

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

VOLUME XII.-NO. 41.

### NEW YORK, OCTOBER 13, 1883.

# Trade Topics.

Machine for Winding Paper.

The drawings present the design of a new machine for winding paper into rolls in an even and uniform manner as it is delivered from the drying-rooms. The machine consists of the combination, with a number of guide-rollers and tension-rods, of a large revolving drum which receives direct motion from the drivingshaft, and which moves the paper forward, in connection with a gravity-roller that presses the paper against the drum. The paper passes from the feed-drum over an intern ediate guide roller to the winding-up roller, to which also direct motion is imparted from the driving-shaft, and on which the paper is tightly wound by means of a pressure-roller.

Figure 1 represents a vertical longitudinal sec-tion of the machine. Figs. 2 and 3 are respectively a rear and a front elevation of the sai

A represents the supporting-frame. At the upper end of which, supported in suitable bear-ings is the driving-shaft B, from which direct motion is imparted by a belt-and-pulley tran mission to a drum, C, and by a second transmis sion to a winding-up roller, D, the shafts of which are supported in bearings at the lower part of the frame. The paper is moved forward by the drum and passed over a number of guide rollers,  $\alpha \alpha' \alpha^3 \alpha^3$ , and smooth intermediate tension-rods,  $b \ b' \ b^3$ , that are supported at the upper part of the frame. The upper guideroller, a, as well as the tensio m-rod b<sup>2</sup>, is provided with latterally-adjustable disks d d, which are set to the width of the paper and serve to guide the mans properly over the guide-rollers. From the guide-roller as, the paper is conducted over a gravity-roller, E, of solid iron or steel, that presses the paper on the circumference of the drum. The gravity-roller turns in adjustable bearings e of of the frame and is set more or less close to the drum, according to the thickness of the paper. The paper then passes around the drum and over a guide-roller,  $a^4$ , at the oppo-site side of the drum, and from the roller  $a^4$  to the winding-up roller, which is secured detacha bly to its shaft by means of laterally-adjustable cal screw-nuts ff. On removing the shaft of the winding-up roller from its bearings, the roller and the paper wound up thereon can be readily removed from the shaft by unscrewing the conical nuts ff. The paper is wound uniformly on the winding-up roller by a pressure-roller, D', that turns in the bearings of the levers D<sup>2</sup>, which are pivoted to the uprights of the frame, as shown in Fig. 1, the pressure-roller serving to secure the tight winding up of the

The essential advantage of this paper-winding machine consists in the fact that the drum receives motion independently from the winding-up roller, so as to produce jointly with the gravity-roller the forward drawing of the paper whereby the winding-up roller is relieved from any strain. As the winding-up roller receives its motion directly from the driving-shaft, the winding up of the paper takes place indepen-dently from the pulling of the paper, so that a more even winding, without any folds or un-evenness in the paper, is the result.

Grinding Caustic Soda.

ally counteract and restrain the deliqu of the caustic soda during the grinding and bolting stages of the process, while it is not. in any degree, practically detrimental to the product.

#### The Position of Jute.

found that this quantity is sufficient to effectu-

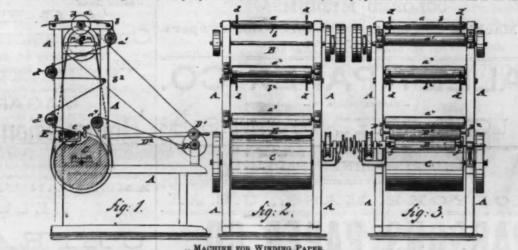
The appended review of the position of jute is taken from the Calcutta correspondence of the Dundee Advertiser of September 28.

Apparently we are on the sve of a great read tion in value of jute as compared with last Our friends will remember that already in April-May last reports from this side indicated that the crop was very backward, and incom-ing supplies of new jute likely to be one month to six weeks later than usual. These advices have been treated with indifference, because the supplies at home and shipments afloat of the abundant crop of last season appeared to spin-ners to be sufficient security against any sudden rise in value. Supplies of old crop rather sud-

200,000 bales, we arrive at a total of 500,000 bales brought forward in excess of last year. In view of these facts, it is not difficult to understand the reserve shown by home consumers to follow the advancing tide in value of this staple. At the same time, when the supply of an article of such large consumption is limited to one quarter only, it is as well to look a little ahead. Now, the estimated consumption of jute in Europe is put down at 150, 000 bales a month, or for the season 1,800,000 bales. The available visible supply in Europe at the commencement of the season has been put down at 500,000 bales, and it is estimated that the probable amount of this season's crop available for shipment to Europe will not be more than 1,200,000 bales, making a total supply of 1,700,000 bales, against a demand of 1,800,000 bales. This, of course, would indicate an absolute deficit before any further crop can mature and be brought to the home markets ; but long before this is realized the rise in prices will have either had the effect of checking the consump tion or drawing extra supplies from the ordidenly began to fail off in May last, though with | narily kept reserves in India. In fact, a very | presses has reduced the bulk of 400 lbs. into the

connection with jute freights. The question of measuring jute bales has frequently caused much irritation between shipowners' agents and jute shippers in this market, and the Calcutta Chamber of Commerce, or at least a section of it, has resolved to carry out a system of sworn measurers to avoid the difficulty. Shipowners agents have agreed to charge the cost of sworn measurers' establishment to the ship. No doubt the attempt will be made fairly and well; but I doubt very much if British shipwners will be altogether pleased with this arrangement, which throws an additional burden upon them without any apparent advan-tages. I am inclined to think that it will lead to many compromises, according to the state of the local freight markets, and that eventually the shipowners will throw this expense upon shippers in Calcutta, in fact upon the cost of jute

Looking back ten years and longer, most of the jute was packed in 300-lb. bales, pressed by screws worked by capstans ; but since that period a rapid introduction of powerful hydra



MACHINE FOR WINDING PAPER.

same m

sen competition for the raw material will have the opening of the rivers in July and August there have been better imports consequent upon the advance in value. Still, however, the total been established in Calcutta between the local mills and the home buyers. quantity available for export has fallen short of previous expectation. Since the commence-

Before we proceed to argue upon this point, let us refer to a statement placed at our disposal by a friend interested in the local trade, which ns to corroborate our estimates, though ar rived at in a more circumstantial manner

CROP 1888-65. Bales. 

1,000,000 d stock of old crop remaining in the 100,000 8,900,000

(Say four million bales). Total.....

CROP 1883-84. crop of this season, according to eports, speak of ½ to ½. No doubt r was much beyond an ordinary district reports, which beyoling an last year was much beyoling an erop, but taking the above as a basis erop would vary from 2,000,000 to 2,5 100,000

Total supply. ocal requiremnative deman 8,000,000 in India for mills a

urement, thereby effecting a distinct saving of freight, or, in other words, the means of laying down jute in the distant European markets at a co siderable reduction of The uniformity of these hydraulic-pressed bales in a great measure compensated the shipowner, and the alteration in the build of ships enabled them to carry a larger cargo. I am inclined to believe that the complaints of shipowners are somewhat exaggerated, and owners are prone to believe that a ship should carry more than she often does ; and the blame for the discrepancy between their ideas and the actual cargo h been laid at the door of the ship-agents, who, to exonerate themselves, throw the blame on dishonest measurements at the press-houses - a state of things which, if true, it was well within the power of the agents and captains to ascertain and check. The discrepancy is probably in a great measure due to the eagerness to dispatch the ships, and thus save port charges, resulting in the goods being indifferently stowed on arriva alongside. A great many firms in Calcutta are connected with press-houses, and a still greater number of individuals are interested as share holders in these concerns ; conflicting interests nly r ag ju ome relief in view, and may be not so far dis tant, by reopening and buoying the river Mutlah as an alternative route to Calcutta, with cheaper port charges and loss expense in shipping than the present tedious and expensive argo boat transmission from the press-h ane to the ship. The government, as well as the railway companies, are getting alive to keen competition rates, in order to reduce the intermedite charges of bulky produce, by bringing railway stations in more direct contact with some of the larger press concerns. It is positively asserted that the railway will carry bales from the press-houses outside Calcutta, thirty miles by rail to Port Canning, alongside the ship in the river Mutlah, at half the cost of the precharge by cargo hoats within the limits of this port, not to speak of the more rapid mode of loading and handling the jute from railway trucks on a jetty into a ship. It is in this dire tion that shipowners and jute spinners shi move for the sake of economy to cheapen the coast of this article in the home markets.

