeve, Illinois, Liverpool, 25 drums Cooper, Smith & Co., by same, 76 drums. Order, by same, 125 dru

Soda Ash. Cooper, Smith & Co., by same, 134 tes.

Bleaching Powder. Cooper, Smith & Co., Illinois, Liverpool, 48 cks

E. H. Rowley, Wyoming, Savannah, 90 bbls.

BALTIMORE IMPORTS.

Soda Ash. Order, Peruvian, Liverpool, 57 tox.

NEW ORLEANS IMPORTS

Caustie Soda. J. H. Keller, Roumelia, Liverp ol, 50 drums. Soda Ash. Order, Roumelia, Liverpool, 145 tox.

BOSTON IMPORTS.

IMPORTATIONS of Paper Stock, Chemicals, &c., at Port of Boston, from April 11, 1878, to April 18, 1878, inclusive.

Estes & Lauriat, Marathon, Liverpool, 7 cs. Frost & Adams, by same, 1 cs. Schoenhof & Moeller, by same, 3 cs. E. P. Dutton & Co., by same, 1 cs. Little, Brown & Co., by same, 8 cs.

J. E. Gale, by same, 2 cs. J. B. Norman & Co., by same, 1 cs. A. Gray, by same, 1 cs. Colby & Rich, by same, 1 ca.

Houghton. Osgood & Co., by same, 1 cs.
O. Ditson & Co., by same, 1 cs.
Little. Brown & Co., Siberia, Liverpool, 1 cs. Willesley College, Massachusetts. Liverpool, 1 cs. Stone & Douner, Iberian, Liverpool, 1 cs.

John Allyn, by same, 3 cs.

Paper.
Frost & Adams, Marathon, Liverpool, 1 cs. C. Ried, by same, 2 cs. J. F. Bumstead & Co., by same, 4 cs. hangings Shreve, Crump & Son, by same, 2 cs.

J. Alexander, by same, 1 cs.

Marshall, Son & Co., by same, 2 cs. C Ried, Massachusetts, Liverpool, 2 cs. boxes. W. Lusston, Bohemian, Liverpool, 6 cs. H. Partridge & Co., by same, 6 cs. tissue.

Paper Stock.

Knowles & Appleton, Marathon, Liverpool, 39 tons

paper stock.
S. W. Wilder, by same, 130 bs. waste paper Train, Hosford & Co., by same, 85 bs. rags. Train, Hosford & Co., Bohemian, Liverpool, 80 tons

Train, Hosford & Co., Massachusetts, Liverpool 616 bs. rags. Warren & Co., by same, 214 bs. paper stock S. D. Warren & Co., by same, 147 bs. rags. C. A. Cheney, by same, 68 tons paper stock.

J. T. Lodge & Co., Lepanto, Southampton, 51 be E. P. Dunbar, Dominion, Yarmouth, 32 cwt. paper

Soda Ash. J. L. & D. S. Riker, Bohemian, Liverpool, 30 cks. Warren & Co., Massachusetts, Liverpool, 129 cks. E. & F. King & Co., Lepanto, Hull, 100 cks.

Caustic Soda. E. & F. King & Co., Massachusetts, Liverpool. 100

rums.

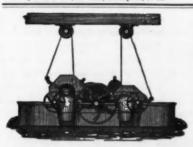
Bleaching Powder.

Warren & Co., Massachusetts, Liverpool, 210 cks.

E. & F. King Co., by same, 115 cks.

Hyposulphite of Soda. Linder & Meyer, Massachusetts, Liverpool, 72 cks. Morey & Co., Lepanta, Hull, & cks.

Ultramarine. T. Leyland & Co , Ib rian, Liverpool, 10 cs



THE PATENT CONE WASHER

ITS ADVANTAGES:

Ir will wash faster than any washer ever put before

Ir requires only one instead of two in an engine for washing rags, and washes much faster, giving better results, which are highly appreciated.

IT reduces expense of wire covering one-half.
IT does not get out of repair, as it has lined bearings that are easily taken out and replaced with new ones at a nominal expense.

Ir can be adjusted to the amount of water at the

ydrant. Ir is self-lubricating.

Ir will wash papers as fast as two common washers, and with two in an engine they are invaluable.

Ir is the best arrangement for washing any kind of stock ever introduced. These Washers are made in the most substantial manner, and warranted to do all that is claimed for

The Washers, or further information, with testi-SOLE MANUFACTURES,

J. T. EMERSON, Claremont, N. H.

ESTABLISHED 1844. JOSEPH C.TODD

(Formerly of Topp & RAPPERTY.) Engineer & Machinist.



Flax, Hemp, Jute, Rope, Oakum and Bagging Ma-chinery, Steam Engines, Boilers, &c.

I also manufacture Baxter's
New Portable Engine of 187,
of one horse-power, complete for \$129; can be seen in operation at
my store. I will furnish specifications and estimates for all kinds
of Machinery. Send for descriptive
circular and price. Address J. C.
TODD, 10 Harclay street, New
York, or Paterson, N. J.

JERSEY CITY PAPER CO.,

Grass Bleached Silver Tissue A SPECIALTY.

Warranted not to tarnish silver.

Also Manufacturers of MANILLA and ROPI PAPER. Office and Mill, 295 WAYNE ST., JERSEY CITY, N. J

Chemical Broker.

No. 36 BATTERYMARCH ST., BOSTON, MASS. P. O. Box 111

Soda Ash. Bleaching Powders, Soda, Hyposulphite of Soda, Caustic Soda, Alum, Clay, Rosin, &c. Sal Sods,

AGENT FOR MCNAMER'S "Excelsior" South Carolina Clay, & L Patent Aluminous Cake, and "Crescent Felts." AND FOR THE

ANDROSCOGGIN PULP COMPANY. Manufacturers of WOOD PULP.

GEORGE HARLEY.

Importer of California Rags,

And Dealer in
WOOLEN and COTTON RAGS, and all 362, 365 & 367 THIRD STREET, een Avenue D and Lewis St. NEW YORK.

JARVIS' PATENT FURNACE

For the Setting of Steam Boilers,

Will save twenty-five per cent. in fuel, or make an increase of twenty-five per cent. in Steam Power. Will burn screenings with small mixture of soft coal, tan, saw dust, green wood, and WET GREEN PEAT, mixed with screenings.

> A. F. UPTON. GENERAL AGENT,

No. 239 CONGRESS STREET, BOSTON, MASS.

Geo. P. Rowell & Co.

CONDUCT AN AGENCY

FOR THE RECEPTION OF ADVERTISEMENTS FOR

The Most Complete Establishment of the Kind in the World. 8.000 NEWSPAPERS

ARE KEPT REGULARLY ON FILE OPEN TO THE INSPECTION OF CUSTOMERS.

EVERY ADVERTISEMENT is TAKEN at the

HOME PRICE of the PAPER, Without any Additional Charge or Commi

An Advertiser in dealing with the Agency is saved trouble and correspondence, making one contract instead of a dozen, a hundred or a thousand. A BOOK of one hundred and twenty pages, containing lists of best papers, largest circulations, religious, agricultural, class, political, daily and country papers, and all publications which are specially valuable to advertisers, with some

IS SENT FREE to ANY ADDRESS ON APPLICATION.

Persons at a distance wishing to make contracts for advertising in any town, city, county, State or Territory of the United States, or any portion of the Dominion of Canada, may send a concise statement of what they want, together with a copy of the ADVERTISEMENT they desire inserted, and will receive information by return mail which will enable them to decide whether to increase or reduce the order.

FOR SUCH INFORMATION THERE IS NO

Orders are taken for a single paper as well as for a list.

For a single dollar as readily as for a larger sum. Office-Times Building, 41 Park Row, And No. 10 Spruce St., New York.

M. S. BULKLEY. J. G. DITMAN & CO., J. G. DITMAN.

Wholesale Paper and Rag Warehouse, 30, 32 and 34 South Sixth Street, Philadelphia, corner of Jayne St.

LARGEST STOCK AND GREATEST ASSORTMENT IN THE COUNTRY.

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 machinery will receive prompt attention. RUFUS SIBLEY, Agent.

References by permission: HUDSON & CHENEY PAPER CO., North Manchester, Casa; WILLIS SON, BROS. & CO., Birmingham, Conn., and many others.

WHITE AND COLORED TISSUES.

The paper Trade Journal

DEVOTED EXCLUSIVELY TO THE INTERESTS OF

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

NEW YORK : SATURDAY, APRIL 20, 1878

Advertisements cannot be received for insertion in rent week later than 9 A. M. on Friday. The charge for advertising is 25 cents a line, each inser-tion. Special terms for standing and displayed adnents to be had on application. Directory Column and one copy of paper, \$10 a year.

THE PAPER TRADE JOURNAL is the recognized organ

of the various Paper-Makers' Associations of

THE JOURNAL contains the latest and fullest in formation relative to the paper trade in all parts of the world, including descriptions of new appliance and processes for making paper, experiments with new fibres and other materials, a record of the water supply, with the latest manufacturing news parts of the country. It gives the cream of all the foreign technical journals which relate to the paper interest, besides communications from competent 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,

Subscription and postage for France, per

Subscription and postage for Germany, per

Foreign subscribers may address our New York

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

amunications must be addressed to All co HOWARD LOCKWOOD,

Publisher and Proprietor, No. 74 Duane street, N. Y. Philadelphia Office: No. 505 Chestnut st.

TO CORRESPONDENTS.

As THE PAPER TRADE JOURNAL is the recognized vehicle of communication in matters of trade m 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 ne best cloth binder in the market. Deliverable at the best cloth binder in the market the publication office. Price, \$1.25.

THE illustrations on our first page are of a new machine for lining straw boards. ' The inventor is a well-known manufacturer of this city, whose experience ought to fit him for making a successful application of his ideas. In view of the fact that other patents exist for similar processes, and that controversy has been excited by reason of alleged infringements, we have given this new invention greater detail than we otherwise would. It will be of interest, however.

WE are told that applications for space at the approaching exhibition of the paper industry at Berlin are very numerous and that the success of the enterprise is fully assured. It has been decided, however, to extend the time for the reception of applications until May 1. This has been done with a view to the accommodation of intending exhibitors from this country. A very short time, therefore, remains to take advantage of the opportunity, and all who want to take part in the exhibition ought to act at once.

THE April number of The American Mail and Export Journal is full of interesting matter. It contains among other things a review of the paper-making industry of the United States, giving an idea of its growth. This paper has become the great medium of intercourse between the foreign and domestic trade, and judging from the very high encomium bestowed on it abroad, stands at the head of all commercial or trade publications.

THE CONDITION OF TRADE.

A dull season for business is upon us, but our paper trade does not seem to have any unhappy previsions of the future. Indeed, from such information as we have to hand one of our reporters being now engaged in looking around through some of the mills-we find that there is greater confidence, and that trade is holding its own pretty steadily. There are reports also that business is better, with more hopeful prospects. Looking at the advance that we find everywhere being made, in quality as well as quantity of product, and recurring to the fact that, notwithstanding a loss of over thirty mills during the past year, there has been a net-increase of fourteen

mills, it is not out of the way to assume that the paper trade is able to sustain itself, there being now nine hundred and fortyeight paper and pulp mills in the United States.

As a feature of this we cannot do better than quote from "Lockwood's Directory of the Paper Trade for 1878," which says: "An examination of the changes in the building and alteration of the mills during the period under review shows some interesting results. In the first place, the new paper machines constructed during 1877 were larger, heavier and stronger than the machines heretofore made, and they had an increased drying capacity of about thirty per cent. Many mills have had new driers added to the old machines, which has been a movement in the same direction as that last noted. The average size of sixty new rag engines put in was about six hundred pounds. This is at least one-third greater than the average for engines ten years ago, and appears to be settled upon as the best size for all purposes. A great number of calenders and super calenders were also put in during last year. While the improvements made in the mills, as reported by the different machinery manufacturers, point to an increased production, the whole tendency has been to improve the quality of the paper by giving the stuff a longer time in the engine, drying the paper slower, and giving it a better surface or finish."

There is a still growing export demand for our papers, and in special lines this demand comes from remote quarters. The energy shown by a few men has awakened interest wherever their efforts have been directed. and it is satisfactory to note that, as a rule, a first order for American papers is not the

Of the foreign trade there is very little to be said. In Great Britain business continues dull, although there are signs of animation which serve to inspire hope. That country, however, is too much disturbed at present with war complications to be comfortably assured of improving trade. In France there is less doing, although the mills continue to produce quite fully. The German trade shows no improvement, and in Austria the outlook is unpromising.

Correspondence.

[Communications 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 to write only on one side of the paper. No responsi e opinions of correspondents attaches to Communications must be sent to reach bility for the office by Wednesday night or Thursday morn ing, of each week, to insure insertion.]

Unexplained Water Marking.

To the Editor of The Journal:

I have a poser for paper-makers. At times I have a water mark just like a felt mark in my This is made when I have on two new felts and new jackets, and may be seen on wire between the suction boxes and couch roll by holding a light under the wire.

Two sheets made in an hour show this crissross mark in one and not the other. I have heard experts say immediately when shown the paper, "Your felt is worn out." Will some man who has had a like experience speak out! Yours, WATER MARK.

Changes, Removals, and New Firms.

Hill, Cote & Co., printers, Pittsburg, Pa., succeed G. M. Cote.

W. A. Whitney, printer, Adrian, Mich., has Werner & Buchtel, publishers, Akron, O., suc-

ceed Paul E. Werner. J. W. Orr & Co., printers, New York city, are

selling out at auctio Cheney & Calley, printers, Lebanon, N. H.,

succeed F. W. Cheney. H. Wade & Co., book dealers and stationers, Memphis, Tenn., have sold out.

The National Union Publishing Company, Washington, D. C., has sold out. M. R. Capron, lithographer, &c., Providence,

R. I., has sold out to Horton & Hemperly. D. B. Ainger, of the Bryan Press, Bryan, O., has sold out.

Wm. Hertha, stationer, Providence, R. I., has sold out his business. Ward & Hinds, music dealers and stationers

Newark, N. J., succeed L. A. Ward. Moore & Langley, printers, Nashua, N. H., have dissolved partnership. Mr. Moore con-

W. H. Bork & Co., bookbinders, Buffalo, N. Y., have dissolved partnership. W. H. Bork

city, have dissolved partnership. George H.

Onderdonk Brothers, printers, Dunellen, N. J. have sold out.

Dudley & Co., dealers in books and stationery Minneapolis, Minn., have dissolved partnership George T. Dudley continues.

Quimby & Burns, proprietors of the Gazette, Lancaster, N. H., have dissolved partnership. The firm is now Quimby & Roby. Logan & Forbes, printers, New York city,

have dissolved partnership. W. Logan con Neher & McNeil, book dealers and stationers,

Saratoga, N. Y., have sold out to Charles D. Slocum.

Peter H. Stauffer, publisher of the Home Friend, Quakertown, Pa., has sold out to M. G. Oberholtzer. Smith & Vander Houten, printers, New York

city, have dissolved partnership. W. F. Vander outen continues. Taylor & Co., publishers of the Lumberman

Stillwater, Minn., have dissolved partnership. Taylor & Clewell succeed. L. J. Washburn, for several years connected with the World, has bought the Tolland County

Gleaner of Rockville, Conn. Edward Conlay has removed his mill and ma chinery agency from No. 74 Duane street to No.

Failures.

5 Beekman street, New York city.

McLeish & Co., printers, Toronto, Ont., have

W. I. Swords, dealer in stationery, &c., Rich nond, Va., is in bankruptcy.

George A. Clement, dealer in books and stationery, Niagara, Ont., has been sold out by the sheriff.

John T. Kenney, dealer in stationery, &c. Dayton, O., has made an assignment.

James Harper, paper manufacturer, Westville Conn., is reported to have filed an application in bankruptcy.

Henry J. Albert, of the firm of A. & H. J. dealer in paper hangings, Baltimore, Md., has made an assignment.

An application has been made to force F. W. Bullard, Lanesborough, Minn., dealer in bag-

gings and paper stock, into bankruptcy. At a meeting of the creditors of E. A. Kings land & Co., held at the rooms of the Stationers Board of Trade, on Thursday, it was unanimously agreed to accept a composition of 30 nts, 20 cents cash and 10 cents at four months.

The business is to continue Martial L. and Francis A. Bates, paper manu facturers, West Cummingston, Mass., owe \$2,196, cured. The assets are \$155 in acco Martial L. Bates has private debts \$10,480, \$8,825 being secured. He has no assets. Francis A. Bates has private debts of \$849, unsecured, with

Soloman Telsenthal and Sigismund Strauss formerly employed in the paper business in Bloomington, Ill., under the firm name of Telsenthal & Strauss, have filed a voluntary petition. The firm has no secured debts, but has unsecured liabilities to the amount of \$11,969.01. It is also liable on accommodation paper to the amount of \$1,900; assets quoted at \$4,000.

A meeting of the creditors of Thomas J. Burbey, paper manufacturer, Glasko, Conn., was held on Thursday at Leggett's Hotel in this city. A representative of the bank-upt firm was pres ent, but in the absence of the books and accounts could only make a general statement. It was claimed that the firm was perfectly solvent, and if time was given the members would be able to pay in full. They asked for an extension, offer ing to give their notes for four, nine and twelve onths. The liabilities were stated to be about \$12.000. A committee, consisting of Mr. Lee, of Lee & Sturges, Warner Miller, of the Huds River Paper and Pulp Company, and John Taylor, of Briggs & Taylor, was appointed to investigate the matter and report to the next Monday. Among creditors are Lee & Sturges, Briggs & Taylor, Butterworth & Smalley, Dolphin Manufacturing Company, Wing & Evans, Hammell & Gilles-pie, the Hudson River Paper and Pulp Company, J. W. Mason & Co., and Staniar & Laffey The complete list of creditors and the amounts owing each will be furnished at the next meet ing, when it is likely that the extension asked

A first meeting of the creditors of W. H. Brett & Co., stationers and engravers, Boston, now in bankruptcy, was held on Wednesday of last week before Register Palfrey. Claims were presented to the amount of about \$50,000. tions were made to quite a number of the claims presented, many of the creditors seeming con vinced that there was something decidedly 'crooked" in them, and that they were presented simply to secure the choice of an as signee who would work in the interest of the bankrupts. One of the claims, which was in the nature of a note, and presented near the close of the meeting, amounted to \$26,000, and was in favor of a large business house in Boston. The register decided that the creditors making the objections should file them in writing, and if cessary the whole matter will go before Judge Lowell of the United States Court for final adjudication. Pending these objections the meeting was adjourned for two weeks. Mr. Brett's affairs have been in statu quo for so long a time since his first act of bankruptcy, and he has shown so much reluctance towards effecting any kind of a settlement, that some of the creditors are disposed to think that these delays and hindrances are made with the intent of obstructing them from promptly obtaining their just dues Soon after the adjournment, H. R. Brigham, as attorney for the Stationers' Board of Trade applied to and obtained from the United States Asher & Adams, map publishers, New York | District Court a writ of injunction restraining

said bankrupts from continuing business or ex rcising any control over their property. Mr. Brigham also obtained an order directing the United States Marshal to take immediate pos session of all the property of the estate.

A meeting of the New York creditors of Lock wood, Brooks & Co., publishers and booksellers, Boston, Mass., was held on Wednesday at the rooms of the Stationers' Board of Trade. Charles H. Hunter was elected chairman. He stated what had been done previously in the case, as already recorded in these columns, and stated that an in vestigation of the books and accounts of the firm revealed the truth of the statements made by the members as to the liabilities, assets, &c. Mr. Hunter also stated that the committee con sisting of Dana Estes, A. S. Parsons, John A. Loring, H. O. Houghton and himself had agreed to appoint H. O. Houghton, receiver and permanent assignee of the property. A telegram had been sent to the bankrupt firm in anticipa tion of the meeting, in which it was asked whether it had any terms to offer. The reply was to the effect that the firm had at present no offer to make. The chairman then stated the object of the meeting to be the appointment of a new committee to look after the affairs of the concern, or if the creditors preferred, the submission of matters to the committee already appointed. It was resolved that the same com mittee be empowered to represent those present, and after agreeing to pay a sum not exceeding 5 per cent. of their individual claims to secure a ettlement, the meeting adjourned. The principal creditors of the firm, according to the schedale submitted are, J. W. Brooks, \$27,950; J. H Brooks, \$2,216; Ira Bradley & Co., \$1,218.72; City of Boston (taxes), \$1,112.50; Cambridgeport Dairy Co., \$1,080.84; H. W. Dutton & Co. \$505.58; H. O. Houghton & Co., \$906.51; Warren Homes, \$1,279.97; Rice, Kendall & Co., \$1,155.68; Wm. Steafe, \$2,429.75; E. J. Tobey, \$11,584.65; S. D. Warner & Co., \$937.28; Williams & Govett, \$729.17, all of Boston, Mass.; W. G. Hoag & Co., Worcester, Mass., \$497.41; Claremont, Mfg. Co., \$229.12; Marcus Ward & Co., Philadelphia, Pa., \$3,945.18; Middlesex Savings Bank, Concord, N. H., \$15,000; Salem Saving Bank, Salem, Mass., \$6,000. Of the total liabili ties, amounting to \$115,692.95, only \$4,815.71 is due to New York houses, the principal of which are as follows: American Tract Society, \$1,331.38; Liebenroth, Von Auw & Co., \$224.25; Henry Levy & Son, \$159.62; Macmillan & Co. \$635.53; Thos. Nelson & Son, \$418.83; The Nation, \$188.67; George Routledge & Son, \$168.99; and Slote, Woodman & Co., \$155.82. There are numerous other small book accounts less than \$100 each. More than one-half of the indebtedness is to relations who aided the firm, enabling it to reduce its outside liabilities over \$25,000 since January 1. The full statement of assets and liabilities is as follows: Liabilities, \$104,978.79; contingent (notes discounted), \$10, 714.16—total, \$115,692.95. Assets, \$69,332.92. was reported yesterday that the Court had refused to appoint a receiver, and that a meeting of creditors had been called to choose an as signee.

Chattel Mortgages. NEW YORK CITY. Warren st....... J. Wood....... 1,400 Rodda & Notz, 172 Centre st.. R. Trippett...... 3,000 ...2,000 BROOKLYN. NEW YORK STATE.

 John Quinn, Lawrenceburgh Gazette.
 2,200

 Mary P. Headley, Rochester.
 800

 R. D. Palmenter, Waterford.
 2,000
 NEW JERSEY.

EASTERN STATES. George F. Moulton, Newburyport, Mass...

Horton Temperley, Providence, R. I..... William H. Halliday, Boston, Mass 1,000 C. C. Corbett & Co., Providence, F J. D. Colney & Sons, Keene, N. H Frederick Beck, Boston, Mass..... ..1,200 James Kenealey, Boston, Mass..... A. S. Comee, Boston, M 250 Oliver F. Nudd, Boston, Mass.....

WESTERN STATES.

H. A. Miller, Dehver, Col..... S. W. Roth, Chicago, Ill500 I. Feicheimer, Terre Haute, Ind. (Real)......600 C. L. Chittenden, St. Louis, Mo.... Lake, Carson & Co., the Argus, Akron, O...... L. A. Rose, Detroit, Mich..... uben E. Aldrich, Jackson, Mich. J. C. Erwin, Minneapolis, Minn
A. M. Hall & Co., Minneapolis, Minn...... 400

Accidents.

James L. Barrett, employed in Case Brothers' paper mill at Chaplin, Conn., was caught re-cently by his jacket and whirled around a shaft at a fearful rate till his clothing gave way, when he was thrown on a large 14-inch belt with sufficient force to break it twice, then hurled upon another belt and carried over the engine, etween two large pulleys which revolve a sh distance apart, to the floor. It is reported that

Fires.