#### WHOLE NUMBER 493.

### Boiler Explosions. BY ROBERT WILSON, C.E.

#### [Continued.]

When one or more portions of a boiler have been separated from the rest, and have been lifted and set in motion by the pressure, it is ceive how the quantity of steam be hind given off from a large body of water at a high temperature can propel them to a great distance. The manner in which large masses of plate are completely flattened out shows that the disruptive force has been exerted in all directions, and not merely in one line to which the first rush of steam and water has taken place, as has been assumed by some writers on mbi

If a cylindrical shell plate gives way by rending through a line of rivet holes, or along a line of grooving or external corrosion, it will greatly depend upon its mode of connection with the adjoining belts of plates whether the rent will exd further than one plate. In the first place, if the rent should occur at a longitudinal seam, either through the rivet holes or at the edge of attner through the rivet holes or at the edge of the overlapping plate, in a boiler where the riveting extends in a continuous line from end to end, it will probably pass right along through several plates, although they may be strong compared with the plate where the fracture commenced. Should, however, the weak line the scheme of the plate as when the stop short at the edges of the plate, as when longitudinal seams break joint, on giving way, the pressure tending to flatten the plate out will cause the rupture to pass through a line of trans-verse rivet holes or tear off the rivet heads, if verse rivet holes or tear off the rivet heads, if the ruptured plate be outside the other plates at the ring seam ; but should the overlap of the fractured plate be inside the other plate, the flattening out will be resisted, and the longi-tudinal fracture will probably extend to the next plate, still retaining a longitudinal direc-tion or striking off in a diagonal direction, ac-cording to the position of the line of lesst resist-ance, which will be varied with the manner in which the plate comes ont. which the plate opens out. Referring to the first of the two cases just con

sidered, such a plate opening out near the crown of a horisontal boiler, or in any part of a loco motive or vertical boiler where the stan water have plenty of room to escape, will prob-ably only cause damage by the issuing contents, the rest of the boiler remaining undisturbed. But if the rent occur where the escaping steam and water come in immediate contact with a heavy inert mass, as when the plates rend inside a flue, the probable consequence will be that the confined steam will prolong the transverse fractures until the boller is separated into two or more pieces, and project, one or all, to sume

Transverse seam rips, which occur most frequently in externally fired boilers, have already been treated of under the head of "Wear and Tear." When these rents occur on the bottom, during the working of the boiler, and the weight of the shell and its contents is very great, the recoil frequently raises one end, when the boller separates, and the lightest or freest portion is projected endways to a distan

The absence of longitudinal stays or tiss in nost externally fired boilers increases the facility of the ends to take leave of each other when once the shell is divided. Should the weight of the boiler and contents be small compared with the pressure, the recoil will probably proj dearer to the home spinner. However, there is sion of the steam will further separate it, and the pieces will fall in different places. If the seam rip be confined to a short length, the pres sure may be gradually released without lifting the boiler from its seat at all. These seam rips on the bottom are a caused by the sudden contraction of the plates on filling the boiler with cold water while the bottom is still hot after emptying. When not detected before the boiler is set to work again, the rent may be gently enlarged as the press rises, and allow the contents to escape gradually without lifting the boiler. Cases have occurred where these seam rips, produced by too sudden cooling, have been of such a size as to allow the water to escape from the boiler as quickly as it entered on attempting to refill. When a horizontal flue tube collapses entirely, without fracturing to any great extent, the pressure is usually relieved by the steam ing through the started seams and small frac' tures. If such a collapse be sudden, there may be a severe concussion of the air, but no violent explosion, the boiler shell remaining unmoved. But should the tube fracture considerably without parting in two as it collapses, the effects may be very serious from the rush of hot water and steam. When the rush is toward the confined back end, the boiler may be projected forward by the recoil ; and, on the other hand, if the contents escape must readily from the front

The difficulty of preparing granulated caustic oda for the market, occasioned by the rapid quescence of the soda upon exposure to the osphere, has led to the adoption of a process delique of grinding it hot or in heated apparatus, or in a highly heated atmosphere. The use of heat tion with such process is, however, expensive and otherwise undesirable; and a method has been devised to simplify the process of grinding or comminuting caustic soda at the ordinary temperature by counteracting and restraining the tendency of the soda to deliquesce during its necessary exposure to the atmosphere. This is effected by adding to the caustic soda dry soda-ash or carbonate of soda, which will absorb the moisture attracted by the caustic soda and restrain its deliquescence. The mass of caustic soda or caustic alkali is

broken up in the ordinary way, and as it comes from the breaker a small quantity of dry sodaash, or carbonate of soda of good color and high test is thrown over the broken mass. This mixture of caustic soda or caustic alkali and soda-ash, or carbonate of soda, is then fed through a mill preferably of the kind known as a "disintegrator," which comminutes or reduces it, and the ground mixture is then bolted in the usual supply-4. s., the stocks in London and Liver-manner. The quantity of the soda-ash or car-pool and shipments afloat-to be in round numbonate of soda requisite for the purpose will not bers in excess of the same period last year-exceed from one to two per cent. of the mass of August 1, 300,000 bales ; and if we allow for a

d as : paratively well. From Serajgunge and Mymensingh we expected at least a five-eighth to three fourth crop, but latterly their advices have be come less favorable. The Daisee crop of jute is reported almost a comple failure; Dowrah good in quality but moderate in supply. There ap pears to be an opinion that by December-Janu ary the shipping season this year will come to an abrupt close

nt of the new mason (August 1), early parcels

ance, but the quality is generally short and

of new jute in small quantities have made their

appearance, but the quality is generally short and stunted in growth; and, in spite of almost daily

advancing prices, the actual imports into the Cal-

cutta market are less than half of the previous

esson. Taking, therefore, into account the

steady demand for local consumption by the mills here, it is not surprising that native balers are

reluctant to make forward contracts, save at prices at which ahippers do not see their way to

put through business. For good native first marks, such as M within double triangle H, Bul-

lob, OMG within double triangle, there are buy-

ers at 25 rs. per bale; but sellers will not meet th

market freely, because loose jute is daily rising in the markets in the interior. The crop ac-counts from the Mofussil still estimates the out-

turn from the Dacca and Naraingunge districts

at about half of a good crop, and the same esti-mate reaches us from the northern districts,

Summarising these various statements makes it pretty clear that the actual shipments this on will fall far short of last year, and it is predicted with some certainty that they will not exceed one-half to five-eighths of the quantity shipped last season. The increased number of looms in and near Calcutta will increase the local demand, and the mills here in the first instance will intercept supplies, so that it is quite on the cards that European buyers holding maelves aloof now may eventually be driven to obtain their requirements at a cost which will enhance itself in proportion to their delay. It will, perhaps, he more easily demonstrated if we adopt figures to show the probable result, and, starting with the statistics given by last mail's advices from Europe, find the visible tic soda or caustic alkali, and it has been | further aness of stock in spinners' hands, say

e and rejections for America. 400,000 

There is no doubt that our local mills are bet ter supplied with jute than they were last year. The half-yearly accounts of seven of our mills show their stocks of jute to be valued at about 500,000 rupees more than for the same time last ear. But we believe that the great proportion of their stocks is in the better sorts of jute, to enable them to work up early arrivals of Dowrah and Daisee. The latter is, however, some what of a disappointment; and of the forme only a limited quantity can be used fresh and newly cut, owing to the inherent gummy sub stance; and the probability is, therefore, that stocks will be used up somewhat faster than has been reckoned upon, especially when with a dull market for bags an attempt is made to keep up high dividends We are thus confirmed in our opinion that from about October, when most of the mills will be eager buyers, we shall see a steady rise in value, as competition will be much more keen than at present.