The office of the Republican, Urbana, Ill., has been burned out.

Jessup & Laflin's Woronoco paper mill, at Westfield, Mass., with \$15,000 worth of manufactured paper in a storehouse, were destroyed by an incendiary fire on last Saturday night. Loss, \$75,000; insurance, \$40,000. The mills will be rebuilt.

The Flint Paper Mill, at Flint, Mich., was burned on Friday of last week. The building and stock were nearly a total loss. The fire is supposed to have caught from a spark from a The loss is estimated at passing locomotive. from \$3,000 to \$4,000; insured for \$2,500, in the Phoenix and Atlantic, New York. The mill was owned by a stock company.

In Town.

A. H. Christian, Jr., Richmond, Va., S. S. Rogers, Lee, Mass.; H. B. May, Lee, Mass.; Benj. Riegel, Riegelsville, N. J.; J. E. Ells, Geo. L. Wright, Jr. teneaque, Mass.; T. H. Hulbert, North Wilbra-

The Pending Tariff.

At a meeting of Philadelphia publishers and booksellers, called to consider the Wood Tariff bill, Henry C. Lea presided. Walter Lippincott, as chairman of a committee appointed at a previcus meeting to correspond with the publishers and booksellers of New York and Boston, and secure their co-operation in opposing the proposed changes in the Tariff law, reported that the correspondence had not resulted in any concert of action among the representatives of the trade in those cities. In view of this the committee thought it advisable for the meeting to take immediate steps toward recording its protest against the bill, and then try to get New York and Boston to concur in the action taken. committee, therefore, offered the following as sense of the publishers and booksellers of Philadelphia:

Resolved, That we are unalterably opposed to the rovision of the Wood Tariff bill fixing the duty on ooks at 20 per cent. ad valorem, for the reason that the actual market value of a book is so difficult to ar rive at that the present existing duty of 25 per cent, is, in practice, found to be so far inoperative and delusive that the great bulk of books now imported in large quantities pay but a small proportion of that duty upon the ordinary foreign wholesale prices; therefore, to reduce the duty to 20 per cent. would simply be to decrease that which is already too low. and to give increased advantages in our markets to foreign producers, who thus already contribute so little to the support of our National and nothing whatever to our State and local governments

Resolved, That at the present moment, when the land is filled with financial ruin, and its necessary individual suffering, and the future is so uncertain we are opposed to any alteration whatever of the tariff, but more especially to any of such a revolutionary character as is proposed by this bill, the very discussion of which latter by the Committee Ways and Means has exerted a most disastrous uence on nearly every branch of trade and in-

olved. That when the nation shall have again recovered its prosperity, and the proper time has thus arrived for the amendment of any part of the existing tariff, the duties on books should be such a discriminating combination of ad valorems and specifies as will effectually prevent the importation of books, and the printed sheets of books, at or about the actual cost of paper, press work and binding, and wholly without regard to their market prices, and the payment of duties based wholly on such under valuation.

The resolutions were adopted, and ordered to be forwarded to Washington. A protest, to be sent to Congress with signatures attached, was then offered and adopted. It asks that the whole subject of changing the tariff be postponed, but suggests that if any alteration be made it be in requiring specific instead of ad valorem rates on imported matter.

Newspaper Intelligence.

The following is a list of new newspapers, furnished from the advance sheets of the American Newspaper Reporter and Printers' Gazette:

NEW NEWSPAPERS.

DAILY. New York (N. Y.) New Yorker Volkazeitung.... Erie (Pa.) Leuchtthurm... Moncton (New Brunswick) Times..... 21 × 26 SEMI-WEEKLY. New York (N. Y.) L'Eco D'Italia.... Boise City (Idaho) Idahoan 19 x 25 WEEKLY. Columbia (S. C.) Register.... Tyler (Tex.) Texas Law Journal ... Wiroqua (Wis.) Vernon County Herald Woodstock (New Brunswick) Clipper...... Sutton (Ont.) Times...

Beauharnois (Province of Quebec) L'Echo de Beauharnois..... 17×22 SEMI-MONTHLY. Providence (R. I.) Parrott..... MONTHLY. New York (N. Y.) Brick and Pottery Journal., 12×15

RESUMPTIONS. CHANGES.

The Red River Star, Moorhead, Minn., has changed to the Advocate.

The Banner, Times and Observer, Easton, Mo.

has changed to the Buchanan County Journal.

The Heidelberg Teacher, Cincinnati, O., has merged

The Sewing Machine Gazette, Wilmington, O., has moved to Cincinnati.

CONSOLIDATIONS.

The Gazetie and the Courier, Charleston, Mo., have been consolidated under the name of the Courier Gazette.

Nevada, have been consolidated under the name of the Times Review

met and News, Georgetown, S. C., has con solidated with the Times, under the name of the Times and Comet.

SUSPENSIONS NOT PREVIOUSLY ANNOUNCED. The Green County Democrat, Whitehall, Ill.; Blade, Portlandville, Ia.; Blade, Cedarville, Kan.; American Citizen, Lexington, Kv.: Republican, Somerset, Kv. Chronicle, Winchester, Ky.; Sunday School Companion, Baltimore, Md.; Republican, Frostburgh, Md.; Charlestown Advertiser, Boston, Mass.; Literary Album, Boston, Mass.; Michigan Agriculturist and Home Journal, Jackson, Mich.; Messenger, Maple Rapids, Mich.; Grand River Herald, Muir, Mich. Oracle, Saline, Mich.; Courier, Wayland, Mich.; Good Templar, Ypsilanti, Mich.; Press, Lac Qui Parle, Minn.; Citizen, Minneapolis, Minn.; True Mis-sissippian, Friar's Point, Miss.; Courier, Kansas City, Mo.; Herald and Progress, Pleasant Hill, Mo.; Argus, Sarcoxie, Mo.; Republican, Columbus, Neb.; Times, Kenesaw, Neb.; Nebraska Freie Zeitung, Omaha. Neb.; Cedar County Advocate, St. Helena, Neb.; Helvetia, Paterson, N. J.; Globe, Buffalo, N. Y. Tribune, Dunkirk, N. Y.; Weed, Elmira, N. Y.; Lock porter Post, Lockport, N. Y.: North New Yorker and Westchester Clarion, New York, N. Y.; Banner, Saratoga Springs, N. Y.; Delaware County Times, Sidney Plains, N. Y.; Christian Work, Syracuse, N. Y.; Investigator, Columbus, O.; Democrat. Ironton, O.; Gazette, North Lewisburg, O.; University Review, Wooster, O.; Advertiser, Athens, Pa.; Young Folks' Visitor, Elizabethtown, Pa.; Baptist Quarterly, Philadelphia, Pa.; Baner America, Scranton, Pa.; Parish Dial, Williamsport, Pa.; Hiwassie Reporter, Calhoun, Tenn.; Commercial and Legal Reporter, Nashville, Tenn.; Dally Texas Leader. Austin, Tex.; Frontier Sentinel, Richford, Vt.; Literary Casket, Singer's Glen, Va.; Mason County Journal, Mason City, W. Va.: Midland and Milwaukee Magazine, Madison, Wis.; Herald, Peshtigo, Wis.; Era, Swan Lake, Dakota; Record, Corrinne, Utah; Prince Edward Island; Times, Souris, Prince Edward Island; La Revue Agricole, St. Hyacinthe, Quebec.

General Notes.

A. Klipstein, 32 Platt street, as agent for the shippers, offers the "Elephant" brand of aluminous cake.

Mention is made of a new perforating machine of Messrs, Brendler & Harler, of Vienna, which is said to have been patented already in several countries.

Trade accounts from Vienna continue to report serious depression; the work required for the ex-hibition has been inconsiderable, exhibitors exercising the greatest economy. Reports from the provinces repeat the same unfavorable symp-

The Japanese Government is considering the propriety of revising its treaties, and the press is advocating a protection tariff and the abolition of foreign jurisdictions within Japanese territory. Doubtless such jurisdictions are inconsistent with national self-respect, and must rapidly demoralize any government that sub-

The bankrupt stock of stationery, school books, &c., of the late firm of Frothingham & Co., Boston, Mass., is now for sale for the benefit of the creditors. The assignee, Albert S. Parsons, solicits bids for the entire stock, or any portion of it, from the trade. The inventory will be open to inspection at the store No. 49 Franklin street, from 9 A. M. to 5 P. M., daily and bids will be received until April 20.

The programme for the International Literary Congress, which is to meet in Paris during the Exhibition (from June 4 to 15) under the presidency of Victor Hugo, contains the following agenda: Opening address by Victor Hugo; debate upon literary property, its conditions and duration of time; project of an international literary treaty, by which every foreign author shall be placed under the same advantage as native authors in the exercise of his rights of property; situation of authors in our age, and suggestions for the bettering of their lot in different lands; literary fellowship, clubs, and socie ties; nomination of a permanent international committee.

SPECIAL NOTICES.

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

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Market Keview.

OFFICE OF THE PAPER TRADE JOURNAL, I FRIDAY EVENING, April 19, 1878.

THE MONEY MARKET.—The money mar ket to-day opened with some display of strength, which was apparently fictitious, for after the rally of early calls there was a settling down in prices due to the disposition to realize the profits of late advances, as well as to get on the falling side of the market for a turn. Money on call rules generally at 5 to 6 per cent.

Government bonds were generally steady during the week, but toward the close were a fraction lower.

Gold slowly but steadily gravitated toward par during the week, and at one time was steady at only 1/8 per cent. premium, but latterly ruled a fraction higher. The following are the quotations for the week:

Opening, Highest, Lovest, Closing,
Opening, Highest, Lovest, Closing,
April 13. 1004g 1004g 1004d 1004d
15. 1004g 1008g 1004g 1009d
16. 1008g 1008g 1004d 1008d
17. 1004d 1008g 1004d 1008d
18. 1008g 1008g 1008g 1009g
19. Good Friday.

The posted rates for bankers' Sterling are April 13... ..

to-day \$4.87 for 60-day and \$4.89½ for sight, and the market is firm. The following are rates to-day: Sterling, 60 days, \$4.86 $\$4.86\frac{1}{2}$; sterling, sight, $\$4.88\frac{4}{2}$ to $\$4.89\frac{1}{2}$; cable transfers, $\$4.89\frac{1}{2}$ to $\$4.90\frac{1}{2}$; commercial sterlings ing, prime long, \$4.85½ to \$4.86; commercial sterling, good long, \$4.84 to \$4.85½; Paris, bankers', 60 days, \$5.15½ to \$5.13½; do. sight, 5.13½ to 5.11½; Antwerp, bankers', 60 days, 5.161/2 to 5.131/4; do. sight, 5.121/2 to 5.111/4; Swiss bankers', 60 days, 5.15 to 5.13%; do. sight, 5.121 to 5.111/4; Reichsmarks (4), bankers', 60 days, 95% to 96; do., sight, 961/4 to 961/2; Guilders', bank ers, 60 days, 401/4 to 401/4; do., sight, 401/4 to 40%

THE PAPER TRADE.-A most uninterest ing and quiet week has just passed, in which trade jogged along at an easy rate without ex hibiting an element of interest or an incident outside of the easy going movement of very moderate transactions. In fact, it was generally characterized as dull, although dealers were not gloomy nor depressed. On the contrary, there is an outlook of hopefulness, founded not so much upon an anticipated recovery in values as an expected steady call for goods based upon a healthful and steadily growing demand to meet current needs. Manufacturers and holders have pretty well settled down to the conviction that prices cannot be forced upward when the ten dencies in all lines of goods are toward minimum figures, and are well satisfied to have values maintained and kept up to the level of previously quoted rates. In some directions efforts are made to arrest the downward scaling and keep prices established, but there the efforts stop, except where over-production renders necessar a curtailment in the supply by shutting mills down for a season on half time or for a less period. Writings have not moved with the freedom of a month ago, and the increased demand incident to the season of the year seems to have abated, as purchasers have got fairly stocked up for the present. These remarks apply more par ticularly to Ledgers, Records, Fine and Superfine Loft-dried Flats. Engine-sized being more in demand for the current needs of purchasers gave less signs of change in movement and were in about the usual call. In Book Papers there was nothing new to notice, and a jobbing business only was transacted. Manillas are pured about as wanted, but that is not saying much, and it has been found not only unprofita ble, but useless to attempt to force trade. Straw Boards are in about the same easy request, but no changes in prices are noticed. Straw Wrappings do not seem to improve any, and holder are looking to the proposed stoppage of the State Mills for some amelioration. Binders' Boards share with other articles in the sluggish feeling, nd the volume of trade has materially faller off, although prices are unchanged. Newspapers are unaltered, and no new contracts are re ported.

JUTE BUTTS.-The arrivals since our last issue have been at this port the Lucy S. Mills, 5,282 bales. The heavy March arrivals supplied the manufacturers so freely that the demand has ruled very light and sales have been in small lots only. The general asking price on the spot is 2 13-16c, to 2%c., with a possibility of buying ex shipments a shade cheaper. For future de livery prices remain unchanged, and March and April shipments are held at 2 13-16c, to 2%c.

FOREIGN RAGS AND PAPER STOCK .-There has been a general yielding in prices, and the market for all kinds and qualities is weaker. Linen rags of all sorts have felt the sensation, and desirable offers, even at considerably re duced prices, are accepted by holders with avidity. The arrivals for the week foot up 1,750 bales Rags; 1,100 bales, Paper Stock; and 1,456 bales, Manillas

DOMESTIC RAGS.—The past week has been a dull one so far as the volume of transactions is concerned, while there has been a general giving way in prices. City Whites have, possibly, been

the exception, and have not yielded as much as some other materials. Sales are reported of 30 tons No. 2 City Whites, at 3%c., although a lot of 5 tons exchanged hands at 3%c. City Seconds also yielded some to the general pressure, and 50 bales sold for 2c. There were sales of 125 bales good City Seconds at 2½c. Canvas sold in small lots and a trifle lower. There were sales of 10 tons No. 2 Canvas (cotton and linen), at 3c., and 5 tons No. 1 Linen Canvas at 4%c.

BAGGINGS.-The market has been weaker and prices are a shade lower. Of the sales reported, 85 tons No. 1 Gunny Bagging sold at 2%c. to 2%c., and 25 tons No. 2 Gunny Baggings at 2c. Rope is also a trifle weaker, and sales occurred of 20 tons No. 1 Manilla Rope at 3%c.

OLD PAPERS.-There has been no change in this market, and few sales. Among those reported are 5 tons Heavy Book Stock at 3%c., and 10 tons Ledger Stock at 3%c.

WOOD PULP.—This article keeps in good demand, and many tons exchanged hands during the week at the regular price, $3\frac{1}{4}$ c.

STRAW.-The market has been moderately active, and prices remain unchanged. We quote: 55c, to 60c, for Long Rye; 50c, for Short Rye, and 45c, to 50c, for Oat.

ROSINS.-Strained remains quiet. The export movement is light, and there is an easy market. Sales include 200 bbls. No. 1 and Pale at \$2.20 to \$3.75. The quotations are: Good Strained at \$1.65; Common do. at \$1.60; E at \$1.75; F at \$1.80; G at \$1.90; H at \$2.10; I at \$2.20 to \$2.35; K at \$2.75 to \$3; M at \$3.50 to \$3.621/4; N at \$4 to \$4.25; W at \$4.50 to \$4.75.

CHEMICALS. - The market is dull, and rices are unchanged. Sales have been follows: 100 casks Bleaching Powders, at \$1.40 currency; 50 tons Soda Ash, 48 to 56 per cent. at \$1.70 gold; 50 drums Caustic Soda, 60 per cent., at 41%c. gold; 25 tons Sal Soda, at \$1.25 gold; 100 barrels Lump Alum at 2%c. currency; 100 barrels Ground Alum at 21/2c. currency; 50 barrels Potash Alum at 21/2c. currency: 50 tons Concentrated Alum at 2%c. currency; 150 barrels Natrona Porous Alum at 31/sc. currency; 25 tons Aluminous Cake at 21/sc. currency; 10 casks Yellow Prussiate at 231/2c. currency; 5 casks Bichromate at 121/6c. currency; 10 tons English China Clay at \$17 gold; 20 tons S. C. China Clay at \$13 currency, and 5 tons English Silesian White at 1c. currency.

COAL .- During the week the Anthracite Coal trade has been remarkably quiet and devoid of trade has been remarkably quiet and devoid of any feature of interest or excitement. In Bituminous there is not much stir, although some contracts have been made. Saward's Coal Trade Journal says: "The disposition to advance prices, when the opportunity presents itself, from a combination of circumstances, such as a market only partly supplied, the lateness of the season, and the inherent power of controlling production, must prove a most difficult thing to control this fall. We venture a repetition of the opinion expressed in our last, that herein lies the danger to the prosperous carrying out of the agreement entered into. We do not hear so much about cutting of prices lately. Once in a while there is a rumor started that last year's contracts are being carried over, and that "so and so" is getting coal at low prices, by reason of this state of things; but come to ferret it out, there is not much truth in it. While there is no restriction as to price, it appears that wholesale dealers are standing up to the rack very well, indeed. To avoid any opportunity for discounting prices, why not make sales under guarantee, for cash, sufficient to put out of the way whatever may be on hand, affoat or on the wharves? This is the way out of the present stagnation. Lehigh is reported as in better shape, so far as orders are concerned, than other qualities; their line trade, for large sizes, is very good, indeed." The quotations at tide wate are: Lump, \$4; Broken, \$3.75; Egg, \$3.75; Stove, \$3.90, and Chestnut \$3.25. any feature of interest or excitement. In Bi-

NEW YORK MARKET.

PRICES CURRENT.

Paper Market.
DEALERS SELLING PRICE

DEALERS SELLING PRICE			
Ledger and Record	0,22	@\$	
Flat Caps, Superfines	17	0	21
Flat Caps, Fines. Flat Caps, engine-sized Blotting, American Blotting, English Book, super-sized and calendered	143	60	16
Blotting American	13	88	1316
Blotting English	21	a	25
Book, super-sized and calendered	12	46	16
	15	0	17
Book avtre machine finish low grade	9	0	1114
Book, extra machine finish, tinted Book, No. 1, Shavings & Imperfections Book, No. 2, Shavings & Imperfections	18		_
Book, No. 1, Shavings & Imperfections	10	(B)	11
News, rag and wood	7	60	10
News, straw		60	8
		0	734
Hanging, Superfine, No. 1	-	0	16
Hanging, Superfine, No. 2	124	60	14
Hanging, Superfine, No. 3	10	0	_
Hanging, Machine Satin, No. 1	33	60	8
News, Common. Hanging, Superfine, No. 1 Hanging, Superfine, No. 2 Hanging, Superfine, No. 3 Hanging, Superfine, No. 3 Hanging, Machine Satin, No. 1 Hanging, White Blank, No. 2 Hanging, White Blank, No. 3 Hanging, Curtain. Hanging, Buff. Hanging, Brown.	61	60	734
Hanging, White Blank, No. o	51	30	7 6
Hanging, Buff	5	103	516
Hanging, Brown	4	(CD	5
Colored Papers, Double Mediums	103	60	1114
Colored Papers, Glazed Mediums	18	0	15
Hanging, Brown. Colored Papers, Double Mediums Colored Papers, Tobacco. Colored Papers, Tobacco. Colored Papers, Tssues, 20 × 30, @ ream. White Tissue, 20 × 30, @ ream. White Tissue, 20 × 30, & Ream.	1 80	0	11
White Tiggie 90 v 90 50 ream	1.90	00	-
White Tissue, 24 × 36, 19 ream	1.70	0	-
Manillas, Flour-sack, cream	123	60	1314
Manillas, Flour-sack, cream Manillas, Flour-sack, drab	10	0	1134
Manillas, Rope, unbleached	113	100	1812
Manillas, No. 1, light weight	10	0	1012
Manillas, Rope, unbleached Manillas, Rope, unbleached Manillas, No. 1, leght weight Manillas, No. 1, heavy weight Manillas, No. 2, heavy weight Manillas, No. 2 Manillas, Bogus.	8	8	812
Manillas, No. 2	6	6	7
Manillas, Bogus	4	0	5
Tippue mainima, ran conne, weight and	ma		-
size, 11 × 15, other sizes in proportion	22	6	503
Hardware, No 1, glazed	81	10	9
Hardware, No. 2, glazed	73	600	8
Binder's Boards, @ ton	35.00	@1	00,00
Straw Boards, air-dried, Album, & ton	55,00	@ 6	5.00
Straw Boards, air-dried, No. 1. P ton.	17.50	00 5	5,00
Straw Boards, steam-dried, No. 2, 9 ton	2.00		5.00
size, 11 × 15, other sizes in proportion Hardware, No 1, glazed Hardware, No 2, glazed Hardware, No 2, glazed Binder's Boards, \$\vec{y}\$ ton. Straw Boards, air-dried, No 1. \$\vec{y}\$ ton. Straw Boards, steam-dried, No 1. \$\vec{y}\$ ton. Straw Boards, steam-dried, No 2, \$\vec{y}\$ ton. Straw Boards, steam-dried, No 2, \$\vec{y}\$ ton. Straw Boards, steam-dried, No 2, \$\vec{y}\$ ton.			10100
State, # ton	2,00	@4	5.00
State, \$\varphi\$ ton. Straw Boards, air-dried, Penn, \$\varphi\$ ton. Straw Boards, air-dried, State, \$\varphi\$ ton. Straw Wrapping, basis, 15 \times 20, 10 \text{ b},	5,00	0	-
Straw Boards, air-dried, State, w ton	10,00	@	-
20 sheets—			
86 × 40	1.18		
30×40	1.00	@	
30 × 40	75	0.	
22 x 32	70	@	
20 × 30 16 × 22	46 38	0	55
18×28	40	83	
18×26	45	6	50
48.00	1962		
15×20	23	0	30
14 × 18	23 20	0	21
14 × 18	23	0	21 25
14 × 18 13 × 18 12 × 16	23 20 23	808	21
14 × 18 13 × 18 12 × 16 11 × 16 Straw Wrapping, W B.	23 20 23 23	98/98	21 25 17
14×18 13×18 12×16 11×15 Straw Wrapping. ₩ D. Tea Papers, 16-sheet quires—	23 20 23 18 23	808	21 25 17
14 × 18 13 × 18 12 × 16 11 × 15 Straw Wrapping, W D. Tea Papers, 16 sheet quires— 12 × 18	23 20 23 23	98/98	21 25 17
14×18 13×18 12×16 11×15 Straw Wrapping. ₩ D. Tea Papers, 16-sheet quires—	23 20 23 18 23	98/98	21 25 17