For the moment prices for jute are still below the average of the last five years by a couple of pounds at home and two to three rupess here; though freights are comparatively easy and likely to remain so. And speaking of the freight market leads me to refer to another subject of some importance to shipowners in | cubical box whose sides are 3 feet 5% inches.

A ton (2,000 lbs.) of anthracite coal, market sizes, occupies about 371/2 cubic feet, and will just fill a cubical box whose sides are 3 feet 41/2 inches. A ton (2,000 lbs.) of bituminous coal, market sizes, occupies about 41 cubic feet, just filling a 488

end, the boiler may not be moved from its seat, but the rush of hot water will be liable to cause all the disasters of an explosion, especially when the boiler is in a confined situation. If the tube on collapsing be broken in two, and its efficacy as a longitudinal stay be destroyed, one or both ends of the boiler may be blown out along with the tube and part of the shell attached, or broken off, where the ends are not well stayed to shell.

In locomotive boilers a collapse of the fire-box top plate or yielding of the crown plate in furnace tube vertical boilers, and fracture round the furnace bottom plate, by which the connec tion with shell becomes severed, are liable to lead to violent explosion, as the reaction consequent upon the downward rush of the contents will carry the boiler aloft.



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### THE PAPER TRADE JOURNAL.

### Correspondence.

#### Boston Brevities,

(FROM OUR REGULAR CORRESPONDENT.]

Bostos, October 10, 1883.

For reliable information concerning the paper trade, one should compile his notes at Holyoke, but your correspondent from that manufactur-ing centre, in your last week's issue, so thoroughly covered the subject that I am content to give the views of the city trade.

The rain of last week was not only welcom by the mill men, but gave the city dealers a little confidence also. The long drought had begun to produce some little anxiety, for although prices had not been to any extent advanced, the supply was growing lass every day and higher prices were certain.

All large dealers had loaded up with heavy stocks and they have been able so far to fill all The only advance noted has been in orders. special ordered sizes and weights, which being out of stock, depended upon the mills, and owing to their irregularity of running, on account of the scarcity of water, the filling of orders was doubtful. In fact, many of the dealers hesitated about taking a quick order under these circumstances. Some of the mills are reported to have been running only on half time, and the daily output was nearly 100 tons short of the mills capacity.

A large dealer with whom I chatted upon the subject gave the mill men credit for being long-headed, and suggested that a short supply meant higher prices-a consummation devoutly wished for by manufacturers. I thought he was very near right in his surmises, when I afterward chanced to meet a paper maker who was on a flying visit to the city, and whose only complaint was that prices were too low. Some mills are credited even now with asking an advance on former rates, as no big stock is on hand. What the future develops will be noted, but one thing is certain-more rain or lass paper. The advance of 10 per cent. on envelopes has

occasioned no alarm among dealers, as most of them put in a heavy stock at the low figures so long prevailing. With the closing of the opposition manufactory at Worcester, envelope makers began to breathe easier and to take coursel of one another. Low prices were the result of cutting each other's rates, and now they have decided to advance prices to a figure that will admit of a profit. This is a movement that should cause no ill feelings for the maker, must prosper, as well as the dealers.

James Logan and George H. Lowe, the gentlemen who started the opposition envelope factory at Worcester some nine months ago, did not at Worcester some mine months ago, did not make such a bad venture as some people at the time supposed. These gentlemen seem fully satisfied with the results, and knowing ones don't seem to think that they lost any money on the plant, while each returns to his former house, getting an interest in future business.

Chas. L. Chapin, of Chapin & Gould, paper nakers, of Russell, spent yesterday in this city. makers, of Russell, spent yesterday in this city. Nothing definite concerning the subject of paper could be learned from the gentleman. To my statement that buyers ware not complaining of prices, Mr. Chapin remarked : "Why should they; it is the manufacturers who ought to com-

The members of the North Carolina Press As sociation, who are on a visit to the city as guests of the American Exposition, were most hospit-ably entertained last night at Young's Hotel by the Boston Press Club. At 6:30 the party was mated at the feative board, and not till midnight did the "funst of reason and flow of soul" ter-minate. All of Boston's prominent journalists were present; many of our city and State officials were among the guests, as were also some of lesser importance, among which number may be classed your humble correspondent. Many of these gentlemen had met before - some twenty years ago-and the many warm recep-tions tendered to each other during that national frolic were reheared last night for the benefit of "rising journalists." The visitors Boston to-day, en route for their severa homes in North Carolina, and carry with them evidences of Boston's appreciation of true A. L. D. valor.

#### Holvoke Notes.

[FROM OUR REGULAR CORRESPONDENT.] HOLYOKE, Mass., October 11, 1888.

The wheels are flying and everything is spinning at the paper mills this week. With plenty of water and lots of orders to fill, the machin are all rattling off the paper as fast as Holyoke machines (which are not slow) ever did, except in those mills which have taken advantage of the dull season to make extensive repairs. The Parsons and Whiting mills are not yet running full, but the latter will soon be adding the usual or more than the usual amount of paper to the city's product. By plenty of water this week I do not mean that all danger of a continuation of the drought is over. The river has kept up since last week's rain, but no water has gone to waste; if it rises in the night above the top of the dam, the fiash-broads hold it back. This week has so far been dry, and, as there is no reserve to fall back on, a few days more with-out rain will send the water down again. With the Connecticut rolling down a full stream, and the smaller rivers around us all running plentifully, the paper makers of Western Massa-chusetts would do their share in filling the marchneets would do their share in miling the mar-ket with paper once more, and then look out for another dull spring. Why do they not all make extraordinary efforts to pash American paper in foreign markets ! That seems to be the only way out of the difficulty caused by too many mills. Every year, yes, every month, adds to the producing capacity of the paper mills, such is the rapidity with which they seize upon every improvement and make every possible addition

in equipment. The country does not grow fast which seemed hurriedly written and had a sort enough to consume the increasing quantity of paper that is made, and either a foreign outlet must be found or we shall have frequent seasons

In last week's JOURNAL "Dandy," appears to be a little at sea about the new rag cutter in operation in this city. It is a mistake to speak of it as a hidden machine, for I know every one is allowed to see it. The Holyoke paper mills are always open to visitors, whether in the trade or not, as thousands can testify, and no different policy is pursued in regard to this machine. I can't think of any practical way in which "Dandy" can see it without coming to Holyoke, unless he waits till the machine is introduced in some mill nearer him. I cannot tell why the inventor doesn't have drawings of the machine published, but I have an idea he is too busy to think of it. If "Dandy" can-not find any patent, I can assure him, from what I know paper makers say about the cutter, that it would pay him to make a hundred of the machines right away. No one can hinder him if he "cannot find a patent." "Dandy" thinks that it is rough on the rag women. That is what we always hear on the invention of every labor-saving machine, and yet, in the end, every such piece of machinery more work, and the world is better employed to-day than ever, in spite of all of our machinery. On his way to Holyoke, "Dandy" can stop at Springfield and learn all about the

Taylor cutter. Another labor-saving machine, which pros much, is J. C. Kneeland's paper feeder for rul-ing machines, &c. A working model, large enough to take sheets up to 24x36, has been in operation in this vicinity several weeks, during which time it has not missed a sheet nor taken up more than one at a speed of from 60 to 80 sheets a minute. It has been examined by a good many of the Holyoke paper makers and others, and the vertics seems to be flattering. "Joe" is the inventor of the layboy on the Fourdrinier machine, an ingenious and most Fourdrinier machine, an ingen useful contrivance.

The Supreme Court of the United States has this week decided the case of Henry D. Cone against the Whiting Paper Company and the Morgan Envelope Company, which has been so long open. The decision is the same as in the lower courts, against the plaintiff, leaving him full costs to pay. The Whiting Company got up a cheaper way of making corrugated paper years ago, and Cone claimed that his rights were infringed upon, but there have never been many doubts about the merits of the case.