OURNAL.		
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.	13 @ — 131/2 — 11	Alt Alt An Bi- Bi- Bi-
Reds, new Shirt Clippings. Mixed Softs, free of Carpets Seamed Cloth. Light Skirted Cloth Light Skirted Cloth New Dark Clips New Light Clips New Black Clips New Blue Clips	23 65 25 714@ 814 7 @ 714 4 @ 414 5 @ 514 10 @ —	Cla Cla Cla Cla Cla Cla
New Fancy Shirt Cuttings New Fancy Linsey Cuttings New Satinets, clean stock Seams and Satinets	16	Pri Pri Ori Roi Roi
Delaines, stripped for extract Black Shoe Lastings Blankets Wool Carpets Mixed Carpets White Linseys Mixed Carpets Mixed Carpets	2 65 2½ 2½63 3 65 1½ 4 65 4½ 1 50 1½ 3 66 1½65 2	Rose Rose Rose Rose Sal Soc
Rags, Rope and Baggir White Shirt Cuttings, No. 1. White Shirt Cuttings, No. 2. Mill Assorted Whites Unbleached Muslins City Whites City Whites	71460 814 71460 814 61460 614 53460 6 51460 534 5 60 534	Soc Soc Soc Sur Sur Sur Sur Sur
New Cotton Strips, dark. No. 2, Whites Cotton Canvas. Linen Canvas. Country White Rags. Country Mixed	434 434 3	Sul Ult Ve Ve Vit Ye
Seconds (City) Extra. Colors, per 100 B Manilla Rope, Manilla Rope, Manilla Rope, Hemp Rope, Gunny Bagging, No. 1 Gunny Bagging, No. 2 Kentucky Bagging Burlap Bagging, Tar Shakting	234 (6) 234 234 (6) 255 50 (6) 1.00 334 (6) 334 274 (6) 3 412 (6) 5 234 (6) 34	litt
Gunny Bagging, No. 2. Kentucky Bagging Burlap Bagging Tar Shakings Hemp Twine Stock Jute Waste Shavings and Old Pape	294	Mill Cot Gu Gu Ke Ha
White Collar Cuttings, all paper. White Collar Cuttings, muslin lined, White Envelope Cuttings. Hard White Shavings, No. 1. Soft White Shavings, No. 1. White Shavings, No. 2. Mixed Shavings, part white Ledger and Writing.	514@ 6 414@ 5 514@ 6 514@ 514 5 @ 514	Soi Ha Soi Jui Wi Wi Ha
Book Stock, No. 1, light. Book Stock, No. 2, light. Prints	1%@ 1%	Soil William Ma
Bogus Manilias and Hardwares. Commons. Binder's Board Cuttings. Straw Board Cuttings. English Rags. &c.	3 @ — 114@ — 114@ 114 80 @ 1	Ha Str Gu Lir Wi Cor Cor
New Cuttings, cotton . Easex Fines London Fines, cotton. Outshots, cotton Seconds . Seconds Extra Thirds. New Print Tabs .	5 6 - 314 5 6 - 314 3140 324 2340 324 4140 41	Cit Sec Col Ma Bir Cor Oa
Thirds. New Print Tabs Checks and Blues Light Prints Light Fustians Dark Fustians Black Calicoes First Canvas Linen Second Canvas Linen Black Bagging	3540 354 3540 354 2540 254 2 00 254 4 400 414	P F S S T T P S
Second Canvas Linen. Black Bagging Gunny Bagging, No. 1 Gunny Bagging, No. 2 Mixed Bagging, No. 2 Mixed Bagging, No. 1 Rope, Manilla, tarred Jute Ropes Jute Threads English Old Papers and She Hard Shavings, No. 1	8140 451 8140 994 9140 994 9140 994 9140 994 9140 994 9140 994	T, Wit Blu Col
Soft Shavings, No. 1 White and Colored Shavings, No. 1	476@ 414 8 @ 834	Bly Rec Min Can Can Tan Ho
vane and cored Shavings, No. 2. Cream Shavings. Paper-collar Cuttings. Ledgers, Briefs and Letters Newspapers and Pamphlets, extra Old Newspapers. Broken News and Letters. New Books, Solid Folios Old Blank Books.	4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Wit Blu Rec Mis
Old Blank Books Brown Papers White and Buff Railway Sheets Railway Tickets Hamburg Rags, &c. Linen Cuttings. S PFF F square bale		Suj Fir Ra, Ore Str Ma Ore
Linen Cuttings. 8 P F F F, square bale. 8 P F F F, long bale. 8 P F F, long bale. 8 P F F, square bale. 8 P F, square bale. F F, square bale. L F X, square bale. Extra Fine Blue Linen, light color. L F B, square bale. Gunny Bagging, No. 1 Burlap-Bagging, No. 1	55466666666666666666666666666666666666	Ma Boj Str Ha Ha Str Str
COLLOND.		Bir Lei Lei Lei
Shirt Cuttings, square CSPFFF, square bale CSPFFF, square bale CSPFFF, square bale CSPFF, square bale CSPFF, square bale FR, square bale Extra Fine Blue Cotton CFB, square bale Extra Fine Blue Cotton CFB, square bale	314@ 334 314@ 314 314@ 344 314@ 344	Ali Ali Ali Ali Ali Ali
TR (tarred) WR (white) MR (manila) Old Book Paper Old Printed Rooks	374@ 374 374@ 4 384@ 376	Bi- Bi- Bi- Ca Ca
White Shavings Colored Papers Printed Papers Writing Papers	234 @ 434 — @ 234 234 @ 234 — @ 834	Cla Cla Co Ex Lin Pro
Leghorn and Genoa Ra P P, No. 1 Linens. 8 S, No. 2 Linens. 7 T, No. 3 Linens. P, No. 1 Cottons. S, No. 2, Cottons T, No. 3, Cottons R R, linen stripes R, ordinary stripes. R C C B C S. C C	10000000000000000000000000000000000000	Ro Ro Ro Ro Sa Sa So Su Su Su
Whites Alexandria Rags. Blues Colors	2146 274 2146 274 2146 274	Te Uli Ve Vii Ye
SPFF SPF FF FG LFB	54 @ 6 5 @ 54 — @ 44 44 @ 44 45 @ 45	Til
S P F S F F S F F S F S F B Konigsberg Rags S P F F F F F S P F F F S P F F F S P F S P F F F S P F S	514@ 514 514@ 414 814@ 4	Su Fin No Co Ra
LFB. Japanese Rags. Whites. Blues	514@ 514 414@ 414 414@ 414	Or Sti Ble Or Bo Sti Gli
Colors Chemicals, Coloring Materia Alum, lump	214@ 234 214@ 256 als, &c. 214@ — 256@ —	Tis Tis Te

	Alum, porous	3140 240	896
	Anti-Chlorine. Bi-Chromate Potash, Scotch. currency Bi-Chromate Potash, American, cur'y Bleaching Powders, currency Caustic Soda, 60 per cent. gold Clay, China, English, per ton, gold (lay, China, English, to arrive, per	14 6 14 6 1,50 6 436	_
	ton, gold Carolina, per ton 16 Clay, South Carolina, per ton 16 Clay, Terra Alba English per ton 18 Clay, Terra Alba, American, per ton 18 Copperas, American Extract Logwood, currency	8.00 6.1 1.00 6.1 5.00 6.1 1.466 1.1046	18,00
	Prussiate Potash, American, currency Orange Mineral, gold	35 0	70
	Rosins, good s rained, per bbl	2.10	z.50 2.60
	Rosing low N i 2 per hhl	2,20 6	2.50
	Rosins, good, No. 1, per bbl	2.40 . 6	3,00 3,25
	Rosins, pale, per bbl	5.00	8.75 6.00 1.40
	Soda Ash, caustic gold	1.95	
	Soda Ash, refined, gold Soluble Blue	23400	254
	Spanish Brown, dry	1360	134
	Sugar Lead, white	9 0	30
	Sulphuric Acid, 60 degrees Sulphuric Acid, 66 degrees	11/40	
	Ultramarine, gold	20 6	40
ı	Venetian Red, American		194
	Vitriol, blue, currency Yellow Ochre, gold	920	134
	BOSTON MARK	ET.	7
d	General trade continues quiet wit	th much	

6	Ultramarine, gold	20 @ 40	
á	Venetian Red, American	1360 -	94
4	Vitriol, blue, currency Yellow Ochre, gold	938@	34
6		Tarra	,
6	BOSTON MARK		
6	General trade continues quiet, wi little improvement in demand.	th perhaps	-
6	Paper Stock.	to I	:
. 1	Mill Assorted Whites	5%0	34
4	Cotton Canvas, No. 2	8%6 4	1
	Gunny Bagging, No. 2	2 6 5	12
	Hard Woolens, old	10 4 6 1	36
1	Hard Woolens, new	8160 8	
4	Mill Assorted Whites Cotton Canvas. Cotton Canvas, No. 2 Gunny Baggings. Gunny Baggings, No. 2 Kentucky Bagging, No. 2 Kentucky Bagging Hard Woolens, old Soft Woolens, old Hard Woolens, new Soft Woolens, new Jute Butts. White Collar Cuttings White Envelope Cuttings White Envelope Cuttings, No. 1 Soft White Shavings, No. 1 White Shavings, No. 1 White Shavings, No. 2 Mixed Shavings, No. 3 Mixed	2766	
8	White Envelope Cuttings	5460	36
	Soft White Shavings, No. 1	4%C	34
4	Mixed Shavings (¾ white) Imperfections	8 0 -	
	Light Prints. Manilla Envelope Cuttings, new	2946 1	16
6	Light Prints. Manilla Envelope Cuttings, new Manilla Papers, old. Hardware and Manillas. Straw Board Cuttings.	1 0 1	N.
6	Straw Board Cuttings	1 6	184
•	Gunny Bagging. Linen Canvas. White SLirt Cuttings Country White Rags. Country White Rags. City Whites, No. 2. Seconds. Country	41/40 0	
	Country White Rags	5446	34
	City Whites, No. 2	4140 1	16
6	Colors. Manilla Rope Binders' or Tar Board Cuttings. Common Papers.	946 S	M
4	Binders' or Tar Board Cuttings Common Papers Oakum Junk	166 -	
2	ridiip hope	84G 8	Į,
2		68400 7	i
8	P P, No. 1 Linens 8 S, No. 2 Linens T T, No. 3 Linens T T, No. 3 Linens P, No. 1 Cottons S No. 2 Cottons T No. 3 Cottons	53465 6	tag
6	P, No. 1 Cottons S No. 2 Cottons	3440	H
2	T, No. 3 Cottons	3144 3	16
6	Whites	- 0	-
8	Blues	240 3	96
4	Smyrna Rags.	27600 3	1
•	Blvies	2220 1	
9	Mixed	6 1	36
	Mixed Canvas, No. 1 Lanvas, Good Tarred	3 2 -	
2	mobe	- 2 - 0	
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-	Whites	2940 -	,
2.4	Whites	340 — 240 — 240 —	
F 15-16 9-1-1	Whites Blues Reds Mixed	340	
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THE WE WELL THE BUY THE	Whites Blues Reds Mixed New Papers. Superfine Book Fine Book Fine Book Ordinary Rag News Straw News. Manilla, Cream, No. 1 Ordinary Wrapping Manilla. Manilla, No. 2 Bogus Straw Wrapping Many	3940	16 1616
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	Whites Blues Reds Mixed New Papers. Superfine Book Fine Book Fine Book Ordinary Rag News Straw News. Manilla, Cream, No. 1 Ordinary Wrapping Manilla. Manilla, No. 2 Bogus Straw Wrapping Many	3940	16 1616
4	Whites Blues Reds Mixes New Papers. Superfine Book Fine Book Fine Book Rags News, No. 1 Ordinary Rag News Straw News. Manilla, Cream, No. 1 Ordinary Wrapping Manilla. Manilla, Nc. 2 Boguts Straw Wrapping Manilla. Manilla, Nc. 2 Hardware, No. 2 Hardware, No. 2 Hardware, No. 2 Hardware, glazed Straw Boards, air-dried, \$\psi\$ ton Eather Boards, \$\psi\$ ton Leather Board, \$\psi\$ 0. 2.	19, 41 20 19, 41 20 19 40 11 19 40 18 10 40 18 10 40 18 10 40 18 10 60 11 10 7 60 10 10 67 70 0 10 67 70 0 10 67 70 0 10 70 0	16 1666
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0 N NOWHER DAY D	Whites Blues Reds Mixes New Papers. Superfine Book Fine Book Fine Book Rags News, No. 1 Ordinary Rag News Straw News. Manilla, Cream, No. 1 Ordinary Wrapping Manilla. Manilla, Nc. 2 Boguts Straw Wrapping Manilla. Manilla, Nc. 2 Hardware, No. 2 Hardware, No. 2 Hardware, No. 2 Hardware, glazed Straw Boards, air-dried, \$\psi\$ ton Eather Boards, \$\psi\$ ton Leather Board, \$\psi\$ 0. 2.	39, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40	16 16 16 16 16 16 16 16 16 16 16 16 16 1

PHILADELPHIA MARKET.