A. E. Smith, who left the Winons Paper Mill to play ball with the victorious Bostons, thinks he has had enough of that fun and has engaged take charge of B. F. Hosford's news paper mill at Bridgeport. He refused an offer of \$2,000 to play with the Detroits next season.

Paper makers will indorse the following : "Don't conduct correspondence on postal-cards. A brief business message on a postal-card is not out of the way, but a private communication on an open card is almost insulting to your corre-spondent. It is questionable whether a note on a postal-card is entitled to the courtesy of a rese."\_Don't. H.

The	Metropolitan	Daily	Press

X.

The New York evening papers, with two or three exceptions, are journals of comparatively recent origin. Subsequently to 1965, several evening papers were started, notably the *Ga-zette*, the *Mail*, the *Globe*, the *Republic*, the *Free*\_*Press*, the *Telegram*, the *Leader*, the Graphic, the Commonwealth and the Evening Times. The Telegram and the Graphic only re-The News, the Post, the Express (now main. consolidated with the Mail), and the Commer cial Advertiser are the oldest evening papers in the city. The evening (English) press is at pres-ent composed of the Post, the Graphic, the Telegram, the News, the Commercial Advertises and the Mail-Express.

THE MAIL-EXPRESS

In alluding to the history of the Mail-Ezepress, it will be necessary to speak of the history of the journals whose individuality were swallowed up by that paper.

The Express was started by James and Eras-

tus Brooks on June 20, 1836, as a Whig paper. The Express was somewhat remarkable for its The Express was somewhat remarkable for its L. D. Burch, Kansas City, Mo... politics, its numerous editions and its editorials W. S. Riches, St. Louis, Mo....

of homely vigor. It issued for a long while in the earlier part of its career both morning and evening editions, but the morning edition was subsequently suspended, when it became an clusively an evening paper. A few years be fore its consolidation with the Muil it drifted into the ranks of the Democracy, when it fell into the hands of John Kelly, the well-known leader of the Tammany Hall Society. The Evening Mail was a pleasant ten-table paper, edited by Jonas M. Bundy. It was rather inde pendent in politics. A short time before the con solidation of the two papers the Mail was pur-chased by Cyrus W. Field, who a year or ago bought the Express. The Mail-Express is at present owned by him, and Major Bundy, who was attached to the Mail in its early history, is the editor of the new paper.

#### THE POST.

The Post was first issued on November 16 1801. It was a Federal paper, and such men as Alexander Hamilton and John Jay aided in its establishment. Indeed, it was considered an organ of Hamilton. It was edited by Willi Coleman, a Massachusetts journalist. John Bigelow purchased an interest in the Post in 1848, and added largely to its prosperity. In 1826 William Cullen Bryant, who became distinguished as a poet, began to write for the Post, and afterward became its editor and proprietor. Mr. Bryant's death occurred a few years ago. The paper is now published by a company of stockholders, and Carl Schurz, formerly a member of the United States Senate and late Secretary of the Interior, and a distinguished political writer and orator, is its chief

#### THE COMMERCIAL ADVERTISER.

The Commercial Advertiser is the oldest daily newspaper in the metropolis. It was started in 1794 by Zachariah Lewis. In 1816 its circula-tion had reached 1,200. It is devoted mostly to mercial matters, but also makes considerable pretentions as a newspaper. It is a sheet similar to the Journal of Commerce, with the exception that it publishes more news than that paper. Latterly, its editor and proprietor has en Hugh J. Hastings, one of the old-time journalists. He became connected with the paper in 1869. It was then under the direction of the late Thurlow Weed, who, being ill, soon after retired, when Mr. Hastings secured a controlling interest, took the helm, and made it a lively shust. Its circulation wonderfully in-creased under his management, and the paper became a first-class paying property. It is stated on good authority that Mr. Hastings not long ago refused \$500,000 for his interest in it.

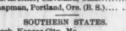
The Advertiser recently lost its distinguished editor by death. The future editorial and busi-ness management of the paper has not been an-

The daily circulation of the Commercial Adrtiser probably does not exceed 20,000. ----

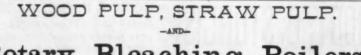
#### Mortgages, Etc.

Mortgagor. NEW YORK CITY.	Amount.
C. W. Adam (R.)	
Ferguson & Shine	
Schmidt & Co. (R.)	
Emil Steffens (R.)	
L. S. Streep	
H. A. Thomas	7,000
EASTERN STATES.	
Frederick H. Davis, Boston, Mass	8,000
Joshua Wilson, et ux., Boston, Mass	
P. J. Lawler, Boston, Mass	65
MIDDLE STATES.	
Chas, A. Jacobson, Brooklyn, N. Y	5.000
John Singel, Syracuse, N. Y. (Real)	
C. E. Johnson (C. E. Johnson & Co.), Phila	
phia. Pa.	1.009
WESTERN STATES.	
Geo. M. Glassco, Tuscola, Ill. (Real)	500
Bledinger & Diem, Cincinnati, Ohio (Real).	
E. N. Jenkins, Denver, Col	
Cady, Barstow & Co., Chicago, Ill	
John Gross, Ottawa, Ill	
H. B. Corwin, Peru, Ill	
J. C. Morgan, Council Bluffs, In	
J. C. Morgan, Council Bluffs, Ia	1945

J. C. Morgan, Council Bluffs, In. Geo. W. Pattison, Detroit, Mich. (R.). Joseph A. Kreitler, Cleveland, Ohio. W. S. Chapman, Portland, Ore. (B. S.) .... 4,000



GUARANTEE SATISFACTION. 30 DAYS' TRIAL



# Rotary Bleaching Boilers.

Those who have unsafe Rotary Boilers in use can exchange them for the Loring Patent Rotary, and can be furnished with abundant evidence that the Loring Boiler is absolutely safe, and the only safe Rotary Bleaching Boiler in use. For the production of chemically prepared wood-pulp it has been found extremely difficult to make a boiler that would remain absolutely tight for any considerable length of time. I have accom-plished this result by adopting modes of construction far in advance of the best methods for producing first class boiler work, in combination with substances and methods en-tirely independent of boiler work, and only known to myself. I invite special inquiries in regard to my patent Wood-rule BOILERS, patent STRAW-Pull BOILERS, and Rotary Bleaching Boilers ; also to my patent process for extracting water from wood and straw pulp, and to my improved Fibre or Drainer Tanks, and Fibre Valves. The common steam boilers built by the undersigned have proved more durable and safer than those of any other manufacturer in the United States. Steam boilers, now in good condition, that have been in constant use twerty-eight years, can still be seen in use in Boston. Not one of the many thousand boiler, varying in weight from one-half to forty tons, has ever exploded or given out, to cause in jury to a single person or to one dollar's worth of property, during the twenty-eight years.

#### HARRISON LORING, Boston, Mass.

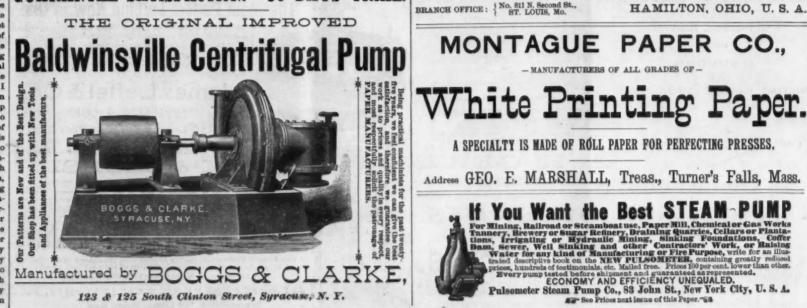
NOTICE.—I have been informed that irresponsible boiler-makers have offered to build Rotary Boilers with whole wrought-iron heads and a hollow journal, which would be an infringement of my patent. Such boilers will be made by the undersigned at low prices—having special tools for the work—and no extra charge made for the patent right, which would have to be paid by the user if made by an unauthorized person.



THE HOOVEN, OWENS & RENTSCHLER COMPANY.

Builders of all Styles of Engines, Boilers, Saw Mills, &c.,

489



100



#### THE PAPER TRADE JOURNAL.

#### DIRECTORY.

### Cards under this heading will be charged for at rate of \$15 per annum for each card.

NEW YORK HOUSES.

#### Jute Butt Brokers.

CABOT, BOWLES & CO.,	81 Water st.
CROCKER, HENRY H., & CO.,	IM Pearl st., N. Y.
DALAND, WILLIAM S.,	124 Water st., N. Y.
HANSON, CHARLES A.,	103 Water st.
TUCKERMAN, G.,	72 Beaver st., N. Y.
Note Brok	er.

COLBY, C. A., Buys and Sells Notes of Paper Manu-facturers and Dealers, 22 Nassau st., N. Y. GOLDMAN, M., & SACHS Negotiate the Notes of Mfrs. and Dealers of Paper. 4 and 6 Pine St., Room 9. Paper and Paper Makers' Supplies. BELDEN, M. B., Straw and Manilla Papers, Paper Bags and Flour Sacks, 45 Dey st., N. Y. BUTLER & JOHNSON, Dealers in Paper, 44 Boek-man st., N. Y. CROSS & CARRARO. 27 Centre st., N. Y. 48 Beekman st. HEWITT, C. B., & BRO., HOAG, JOHN T., Tribune Building, Room 57, N. Y. HUBBS, CHARLES, 36 Beekman st., N. Y. HUBBER, DIAMONT AND A CO., 58 December 104 AND A CO., 58 December 104 AND A CO., 47 John and 5 Dutch sta. O'CONNOR, KIMBALL & CO., Manilla, Wrapping and Building Papers, 78 Beekman St., N. Y. PERKINS & GOODWIN, 54 Duane st. TOMPKINS, D. D., Straw, Cigarette and Bogus Manilla Paper, 194 Fulton St., N.Y.

TOMPELSS, WEAVER & CO., Straw and Manilla Papers, 170 Fulton st., N. Y. WATSON, GEORGE, JR., 63 Beekman st. Paper Makers. ORRS & CO., Printing and Hanging Mills at Troy. Roll Papers a Specialty. Office, 39 Park Row, N.Y. Paper Makers' Chemicals and Colors.

HELLER & MERZ, Ultramarine, 55 Maiden lane, N.Y. 45 Cedar st. RIKER, J. L. & D. S., 182 Nassau st., N. Y. SERGEANT BROS., Paper Stock Brokers. A L., 182 Nassau st., N.Y. BEEBE, IRA L.. Printed Wrapping Paper. NUGENT, J. S. & CO. Also Paper Bags and Boxes. 538 and 540 Pearl st., N. Y. Rags and Paper Stock. 258 and 255 Front st. ATTERBURY BROS., BROWN, EDWARD J., 428 and 450 East 28d. street. BUCHANAN, M. T., 263 Front st COHN, LAZARUS & CO., 253 Pearl st., N. Y. 700 Second avenue, N. Y. CORRIGAN, PATRICK, DALY, D., Rags, Paper Stock, Old Metals. 306 Water st., N. Y. DARMSTADT & SCOTT, 49 & 51 Ann st., N. Y. 59 Gold st., N. Y. EVANS, T. J., FITZGERALD, JAMES M., & CO., Paper and Paper Stock, 133 & 137 South Fifth ave., N. Y. FLYNN BROS., 61 Congress St., S. Brooklyn, N. Y. GILDEA, PATRICK, 445 and 447 West 13th st. HENNESEY, JAS, 59 Duane st., N.Y. Warehouses, 110, 112 & 114 Nary st., Brooklyn, and cor. Union Ave. and N. 8th st., Brooklyn, E. D. KEENAN'S, OWEN, SON, Established 1840. 448 Pearl st., N. Y. LIBMANN, JOSEPH, & CO., New Rags a Specialty. 178 Centre st., N.Y. LOEWENTHAL & MORGANSTERN, 21 Beekman st., N. Y. LYON, J. W., & CO., 44 and 46 Duane st., N. Y. LYON, JOHN H., & CO., 10 & 12 Reade st., N. Y. MAHARIN, M. A., Metals, 513 Washington st., ModHNNIS, HUGH, Dealer in Cotton & Woolen Rags, Paper Stock & Old Metals, 59 & 61 Spring st., N. Y. MOQUADE, ARTHUR J., 535 & 537 E. 18th st., N. Y. 195 William st. N. Y. METZ, PHILIP, MORE, Geo.W., formerly with Geo.Harley, 63 Goerek. OVERTON, R. H., 72 Duane st., N. Y. RALL, WM. F., Cotton and Wool Waste, 35 Stone st., Olty. SAVAGE, JAMES, JR., 580 to 536 W. 38th st., N. Y. SERGEANT BROS., 182 Nassau st., N. Y. SMITH, JAMES F., Jute Waste a Specialty, 36 Peck slip, N. Y. 56 Peck alp, N. Y. WARD, OWEN, 448 & 450 West 39th st. WYNNE, T. F., 18 and 15 Columbia st., Brooklyn, N. Y. YOUNG, P., Washington Ave., nr. Wallabout Bridge, Brooklyn, E. D. Straw Boards.

BUTTERFIELD, H. A., 548 Pearl st., near Broadway. FITZGIBBONS, MESSER & CO., Mfra. Straw Boards, Manilis Fulp Lined Bds., Newski Lining Paper, Liners of Straw Bds. by Fatent Mach'y, 68, 65 & 67 Orosby st. HAYES, JAMES E., & CO., 75 Duane st. Wire Cloth. LANG, MARIUS, Importer of Wire Cloth, 94 Bloecker st., N. Y. OUT OF TOWN HOUSES.

Architects.

	Paper Ma	nufactu	rers	
JERSEY CIT	TY PAPER C Wrapping, 31	O., White a 1 Wayne st	nd Col	y City, N.J
LAKE GEO News and Pulp.	RGE PULP Book Pape	r; also, W	et and	Dry Wood
SCOTT PAL	PER CO. LIN	AITED, 27	N. 6th	st., Phila

delphia. Flour Sack, Building & other Manilla Papers Paper Making Machinery.

EMORY, P. P., & CO., Mfg. of Water Filter Lock Valve, Springfield, Mass. HOLYOKE STEAM BOILER WORKS, Manufacturer of Steam Boilers (B. F. MULLIN), Holyoke, Mass. SMITH, WINCHESTER & CO., South Windham, Ct. SPENCER, JOHN S., Chilled Rolls, Super and Ma-chine Calenders a specialty. Housatonic, Mass. THE SIBLEY MACHINE CO., Norwich, Conn.

Rags, Paper and Paper Stock. BRIGHT, ROBT. C., Woolen and Cotton Rags, Metals and Paper Stock, 55 Long Wharf, New Haven, Conn. BULKLEY & CO. (Late with J. G. Ditman & Co.), 182 North Front Street, Philadelphia.

BUTLER, THOMAS, Cotton and Woolen Rags, Iron and Metals. 249 Causeway st., Boston, Mass.

ELLIOT, A. G., & CO., Paper and Paper Stock, 797 Chestnut and 726 Jayne sts., Philadelphia. FOLLANSBEE, TYLER & CO., 114 and 115 Quincy st., Chicago, Ill. Refer to J. W. Butler Paper Co. GARVAN, P., Paper & Paper Stock, Hartford, Conn. GILBERT, WM., & CO., Paper and Woolen Mfrs.' Ma-terials. 11 and 18 Market st., Chicago, Ill. GRAHAM PAPER CO., Paper Warehouse and Stock Dealers. 317 and 319 No. Main st., St. Louis, Mo. HARRIS, M., & BROS., 408 & 405 Fifth ave., Chicago, Ill. Branch Houses: Dubuque, Ia.; Burlington, Ia. HUBLEY & CO., Rags and Paper Stock, Worcester, Mass.