Paper Market. **89988988888** 16 14 12 11 10 14

126			
Tes Papers, 13 × 18. Tes Papers, 12 × 16. Tes Papers, 12 × 16. Straw Boards, att-dried, \$\eta\$ ton. \$\text{Straw Boards, att-dried, \$\eta\$ ton. \$\text{Bindess}\$ Boards, att-dried, \$\eta\$ ton. \$\text{Bindess}\$ Boards, att-dried, \$\eta\$ ton. \$\text{Bindess}\$ Boards, \$\eta\$ ton. \$\text{Bindess}\$ Board \$\eta\$ White Rays. \$\text{White Binit Cuttings, No. 1}\$ White Shirt Cuttings, No. 1 White Shirt Cuttings, No. 2. \$\text{Coton Canvas, No. 1}\$ Coton Canvas, No. 1. \$\text{Coton Canvas, No. 2}\$ Linen Canvas, No. 1 Blues and Thirds \$\text{Cotors}\$ Jute Butta Black Colors \$\text{Gunny Bagging, Kentucky Bagging, Kentucky Bagging, Kentucky Bagging, Kentucky Bagging, \$\text{Manila Rope}\$ \$\text{Bords}\$ Hard Woolens. \$\text{Hard White Shavings, No. 1}\$ Bort White Shavings, No. 1. \$\text{Mixed Shavings, No. 1}\$ Mixed Shavings, No. 1. \$\text{Mixed Shavings, No. 2}\$ White Collar Cuttings, paper \$White Collar Cuttings, paper \$\text{White Collar Cuttings, pape	40 @. 35 @. 50.00 @. 50.00 @. 50.00 @. 55.40 @. 55.40 @.		
White Rags	5 Q.	534	1
Mill Assorted White Rags	55/6@ 57/6@ 7		1
White Shirt Cuttings, No. 1	7 @ 614@	0346	ľ
Cotton Canvas, No. 1	5 @	516 414	Г
Linen Canvas, No. 1	444		
Colors	314 6		
Jute Butta	2740		,
Gunny Bagging	11/4/0 25/4/0 41/4/0	294 434	1
Manila Rope	3120		
Boff Woolens	8 @ %@ 5 @	10	
Hard White Shavings, No. 1	5 0	R.	
Bort White Shavings, No. 2	4 @ 314@	414 314 216 514	
Mixed Shavings, No. 1	2740	212	1
White Collar Cuttings, paper	5 @	414	1
Bolid Imperfections	374@ 336@	4	1
Unbleached Shoe Cuttings	4140	41/2	
No. 1 Prints, News and Writing	214@ 214@ 156@	284	1
Ordinary Prints	1580	134 334	1
Manilla Papers, No. 1	314@ 21/@	296	١,
Birdware and Maninas. Birdware Board Cuttings Binders' Board Cuttings	11466	136	1
Binders' Board Cuttings	40	74	1
Common Papers Leghorn Rags.	6 6		1
8 S. No 2 Linens	51448	6146 574	-
R R.	5 63	494 514 594	
P. No. 1 Cotton		594	1
T, No. 3 Cotton	275 G	8	,
White Linen Sicily Rags	3946	33,8	1
P.P. No. 1 Linens. S. S. No. 2 Linens. T.T. No. 3 Linens. T.T. No. 3 Linens. B.R P. No. 1 Cotton S. No. 2 Cotton T. No. 3 Cotton B. No. 4 Cotton White Linen Sicily Rass. Russian Rags. S. P.F. L.F.B. E. E.	5 6		1
LFB	41400	434	
LL. Chemicals	4 6		
Aluminous Cales gold	2 0	-01/	8
Alum, Concentrated, Red Star	21/6/G 21/6/G 21/4/G	284	0
Alum, lump, currency	254 (3)	212	ì
Alum, potash, currency	2140	266	V
Anti-Chlorine	4 6		
Caustic Soda, gold	1140		
China Clay, English, \$\forall \text{ton, gold 10} China Clay "Star."	5.00 @ 2 1.50 @ 1	1.00 6,50	
China Clay, American, # ton, cur'y le	0.00	4.00 4.00	6
Terra Alba, English, & ton, best white 2	0.00	4.00	Ä
Aluminous Cake, L Brand, currency Alum, Concentrated, Red Star. Alum, lump, currency Alum, ground, currency Alum, poround, currency China Clay, English, ¥ ton, gold China Clay, "Star,, currency !c China Clay, "Btar,, currency !c China Clay, "Btar,,,,,	0.00 @ 1	2.00	2
Prussiate of Potash, yellow	12140	13	1
Bichrome of Potash, Scotch, currency Coppersa, American, prime Extract Logwood. Orange Mineral, gold. Rosin, good strained. Rosin, No. 2. Rosin, No. 1. Rosin, Pale Bicker, Survy	11/4/0	134	11
Orange Mineral, gold	10 6		8
Rosin, No. 2	1.20 (4	2,25 2,40	n
Rosin, No. 1	1.00	5.00	e
Code Ask secretic flow 40 90 cont mold	1346	1146 136	b
Soda Ash, carb. gold	1340	-78	
Spanish Brown	11/6@	134	
Sugar of Lead, white	7346	81	-
Ultramarine Blue, gold	11/20	30	,
Veneties Red Thelish	1140	136	70
Vellow Ochre, American Vellow Ochre, French, gold	740	736	f
Yellow Ochre, American	940	436	d
-	IZ From		
CINCINNATI MAR	KET.	18	-
Paper Stock.		Centa.	

	CINCINNAT	I MARKET.
1	Paper Cents. City, No. 1 Whites 41/2 Mill Assorted Whites 42/2 Mill Assorted Whites 41/2 Mill Country Whites 41/2 White Shirt Cuttings 7 Country Whites, No. 1 Country Whites, No. 3 Country Whites, No. 3 Country Hue Rags 3 Country Hue Rags 3 Country Hue Cotton Rags 91/2 City Mared Cotton Rags 95/2 City Mared Cotton Rags 94/2 Manilla Rope 94/2 Gonny Bagging 94/2 Gonny Bagging 41/2 Gonny Bagging 41/2 Gonny Bagging 15/4 Hard Woolens, new 151/3 Country Woolens, 151/3 Cott Woolens (Mill) 94/3	Stock. Cents. Soft Woolens, mixed City 0 Common Wool Rags. 13/2 White Shavings, No. 1. 44/2 White Shavings, No. 3. 3/2 Colored Shavings. 3 White Collar Cuttings 6 White Envelope Cuttings. 44/2 Manilla Envelope Cuttings. new 3 Manilla Papers, No. 1. 39/3 Manilla Papers, No. 2. 3/4 Sized Papers News Papers. 29/2 Flour Sacks 44/2 Common Papers 90 Straw Board Cuttings 90 Sinders' & Tar Board Cuttings 90 Mill Bagging, No. 1. 34/3 City Gunnies, No. 2. 3/4
	CHICAGO	MARKET.

Eags and F Cents. City Whites, No.1 5 @516	aper Stock. Cents Mixed Shavings. 344334
Beconds & Blues 4 (24)4 Print Rags. No. 1 24(2)3 Manila Rope 374(2)376	White Shavings (H & S) 4 @434 Book Papers,
Gunny Bagging. 21/@3 Hard Woolens. 2 @3 Soft Woolens,	mixed
Wrapping Wins 146 % New Clips (free front nation 12 @18	Manilla Papers., 2 @3 Common Paper. 34@ 4 Straw Brd Chips 34@ 4 Seamed Cloth 544@6
From sati12 @18	Seamed Cloth 578(26

FOREIGN MARKETS. English Chemical Market.

MANCHESTER, April 5, 1878.

J. Berger Spence & Co., under date of April 5, report: "In reviewing the business progress in Chem-ical matters during the past month, there are some small seeds of satisfaction to be gleaned by manufacturers in the movements a few articles have made We do not wish to be understood as expressing an opinion that manufacturers have reason to congratulate themselves on the month's business, but its experionce has taught that, notwithstanding the un-lection condition of trade, the ruinous prices ruling, and the general tendency to view the future with distrust, trade is in a sufficiently healthy state to enjoy fully, and make the very utmost of, any stim-ulus it may receive, however slight. This has been proved by the determined firmness which has at eriods during the month attacked several articles is response to a comparatively slender impetus, and it is but reasonable to infer, without indulging in any extravagant hopes, that were the disturbing apprehensions of war removed, a general improve would result. The production has been susta and the exports compare favorably. Prices have the manufacturer been most unsatisfactory, but the AMEURANCE of peace, and the generation of a spirit of speculation, would do much for them. During the past week Cream Caustic Soda has undergone no change. White Caustic Soda has rather weakened, and is more generally obtainable on the lowest terms. and is more generally obtainable on the lowest terms.

Bleaching Powder is comparatively firm, although more plentiful.

London Market Report.

LONDON, April 6, 1878. Trade during the week showed some considerable improvement. Paper-makers, although still stock

taking, came more into our market, and nearly all grades of stock moved more freely. From Russian ports shippers ask an increase in prices. Higher rates of freight are asked from these ports on account of the threatened war with this country.

RAGS.-Fine White Linens moved freely, as well as the middle and low classed grades of Linen Rags at latest prices. Buyers were afraid of a rise, and some heavy contracts for prompt and for forward delivery were closed. Low graded Cottons were also

GUNNY.-Although there is a rumor that prices have receded, it is not noticeable in our market.

Anything offered is taken at full prices by dealers.

WASTE PAPERS—Were also more looked after, in sympathy with other stocks for paper-making.

Advertisements.

A SSISTANT FOREMAN WANTED IN A pleasantly situated and healthy town in Canada. An Assistant Foreman who can take full charge of the Engine, Machine and Finishing Rooms. Class of papers made being News, Book, Cheap Writings and Cover and Poster Colors. Material used principally Chemical Wood, but with some Mechanical Wood, Old Papers and Rags. Applicants will please give particulars as to their capabilities, and give reference as to character and ability, also state salary expected. None but the strictly sober and industrious need apply to DRAWER 1946 P. O., Montreal, Can.

A Large Paper Manufacturing Company, Sized and Calendered Papers a Specialty, wants to engage the services of a man thoroughly acquainted with the trade in all its branches, to represent it in New York City. An unusual opportunity is offered the right man. Applicants can address in strictest confidence, H. C. K., P. O. Box 5514, New York.

WANTED-BY A STEADY MAN A SITUATION as MACHINE TENDER. Can give good references. Address, G. F., No. 166 Washington street, New York City.

Wanted. A Position in a Paper ware-house by a gentleman having conducted the business many years; or with a manufacturer of writing or Book Papers. Address EXPERIENCE, P. O. Box 2218, New York.

FOR SALE.-PAPER MACHINERY. Three Making Cylinders, Seven Drying Cylinders, two sets Press Rolls, two Stacks Calenders with two extra Calender Rolls, Reels and Continuous Feed cutter, with Driving Gear complete, for a 42-inch Paper Machine. Also four Engine Rolls, 27x30 inches, with stands and lighters complete.

Will be sold cheap for cash or approved paper.

Apply to ADAMS & CO., Chagrin Falls, Ohio.

PAPER MILL PROPERTY FOR SALE,

STUATED on Shore Line R.R., 3½ miles from Madison Depot and four miles from wharf, in the town of Killingworth, Conn., consisting of a Paper Mill partly destroyed by fire, leaving four engines, two water wheels, shafting, new 80-horse boiler and new cylinders undamaged, and the machine but slightly. Also five dwelling houses and one hundred acres of land; large pond, good stream, with 30 feet fall, with chance to make it 42 feet. The above prop-erty will be sold CHEAP. If not sold by May 10, it will sold at auction sale on the place at 2 o'clock P. M. For particulars enquire of

H. L. PINNEY. Hartford, Conn.

FOR SALE CHEAP.