LANEY, JAMES, & CO., Dealer in Paper and Paper Stock, Cotton and Woolen Rags, Rochester, N. Y. LOEWENTHAL, B., BROS. & CO., 10, 12 and 14 N. Canal St., Chicago, Illa.

MASSASOFT MFG. CO., Gunny and Shivey Bag-ging and Cotton Mill Sweepings. Fall River, Mass. MAYO, A. N., & CO., Successors to Dickinson & Mayo, Rags and Paper Stock. Springfield, Mass. McARDLE & HART, 194 to 128 Jane and 141 to 143 King sts., New York, and Newburg, N. Y. McKEON, P. & J., Dealers in Woolen & Cotton Raga, &c. 258 Fourth st., Brooklyn, E. D. MILLET, GEO. W., Straw and Manilla Papers, Paper Bags and Flour Sacks, 507 N. 2d st., Phila., Pa. PEARL, HENRY W., Paper and Paper Stock, Springfield, Mass. RICHMOND & CO., F. H., Paper and Paper Stock Warehouse, Cotton Waste Dealers, Providence, R. I. RING, M. A., & SONS, 363 Atlantic ave. and 20 Purchase st., Boston, and 139 No. Front st., Phila. SHAY, WM., Dealer in Bagging and New Paper Stock only. New Cuttings a specialty. New Hamburg, N.Y. SIMMONS, JOHN, Wholesale Dealer in Paper and Eags, 90 and 22 Decatur st., Philadelphia.

SNIDER'S, LOUIS, SONS, Manufacturers and Whole-sale Paper Dealers. 121 Walnut st., Cincinnati, O. WHEELER, THOS. H., Cotton and Woolen Rags, New Haven, Conn Screen Plate Manufacturers and Repairers.

ANNANDALE SCREEN PLATE CO , Manufacturers and Repairers of Screen Plates, Paterson, N. J. ASHMUN SCREEN PLATE CO., Old Plates renewed; charges moderate. P. O. Box 210, Paterson, N. J.

JUDSON, HOWARD, 127 and 129 N. J. R. R. ave., Newark, N. J. New Patent Screen Plates. Solicitors of U. S. and Foreign Patents.

CROSBY & GREGORY, 54 School st., Boston, Mass Straw Boards.

PINKHAM, T., Agent for Androscoggin Pulp Co.'s White Box Boards and Ashland Leather Board, 34 Friend and 52 Eim streets, Boston, Mass. GASKILL, BAUER & CONDERMAN, Straw, Binders' and White Wood Boards, have for all Straw-Board Cuttings in large quantifies. No. 127 N. Fourth st., Philadelphia.

Straw Boards and Straw Wrapping.

TUCKER'S, E., SONS, Straw Boards, Paper, Twines, Paper-Box Mach'y, 100 Trumbull st., Hartford, Ct.

### FOREIGN HOUSES.

Rags and Paper Stock. WALKER, J. R., Dealer in Paper Stock, Woolen Ragn and Scrap Metals, 30 and 34 Foundling st., Montreal.

IMPORTATIONS OF PAPER STOCK.

PAPER, BOOKS, CHEMICALS, &c. IMPORTS of Paper and Paper Materials, Rooks, &c., at the Port of New York, for the week ended October 5, 1863. Quantity given in

packages when not otherwise specified.

Aniline Colors..... \$50 \$84,495 Alum ..... Aluminous Cake.....

TOTAL IMPORTS.	
General Merchandise, for the week ended October 5, 1888	\$6,796,902
For the year ended May 23, 1878	15,074,895
For the year ended May 22, 1874 For the year ended May 21, 1875	12,150,855 13,292,891
For the year ended May 96, 1876 For the year ended May 95, 1877	11,298,408 9,627,694
For the year ended May 24, 1878	10,246,413
For the year ended May 23, 1879 For the year ended May 21, 1890	9,561,091 13,549,975
For the year ended May 27, 1881	14,379,508
For the year ended May 26, 1882 For the year ended May 25, 1883	18,295,812 14,958,155
For quarter ended Aug. 24, 1883 For the week ended Aug. 31, 1833	8,580,248
For the week ended Sept. 7, 1888	196,800
For the week ended Sept. 14, 1883 For the week ended Nept. 21, 1883	298,030 387,972
For the week maded Sept. 28, 1883	300,012

quarter ended Aug. 24, 1883 the week ended Aug. 31, 1833 the week ended Sept. 7, 1888. the week ended Sept. 71, 1888. the week ended Nept. 21, 1883. the week anded Sept. 23, 1883. IMPORTS of Rags and other Paper Stock at the Port of New York, since Jan. 11, 1883, from the following Ports, showing quantities from anah Port -

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Ca Co

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Rags. Bales. 2,508	Old 1 Paper. Bales.	Manilla Stock, Bales,
terdam 1,509	68	\$15
erp 5,876	00	1,481
wall 8,125	-	1,901
aux		
		400
en 1,163 erhaven	23	189
		21
	291	1,989
618		0.000
tta		9,020
E	_	563
ia		
nhagen 8,960		4.98
Ig 816		
687	2,290	6,216
1,085	-	
ow 2,330	. 6,416	913
ourg 2,334	845	388
1,809	68	464
8,799	-	-
	1,199	4,487
sberg 1,102	-	-
073 8,344	-	
ick 141	-	
001 7,896	2,164	12,489
n14.718	26,228	10,957
688	_	
lles 495		
a 900		
1,985		_
stle 591	12	984
mbuco		-04
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outh	-	145
Cabello		140
aneiro		1.
rdam		_
Cruz.		
e 187	_	17
la 57		100
8	.98	
		894
al 800	-	
829		
Docks		100
Hartlepool 96	304	-
ama 2,303		-

Ended Oct. 9, 1883, with Aggregates and Values.

BOOKS, cases, to Hamburg, 1; to Liverpool, 84; to Hull, 25; to London, 8; to British Guiana, 1; to Giasgow, 7; to Nova Scotia, 2; to China, 1; to New Zen-land, 14; to New Foundland, 2; to China, 1; to Brazil, 22; to Venezuela, 1; to United States of Colombia, 7; to Central America, 2; to Japan, 5; to Mexico, 6; to Argentine Republic, 4: to Liberia, 6.

PAPER, to Amsterdam, 10 particle, 4: to Habris, 6: e.s.; to Copenhagen, 5 cs.; to Liverpool, 15 cs.; to Hull, 17 pigs.; to London, 18 cs.; to British Guiana, 41 cs.; to British West Indies, 5,960 rms., 91 pigs.; to Cuba, 13,550 rms., 6 cs., 19 pigs.; to Uruguay, 5; to Porto Rico, 1,000 pigs.; to Brazil, 50 rms., 10 pigs., 1 cs.; to United States of Colombia, 3 cs., 57 pigs.; to Warico, 7 pigs.; to Amstering Resulting Topics.; to Mexico, 7 pkgs., 1 cs.; to Argentine Republic, 7 cs. to Chili, 30 cs.

STATIONERY, cases, to Bromen, 1; to Liverpool, 38; to London, 5; to Glasgow, 1; to British West In-dies, 1; to New Zealand, 30; to Havre, 1; to Cuba, 4; to Brazil, 9; to United States of Colombia, 80; to Japan, 1; to China, 7; to Chill, 98.

AGGREGATES AND VALUES.				
Paper, reams	18,280	\$3,332		
Paper, pkgs	1,941	4,657		
Paper, cases	199	5,590		
Books, cases	148	14,157		
Rosin, bbls	5,800	15,811		
Stationery, cases	149	6,483		
Totals.	25,909	\$49,580		

General Marchandise for the week ended

W. H. Parsons & Co., Tower Hill, London, 70 bs. W. Irving Clark, by same, 85 bs. old papers.

R. H. Overton, by same, 850 bs. old papers. Train, Smith & Co., Winston, Newcastle, 111 bs. raga, 61 bs. manillas. Perkins, Goodwin & Co., Elgin, Plymouth, 145 hs. manillas.

Lewy Brothers, Romano, Hull, 302 bs. rags. Lowy Brothers, Sneklokke, Stettin, 601 bs. rags. Paper. A. Ireland, State of Nebraska, Glasgow, 10 cs.

J. Walker, Wisconsin, Liverpool, 3 cs. Roth & Lips, Belgenland, Antwerp, 15 cs. colored. Henry Bainbridge & Co., St. Ronans, London, 3 cs.

C. H. George, by same, 1 cs. hangings. Vernon Brothers, Suevis, Hamburg, 20 bs. Hagemeyer & Brum, by same, 30 bs. G. Gennert, by same, 5 cs.

L. De Jonge & Co., by same, 2 cs.

P. Morganstine, by same, 1 cs. Kaufmann Brothers & Bundy, W. A. Scholten,

dam, 2 cs. cigarette Lydecker, Arizona, Liverpool, 5 bs. wrap-

enert, Silesia, Hamburg, 5 cs. emeyer & Brum, by same, 40 cs. print, empton, Tower Hill, London, 7 bs.

aing Sheldon & Co., Hammonia, Hamburg

chants Dispatch, by same, 1 cs.

#### BOSTON IMPORTS.

OCTOBER 4 TO OCTOBER 10, 1983, INCLUSIVE.

win Brothers & Co., Marathon, Liverpool, 1

enhoff, by same, 3 cs. Brown & Co., by same, 4 cs. Snow, by same, 1 cs. Barlow, by same, 2 cs.

ies, Upham & Co., by same, 1 cs

s & Lauriat, by same, 1 cs. r, Cephalonia, Liverpool, 1 cs. r, Durham City, London, 7 cs.

er, Nestorian, Glasgow, 1 cs. er, Dorean, Leghorn, 1 cs. er, Romano, Hull, 8 cs.

Paper, &c. ang & Co., Durham City, London, 10 cs. print-

ong & Co., by same, 13 cs. printing paper.

per, Lewis & Co., by same, 2 cs. paper. nison Manufacturing Company, Marathon, Liv , 12 cs. tissue. es & Co., Cephalonia, Liverpool, 1 cs. adver

ards.

e & Downer, by same, 9 cs. prints and books. er, Romano, Hull, 85 cs. manufactured paper, er, by same, 4 cs. manufactured paper.

Paper Stock. Jones & Co., Magellan Cloud, Lockport, N.S.

onnor, Carroll, Halifax, 34 bs. manilla rope.

cins & Montague, by same, 11 bdls. paper stock. Hall & Co., Neil, Windsor, N. S., 46 bs. paper

Lodge & Co., Durham City, London, 50 bs stock.

, Smith & Co., by same, 152 bs. rags. Warren & Co., by same, 155 bs. rags. ce Dutton, by same, 555 colis manilla rope. Norsee Diston, by same, by some one maining rope.
W. H. Parsenaé Co., by same, 100 bs. paper stock.
Fairchild Paper Company, by same, 185 bs. rags.
F. Sprague & Co., by same, 250 hs. rags.
Order, Scandinavian, Glasgow, 120 hs. paper stock.
H. M. Knowles & Co., by same, 51 bs. paper stock.
Horace Dutton, by same, 130 bs. paper stock.
Horace Dutton, by same, 130 bs. paper stock.

Train, Smith & Co., by same, 586 bs. paper stock. H. H. Knowles & Co., Romano, Hull, 194 bs. rags. Order, by same, 49 bs. rags.

Crocker, Burbank & Co., by same, 41 bs. pape

Train, Smith & Co., Amico, Smyrna, 856 bs. rags, F. O. Davne, David Bugbee, Cadiz, Spain, 74 bs.

C. A. Cheney, Iowa, Liverpool, 22 bs. rags. Order, Marathon, Liverpool, 1 bs. paper stock. Order, Illyrian, Liverpool, 183 bs. paper stock. Train, Smith & Co., by same, 309 bs. rags, Order, by same, 148 coils rope. Haskins & Montague, City of Columbus, Savannah

coils rope. Caustic Soda Linder & Meyer, Illyrian, Liverpool, 500 drums.

Sal Soda. Linder & Meyer, Illyrian, Liverpool, 199.kgs.

Sodu Ash. Linder & Meyer, Illyrian, Liverpool, 464 cks. Morey & Co., by same, 59 cks.

J. L. & D. S. Riker, Marathon, Liverpool, 20 cka. alkali.



BECAUSE the PALACE HOTEL COACHER run in connection with its trains, furnish Meals as good as can be had at any first-class hotel, and allow passengers to eat with a much comfort as at heir own homes.

BECAUSE not one passenger has been killed or even injured on its killed or even injured on its information of the line five years ago. Nor has an accident of any kind occurred. BECAUSE the great variety of scenery on this line renders the journey pleasant and profitable.

BECAUSE provision has been made for running the trains from Mansfield, "Special" to destination, whenever they arrive after departure of train forming regular con-nection. This insures a continuous passage between New York and Chicago.

A. E. CLARE, Gen'l Passenger Agent,

Cleveland, Ohio.

J. T. HOSFORD, Gen'l Western Agt., Chicago, Ill.

BALDWINSVILLE CENTRIFUGAL PUMP. The Best Pump in the Market

for Paper and Pulp Mills, Heacheries and Dye Works, Tanneries, Breweries, Distilleries, Starch. Factories, Con-tractors, for Draining Sewers and Excavations, Emptying Dry Dooks, Wrecking, Irrigating, etc., etc.

James Lee & Co., Scandinavian, Glasgow, 14 cks.

Bleaching Powder

Morey & Co., by same, 583 cks. James Lee & Co., Scandinavian, Glasgow, 20 cks.

Fenetian Red. C. L. Andrews, Scandinavian, Glasgow, 130 bbls.

Linder & Meyer, Illyrian, Liverpool, 375 cks.

Ultramarine. Order, Scandinavian, Glasgow, 10 cs.