IX second-hand Beater Engines, with 44-inch bar; roll 42 inches diameter, and 9-inch spindle; also, four Washer Engines, with 48-inch bar; roll 44 inches liameter, and 10-inch spindle.

For particulars call or address, E. D. JONES, Pittsfield, Mass.

J. G. MACKINTOSH & CO.,

Bankers,

HOLYOKE, MASS.,

Dealers in FIRST-CLASS COMMERCIAL PAPER. Notes of Paper Manufacturers a Specialty.

GLENS FALLS MarbleLime

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

Osborn & Robinson, AGENTS.

87 Dey Street, N. Y.

STOUT, MILLS & TEMPLE,



GEARING AND SHAFTING Rag Engines, Wood or Iron Tubs, Rag Cutters, Dusters,

Pumps, &c.

THE AMERICAN TURBINE, as recently improved, 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. CONLEY'S

Mill and Machinery Agency.

FOR THE PURCHASE, SALE, OR EX-CHANGE of PAPER' COTTON, WOOL-EN, GRIST and OTHER MILLS.

· ALSO, MACHINERY, MILL SITES and PRIVILEGES.

Estimates given for New Machinery at very much lower prices than can be obtained elsewhere.

Parties having any kind of Machinery o Mill Property which they desire to sell, will please send a list and description of the same to the undersigned, who offers for sale a large line of Paper-Making Machinery and Mills, including the following:

One 62-in, and one 36-in, Fourdrinier Machine. One 36-in, one 42-in, one 48-in, one 52-in, and one 62-in, Cylinder Machines. One 62-in, Wet Machine, complete from stuff chest

one 62-in. Cylinder Machines.
One 62-in. Wet Machine, complete from stuff cheşt to press.
One hundred and twenty-seven Skeleton Dryers, 36 in, by 80 in., with pulleys, gears, &c., all complete and nearly new, used in drying animal-sized writing papers.
Three Hydraulic Presses—one 32 × 50 platen, 8 in. piston, 6 ½ feet opening; two 36 × 48 platen, 10 in. piston, 6 ½ feet opening; two 36 × 48 platen, 10 in. piston, 6 ½ to 10 feet opening.
Six Chilled Calender Rolls, 12 in. diameter, 28 in. long on face.
Five stacks Super-calenders—one six rolls, 24-in. face; two four rolls, 24-in. face; one five rolls, 24-in. face; two four rolls, 24-in. face.
One 62-in. Kneeland Layboy.
One stack of six Super Calenders, 31-in. face.
Four stacks of Straw Board Calenders, from 30-in. to 40-in. face.
One 30 H. P. wo-cylinder Engine, cylinder, 14 × 30, Chubbuck's pat, packing; four two-flue Bollers, 30 Chubbuck's pat, packing; four two-flue Bollers, 31 Al. P. and 4 H. P.; one 3 H. P. Green Engines—10 H. P. § H. P. and 4 H. P.; one 3 H. P. Roper Caloric Engine.
One Waters' Feed-water Heater will supply a 55 H. P. Boller.
One Waters' Feed-water Heater will supply a 55 H. P. Boller.

J. M. Pole & Co. Engine. Cylinder, 12×18; three Baxter Engines—10 H. P. & H. P. and 4 H. F.; one § H. P. Roper Caloric Engine.

One No. H. P. Roper Caloric Engine.

One No. I Wright's Plunger Pumps; two Holly Fire Pumps; two Rolly Fire Pumps; No. 2 Perry Centrifugal Pump; two Rolly Fire Pumps; No. 2 Perry Centrifugal Pump; two Rolly Fire Pumps; No. 2 Perry Centrifugal Pump; two Rolly Fales Centrifugal Pump, Junger 6 × 10 inches.

A Brass Stuff Pump, plunger 4 × 10 inches.

Four Sturtevant Blowers.

One large Steam Pump (G. H. Dean & Co.); one 8-in. (Watson) Brass Pump for Artesian well, with 275 feet of rubber-lined pipe and all fixtures; cost, \$3,700; is nearly new, and will be sold cheap.

One No. 4 Blake Boiler Feed Pump.

Two Devil Dusters.

One Rag Thrasher.

Two 48-in, one 54-in, one 62-in, and one 84-in, Paper Cutters; one 62-in. Hatch Cutter; one 62-in. Stop Cutter, built by Smith & Winchester.

One Standing Press, with gun-metal screw, plate 18 in, by 48 in; one Screw Paper Press, screw 8 feet long, follower, 31 × 60; one Screw Paper Press, screw 7 feet long, follower, 31 × 60; one Screw Paper Press, screw 7 feet long, follower, 31 × 60; one Screw Paper Press, screw 7 feet long, follower, 31 × 60; one Screw Paper Press, screw 7 Two Holyoke Trimming Press.

Two Snow's Water-Wheel Governors.

Two Hartford Governors: nearly new.

One 40-in, Leffel Water Wheel Case.

One Holyoke Expanding Fulley, 9-in, face, 33 in, diameter.

One 80-in, Winder, with ninety-six Iron Spools, 2 in, by 28 in, 28 i

One 40-in. Leffel Water Wheel Case.

One 40-in. Leffel Water Wheel Case.

One 60-in. Winder, with ninety-six Iron Spools, 2 in. by 38 in.; also, forty Wooden Spools, 7 in. by 38 in.; also, forty Wooden Spools, 7 in. by 38 in.

One set of three Reels, 68-in. face; one set of six Revolving Reels, 78-in. face; one Sizer for a 62-in. machine; one Size Washer, and four Rotary Rag Boilers, 5x16 feet.

Two Beating Engines, 44-48 rolls, with stands, lighters, pulleys, washers and hoops for tub.

One No. 8 Armstrong Heater.

One 11-ift or Elevator Wheel for Cylinder Machine, 41-in. dighters, pulleys, washers and hoops for tub.

One No. 8 Armstrong Heater.

One "Lift" or Elevator Wheel for Cylinder Machine, 41-in. dighter, 17 in. wide; new and complete. About 7,000 Spruce and Pine Loft Poles, 700 of them 10 feet long, the remainder 12 feet 4 in. long.

One W. O. Hickok's Pennsylvania Ruling Machine. Three sets of Press Board Polishers.

One Hoisting Screw, 15 feet long, 4 inches diameter, with spur-wheel and false bottom plate; all complete. Cost \$700, and is entirely new.

One Copper Coli. 70 feet 14-in. pipe.

Five Wrought Iron Tanks, 9 feet diameter, 8 feet high, one-eighth iron; good condition.

Copper Kettle, 425 gallons, 4 feet diameter, 4½ feet high; good as new.

One full set Paper Collar Machinery; capacity 50,000 to 100,000 collars per day.

Two Morris and one Copeland Power Elevators; capacities, 3000, 3,000 and 1,000 pounds respectively.

Ten Printing Presses, different sizes.

Lot of 12-in. and 8-in. Cast Iron Water Pipe; also, lot of Wrought Iron Steam Pipe, 2½, 2, 1½, 1, and ¾-in. diameter.

Paper Mills and Privileges.

24.—A good Print or Manilla Mill, located within 125 miles of New York City, consisting of 5 large stone buildings, 40 acres of land, good water power, and the following machinery: 186-inch cylinder machine, 2500-lb., 1800-lb. and 11,000-lb. engines; 1 Kingsland engine, 1 rotary boller, 2 stream bollers, and everything complete and in good condition. Half-interest for sale for \$15,000.

for sale for \$15,000.

25.—A large Book and News Mill, located within 160 miles of New York City, on an excellent water power, containing 6 rag engines, one Jordan engine, and an 84-inch Fourtrinier machine, and all the necessary machinery for such a mill. Price, \$30,000, on easy payments.

26.—A Mill privilege of 100 horse-power, within 25 miles of Springfield, Mass., well located for making Wood Pulp, and a very desirable piece of property. Price, \$5,500.

97.—A good Mill located in Connecticut, containing one 48-inch Cylinder Machine, three 450-lbs engines, one Kingsland Engine, one Rotary Boiler, and all the necessary machinery to make Manilla Papers; also about eight acres of land and a good water power of 22 feet head; half interest for \$7,500.

28.—A large tract of land in Missouri worth from \$7 to \$10 per acre, in exchange for Paper or a good Paper Mill.

29.—A valuable four-set Woolen Mill, situated near the City of Cincinnati, Ohio. A four-story Brick Building, 100x55 feet, with two brick wings, and brick Engine House, Blacksmith Shop, &c. This mill contains four sets of Machinery, complete, including four Self-Operators; four Hand-Jacks, 294 spindles each, four sets Cards, No. 1, 48-inch; fifteen Broad Crompton Looms, 96-inch, with Gigs, Twisters, Fulling Mill, Presses, Shears, Roll Cards, Grinders, and, in fact, a complete outfit to make first-class goods, all in prime order and for sale on easy terms.

30.—A good Hardware and Manilla Mill, located in

all in prime order and for sale on easy terms.

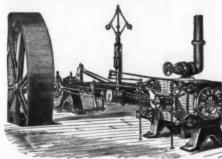
30.—A good Hardware and Manilla Mill, located in Connecticut, containing a 42-in. Cylinder Machine, two 250-75s. Rag Engines, with other machinery to match; also, two dwelling houses and about two cares of land. This property is in good condition, being built in 1871; price, \$10,00.

31.—A good Two-engine Mill, with 48-in. Cylinder Machine, located near Hudson, New York. This property, together with Dwelling Houses, Water Power, and everything to make it a first-class piece of property; can be bought for \$12,000.

EDWARD CONLEY.

5 BEEKMAN ST., N. Y., Room 8.

ROB'T WETHERILL & Co., Chester, Pa.



CORLISS ENGINE Builders.

MACHINERY.

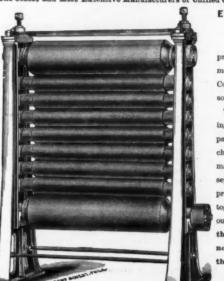
Boiler Makers.

SHAFTING AND GEARING.

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 recommends the same to the United States Centennial 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 improved 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

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

ALSO MANUFACTURERS OF

CHILLED ROLLS

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 for the composition of CHILLED ROLLS. The long experience of Mr. Geo. G. Lobdell in making chilled castings, and who personally directs the selection, enables them to make CHILLED ROLLS UNEQUALED IN QUALITY AND GROUND AS PERFECTLY AS ANY OTHERS

GEO. G. LOBDELL, Pres. W. W. LOBDELL, Sec. P. N. BRENNAN, Treas.



KNIVES FOR PAPER MILLS

Paper Cutting Machinery. PAPER MILL FLY BARS AND BED PLATES.

RAG CUTTER AND TRIMMING KNIVES. LARGE AND DIFFICULT KNIVES A SPECIALTY. All Work Fully Warranted in Every Respect.

Send for Cuts of our

IMPROVED ANGLE BED PLATE, THE BEST BEATING PLATE IN USE.

AYLOR & CORSER, Riegelsville, Warren Co., N. J.

F. S. TAYLOR, G. A. CORSER, TAYLOR, STILES & Co., Musconetcong, N.J. A. HANKEY & Co., Rochdale, Mass.



Address

BELT HOOKS The Best Metallic Belt Hook in the Market for

EATHER OR RUBBER BELTS These Hooks have been thoroughly tried for eight years in all places—in Machine Shots. Cotton, Woolen and Paper Mills—and all who uses them admit that they are the best and cheapest fastening in use, taking into account the durability of the Hook, wear and tear, and time in mending belts.

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WALTER O. TALCOTT,

Successor to GREENLEAF WILSON,

Box 630, Providence, R. I.

"STANDARD" PIPE COVERING

Patented September 25, 1877.

LIGHT, EFFECTIVE, DURABLE.

Not affected by Heat, Water, Acid or Alkali. Especially adapted for use in Paper Mills, &c. A perfect Non-Conductor of I eat.

Correspondence solicited, and information cheer fully given. For Circulars, Testimonials, &c., address

Domestic Refrigerator & Pipe Covering Co.,

430 WALNUT ST., PHILA. \$55 to \$77 a week to Agents \$10 Outfit FREE P. O. VICKERY, Augusta, Maine.

PIQUA FELTS.

Paper Makers' FOURDRINIER FELTS. Coarse and Fine

CYLINDER WET FELTS.

Press Felts and Jacketing

F. GRAY & CO.,

Successors to F. GRAY, O'FERRALL & CO., PIQUA, OHIO.

We warrant every Felt to work well, and if it does not, it can be returned.

SATISFACTION GUARANTEED.

In ordering Felts, give kind of Stock used, and quality of Paper made.

[From The Paper Trade Journal of March 4, 1876.] MIDDLETOWN, O., February 23, 1876.
To the Editor of The Journal:

To the Editor of The Journal:

Much has been said in former numbers of The Journal about the running and durability of cylinder long felts. Grax. O'Fernall & Co. are supplying the best cylinder long felt I have ever had any experience with for wide machines. I think they decidedly excel. They keep their width under a reasonable strain, and when kept clean never trouble with wind marks, never get slack in the middle or edges; in fact, they make paper, with ordinary care, until they are entirely worn out, and it would be well for any one who is troubled with an unsatisfactory working felt of any other make, to try one, and by all means to do so if there is a necessity for fast running.

IRA L. BEEBE NEW YORK AGENT.



MORTON POOLE & CO.

Wilmington, Delaware,

MANUFACTURE

illed Rolls

FELIS.

Cylinder and Fourdrinier WET FELTS, PRESS FELTS,

JACKETS MANUFACTURED BY

H. WATERBURY & CO.,

RENSSELLAERVILLE Albany County, N.Y.

Im In ordering Felts, give kind of Stock used and quality of paper made, and we warrant Felts that

ORDERS PROMPTLY FILLED.

OUR PRICES ARE IN CURRENCY.

"Will send Price List upon Application.

All Felts sent out by us warranted to work well; if not, may be returned.

Rice, Barton & Fales Machine and Iron Co. AT OLD STAND OF RICE, BARTON & CO.,

WORCESTER, MASS., MANUFACTURERS OF

PAPER MACHINERY

OF EVERY DESIRABLE VARIETY,

IRON AND BRASS CASTINGS,

Chilled Iron & Paper Calender Rolls, Rag Engines, Rag Cutters, Steam Pressure Regulators, &c. HYDRAULIC PRESSES, FROM 5 TO 14 INCH PISTON.

GEO. S. BARTON, Prest. Jos. E. FALES, Manager GEO. M. RICE, Treas.

ESTABLISHED 1835.

GAVIT Paper Machine Works.

224, 226 228 & 230 N. BROAD ST., PHILADELPHIA.

FIRST-CLASS PAPER MACHINERY.

OF EVERY DESCRIPTION.

The attention of the public generally, and paper manufacturers particularly, is called to the following specialties, and their patronage solicited:

Fourdrinier Machines, Cylinder Machines,

Patent Cone Pulley Cutters, Heavy Rope and Rag Cutters, with from one to three Knives.

Also on hand, ready to ship,

ROTARY BOILERS OF ALL LENGTHS AND DIAMETERS, PULP DRESSER PLATES OF ALL SIZES OF ORDINARY BRASS, AND PATENT GUN METAL PULP PLATES, HEAVY AND DURABLE. MAKING CYLINDERS OF ALL SIZES. DANDY ROLLS, WOVEN AND LAID. BRASS WIRE CLOTH OF THE USUAL NUMBERS, LENGTHS AND WIDTHS.

EXCLUSIVE AGENT FOR THE SALE AND MANUFACTURE OF THE Patent Hard Rubber Suction Box Covers and Doctor Plates, for the States of New Jersey, Pennsylvania, Maryland, Virginia and West Virginia.

PATENT RUBBER COVERED COUCH & PRESS ROLLS

FULLY WARRANTED IN EVERY RESPECT.

Roll Bars and Bed Plates, both of Laid and Cast Steel.

RAG ENGINES, OF BOTH CAST IRON AND WOOD

Super Calenders of all Sizes and Widths.

CHILLED CALENDER ROLLS

OF SUPERIOR HARDNESS. THE PATENT "GAVIT MACRINE," FOR GRINDING CHILLED CALENDER ROLLS, enables me to give beyond a doubt a perfect and correctly finished roll, the only ABSOLUTELY CORRECT MECHANICAL PRINCIPLE upon which the Rolls should be ground.

Gavit's Patent Noiseless One-Armed Pulp Dresser.

This recent invention is one long sought for by the paper manufacturer, furnishing not only the MOST PERFECT SCREEN, but ridding it entirely of noise. All using them recommend them highly.

MACHINES FOR TESTING ALL KINDS OF PAPER.

A. FURMAN BLAIR,

Proprietor. Oldest Established Fourdrinier Wire Manufactory in America.

FACTORY, BELLEVILLE, NEW JERSEY.

WAREHOUSES, - - - - - -

(90 JOHN STREET, NEW YORK. 703 MARKET STREET, PHILADELPHIA. 6 CALIFORNIA ST., SAN FRANCISCO.

Fourdrinier Wire Cloth, extra heavy and durable. Cylinder Covers, cut from Fourdrinier Cloth. Extra Heavy Canvas Dryers at reduced prices.

Rag Dusters and all other Wire Cloths for Paper Mill use.

Dandy Rolls, Plain and Fancy Designs.

SEND FOR SAMPLES AND PRICES.

Standard Wire Works. EASTWOOD, BUCHANAN & SMITH, BELLEVILLE, N. J.,

Manufacturers of Fourdrinier Wires with Patent Safety Edge. WIRE CLOTH OF EVERY DESCRIPTION.

Cylinder and Dandy Rolls made and repaired, Lettering and Designing on Dandies done neatly and promptly, Cylinder Backs, Faces and Washer Wires made from stock especially adapted for Paper-Makers' purposes.

Felts, Jacketing and Extra Heavy Canvas Dryers at reduced rates.

"CAUTION." The undersigned hereby notify all Fourdrinier Wire Manufacturers and Paper Manufacturers that they patented on October 2, 1877, a Patent Safety Edge for Fourdrinier Wires, and any party or parties manufacturing or having in use a wire, with such Patent Safety Edge, unless manufactured by us, or by our license, will be held responsible for camages sustained.

EASTWOOD, BUCHANAN & SMITH. EASTWOOD, BUCHANAN & SMITH.

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PAPER MANUFACTURERS,

20 South Sixth St., and 11 Decatur St., Philadelphia, Have constantly on hand a full assortment of the following Papers of regular sizes and weights

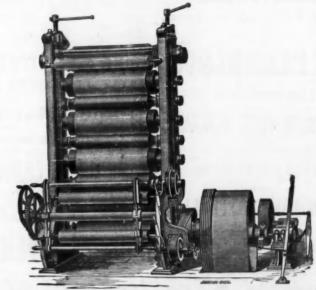
of their own manufacture, viz.: SIZED AND SUPER-CALENDERED PLATE, BOOK, WRITING, MAP, ENVELOPE, COLORED, GRANITE, TINTED, NEWS, MANILLA AND WRAPPING

PAPERS, BINDERS' BO/RDS, ETC., Samples of which will be furnished on application and orders filled with care and promptness.

HOLYOKE MACHINE CO.,

Holyoke, Mass.,

IMPROVED PAPER MACHINERY



Patent Web Super-Calender.

HIGHEST AWARD AT CENTENNIAL EXHIBITION

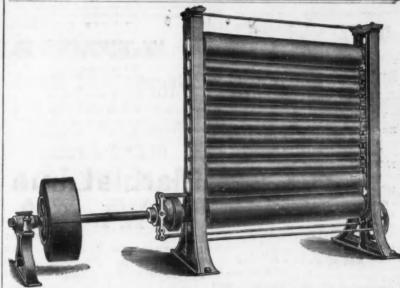
Our Improved Web Super-Calender is a very complete Machine, heavy and substantial in all its parts, which increases the capacity of the Calender, and effects a saving in broken paper. The shipping airrangement is complete, ready to set up and operate.

The paper rolls are made of the best paper, made expressly for the purpose.

Chilled Iron and Paper Calender Rolls, Web and Sheet Calenders, Friction Calenders, Machine Calenders, Platers, Rag Engines, Could's Patent Rag Engines, Hydraulic Presses (5-in. to 18-in.) Piston, Elevators, Rag-Dusters, Thrashers, Trimming Presses, Ham-mond's Patent Stop-Cutter, Ruling Machines with Layboys, Littlefield Power Pumps, Vertica: Power Pumps, Bed-Plates & Roll Bars &c.

ALSO, MANUFACTURERS OF THE Boyden, Risdon, and American Turbine Water Wheels.

Improved Apparatus for Driving Fire-Pumps, Friction Pulleys and Couplings, Shafting, Gearing, and Mill Work of Every Description, Bleach Boilers, Keirs, &c. ILLUSTRATED CATALOGUE SENT FREE ON APPLICATION.



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.

Also to their CHILLED IRON CALENDER ROLLS, which they guarantee to be ABSO-LUTELY PERFECT, both as to hardness and excellence of finish. Address

PUSEY, JONES & CO.,

ARE YOUR MILLS Fully Insured In SOUND Companies?

"As stated before, we want to get out of the hands of our local agents, who omit no opportunity to make us feel that we are paper manufacturers, and that paper mills are burning up at the rate of one a minute."

We can refer to some of the leading Paper Mills, for whom we are SOLE AGENTS.

We can Save you Money.

Blank surveys sent by mail upon application ADDRESS,

ANDERSON & STANTON

Insurance Brokers. 152 BROADWAY.

Wood Pulp, WET or DRY,

Delivered in any part of the country, in quan-

IRA L. BEEBE, 60 Duane Cor. Elm St., N.Y.

ESTABLISHED 1840.

OWEN KEENAN'S SON,

Wholesale Dealer, Packer and Importer of all kinds of

Rags and Paper Stock

JAMES T. KEENAN. NEWEYORK.

BRADNER SMITH & CO.

Wood Pulp.

Straw Pulp. FOR BOOK, PRINT & MANILLA PAPERS.

WHOLESALE PAPER DEALERS.

110 & 112 Madison Street, CHICAGO.

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COMMISSION PAPER MERCHANTS

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PAPER MAKERS' SUPPLIES

French and English Linen and Cotton Rags, and Papers of all grades, on hand and to arrive.

RAGS LEGHORN

OF THE WELL-KNOWN BRAND



and



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

LEE & STURGES.

COMMISSION MERCHANTS,

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FOREIGN RAGS AND PAPERS

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Liverpool Marine Store Co, PAPER STOCK MERCHANTS

72 SOUTH CASTLE ST. Stores: 30 Townsend St., 10 and 12 Hopwood St., and 15 Litherland Alley, Liverpool.

AGENCY IN LO

PACKERS SHIPPERS 4 Celebrated



PAPER STOCK. Manilla and White Hemp Rope, Gunny

Bagging, Jute Stock, &c. Orders solicited. JOHN W. MASON & CO., Agents,

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.

LIBMANN & KORNBLUM, 3 Howard Street. WHILESALE DEALER IN

PAPER AND PAPER-MAKERS' STOCK,

New Linen and Cotton Rag Specialties

Packer of the well- of strictly A1 Shirt known Brand Cuttings.

SERGEANT BROS.,

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

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

ALSO AGENTS FOR The Swan Brand Silesian White and H. & S. Brands Southern Clays,

H. C. HULBERT & CO.,

13 Beekman St., N. Y. IMPORTERS AND DEALERS IN

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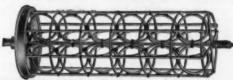
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