TOWER, D. H. & A. B.—Paper and Puip Mill Designs a specialty. Surveys and Plans made for Mill Sites, Dams and Canais. Holyoke, Mass.	Bleaching Powders		13,789	October 9, 1863	Will not clog, and has no close fitting parts to wear. Twenty-one years in use.
Binders' Boards.	Soda, Bicarb.			Paper, &c., for the year ended May 28, 1876, 1.654,884	S. L. HOLT & OO., 67 Sudbury St., Boston, Mass.
BARBER, J. & J. S., Paper Stock and Binders' Boards, 631 and 633 Commerce st., Philadelphia, Pa.	Boda, Caustio		1,936	Paper, &c., for the year ended May 29, 1877. 1,790,669 Paper, &c., for the year ended May 28, 1878. 1,576,562 Paper, &c., for the year ended May 27, 1879. 1,889,78	AGENTS FOR NEW ENGLAND.
SHEEDER, J. FRED., Mfr. of Album, Binders' Trunk and Button Boards, Kimberton, Pa.	Soda, Sal	-	-	Paper, &c., for the year ended May 25, 1880. 2,016,545 Paper, &c., for the year ended May 25, 1881. 1,980,058 Paper, &c., for the year ended May 26, 1885. 1,452,312	ULTRAMARINE
Book Binders' and Paper Box Makers' Materials.	Ultramarine		2,013	Paper, &c., for the year ended May 30 1983. 2,585,122 Paper, &c., for quarter ended Aug. 29, 1883. 634,355	
SNIDER & HOOLE, 101 and 108 Walnut st., Cincin- nati, O., and Chicago, 11.	Rocks		87,368 2,650	Paper, &c., for the week ended Sep. 4, 1893.         61,831           Paper, &c., for the week ended Sep. 11, 1893.         41,765           Paper, &c., for the week ended Sep. 18, 1893.         55,219           Paper, &c., for the week ended Sep. 18, 1893.         55,219           Paper, &c., for the week ended Sep. 18, 1893.         55,219           Paper, &c., for the week ended Sep. 18, 1893.         47,671           Paper, &c., for the week ended Sep. 18, 1893.         40,564	FOR PAPER MANUFACTURERS, -Manufactured by-
Grinding Stones for Wood Pulp.	Engravings	84	7,884	Paper, &c., for the week ended Sep. 26, 1983. 74,671 Paper, &c., for the week anded Oct. 9, 1983. 60,964	
OHIO GRINDSTONE CO., 127 Superior st., Cleveland, Ohio.	Ink	81	1,705	NEW YORK IMPORTS.	HOFFMANN & KIESSIG,
UNION STONE CO., Grinders' and Polishers' Sup- plies, 28 & 40 Hawley st., Boston, Mass.	Lead Pencils.	1 1	3		Proprietors of Germania Ultramarine Works,
Cuts for Printers of Wrapping Paper, Flour Sacks, Etc.	Paper		10,602 4,894	FROM OCTOBER 3 TO OCTOBER 10, 1983. Paper Stock. J. W. Mason & Co., Jersey City, Bristol, 545 bs.	No. 79 MAIDEN LANE, NEW YORK.
ZEESE, A., & Co., 155 & 157 Dearborn st., Chicago, III.	Stationery	11	4,030	manillas.	
Dandy Roll Manufacturers.	Sinte Pencils	77	500	Belauzaran & Florez, F. Cilento, Cadiz, 70 bs. rags.	PROVIDENCE STEAM ENGINE COMPANY,
BUCHANAN, BOLT & CO., Patent Seamless Wove and Laid Dandy Rolls. Holyoke, Mass.	Clay	-	-	Buikley, Dunton & Co., Thingvalla, Copenhagen, 108 bs. old papers.	
CHENEY BIGELOW WIRE WORKS, Springfield, Mass. Pat. Seamless Wove and Laid Dandy Rolls.	Jute Butts		16,550	Perkins, Goodwin & Co., by same, 900 bs. rags. Horwits & Neustadt, by same, 33 bs. rags.	PROVIDENCE, R. I.,
Engravers on Wood.	Jute Rejects and Cuttings Paper Hangings	1 1	1,129	Lowy Brothers, by same, 119 ba. rags. Funch, Edye & Co., by same, 31 bs. rags.	SOLE BUILDERS OF THE
RUSSELL, A. C., 7 Pemberton Square, Boston, Mass.				Feit & Sengstak, Orpheus, Hamburg, 138 hs. rags.	Greene Automatic Cut-off Engine.
Paper Cutters.	Paper Stock		106,876	S. Webber Parker & Co., Furnessia, Liverpool, 180	Freene Automatic Litt-off Footne
HOWARD IRON WORKS, Buffalo, N. Y.	Тегта Аlba	-	-	bs. rags, 155 bs. manillas. Eugene Sullivan, City of Richmond, Liverpool, 113	al volto nutoniuno out ott Ligilio.
Paper Makers' Chemicals and Colors.	Waste	15	1,849	Lagene Sunivan, City of Richmond, Liverpool, 118	ALSO, BOILERS, TANKS AND SHEET IRON WORK.
BLANCHARD, J. HENRY, Chemicals, Claya, Rosins, 101 Milk st., Boston, Mass.	Totals	16,525	pace, 961	John L. Taylor, Spain, Liverpool, 46 bs. manillas. Perkins, Goodwin & Co., by same, 219 bs. manillas.	H. W. GARDNER. President. T. W. PHILLIPS, Secretary.

#### PAPER TRADE JOURNAL. THE

# The Haper Trade Journal. DEVOTED EXCLUSIVELY TO THE INTERESTS O The American Paper Trade. Weekly, \$4.00 per Annum. Single Copies, · · · 10 Cents. NEW YORK : SATURDAY, OCT. 13, 1883.

492

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. 14 reichs many, per annu eign subscribers may address our New York

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

unications must be addressed to All co HOWARD LOCKWOOD,

Publisher and Proprietor No. 74 Duane Street, N. Y.

£1

#### BRANCH OFFICES.

Western Office : 8 Lakeside Building, CHICAGO. Philadelphia Office : J. VIENNOT, General Man-

ager, 150 South 4th St. Eastern Office : Joseph Hammirt, General Man-

ager, 49 FEDERAL ST., BOSTON, MASSA. Southern Office: F. G. HANCOCE, General Man-ager, CHINER BROAD AND ALABAMA STS., ATLANTA, GA.

THE United States consul at Monterey, Mexico, is directing attention to the value of that city as a location for industrial and commercial enterprises, says that American capital is being contributed toward the development of such interests. He gives an illustration of what has been done in one instance, and says that it " will also answer for a paper mill, fibre factory," &c. The raw material is mostly on the spot and the Mexican tariff affords ample protection to the manufacturer. Here is a chance for somebody.

A CORRESPONDENT presents some reflections upon the export trade in paper which we commend to the attention of our readers. His suggestion that the subject should be considered and discussed publicly through THE JOURNAL will, we hope, result in calling forth an expression of views from the trade. There are many who have devoted thought to this matter, but have either been modest in presenting their ideas or neglectful of committing them to paper. We hope to hear more from the trade upon this point.

THE most interesting contribution to the history of the suction-box that has yet appeared in the columns of THE JOURNAL is presented in this issue. Our correspondent, "Harper," has evidently gone con amore into the investigation of his subject, developing a research which will be likely to put his opponents to their wits to combat. The question seems to be answered, despite the later claims to the distinction of inventing the suction-box. Have our other correspondents anything to say, or do they yield the ground which "Harper" has traversed with so much patience and persistency?

THE work of perfecting the organization of the American Paper Manufacturers' Association is going on quietly but effectively. Secretary Crocker, who has displayed the active, energetic spirit expected of him, is doing good service in exciting and retaining the interest of the trade in the Association. The mill-owners continue to forward their assessments, and last week the largest yet paid was handed over to Mr. Crocker. The amount was \$86.20. Paper makers who have delayed sending in assessments of very much smaller amounts ought to be encouraged by this example, and comply with the request that ten cents per inch width of machine should be paid in for the purpose of meeting the necessary expenditures for conducting work which is to benefit the whole trade. Those who have omitted to forward their assessment had better do it at once, lest this suggestion should escape their mind and they lapse into forgetfulness.

these we gather that this country is supplying Portugal with about six million dollars' worth of goods per annum out of a total import of nearly \$40,000,000 worth, the paper import of Portugal from the United States figuring to the insignificant sum of \$850. Great Britain supplies the greater part of Portugal's import requirements. Small though the Portuguese market may seem to be, it is of sufficient importance to command our attention. Trade is not built up by scrambling for the big loaves, but the small and unconsidered crumbs of commerce carefully gathered and absorbed, are the more valuable. It has been one of the features of British success, that no chance for establishing and developing trade connections, however small or seemingly insignificant, has been left out of calculation or untried. In seeking to extend our own markets, we should bear this in mind and remember that a garden-patch will sometimes prove as profitable as a plantation.

CAUTION is the prevailing feeling in all trading circles. One of the latest phases of the business situation is the refusal of a number of the banks to discount notes offered to them by brokers in such securities. The fatal facility with which merchants have been able to get accommodation has led many to put their promises to pay into the hands of bill brokers for a "shave." even when they could not really say that they needed the money, and the proceeds of their notes have too often gone into enterprises from which neither profit nor credit has been derived. But now the banks are beginning to realize that not only are their profits from such sources uncertain, but that their securities are precarious, and they are compelled as a measure of safety to scrutinize very closely the backing of parties by whom accommodation is sought. This is not an unexpected change of position, for it has been impending. The business community must adopt itself to the changed circumstances ; a very conservative policy must be undertaken and followed and we must all get rid of the notion that fortunes are to be made in a hurry. A return to safe and old principles of business is a necessity, and the various evils which THE JOURNAL has pointed out as sapping the roots of trade and destroying its vigor must be met and overcome. It is re ported that the bill brokers are very nervous over the situation. They ought to be more than that. The nerve should be taken all out of them, and they put to healthy work for a healthy living. Mer-

chants and manufacturers alike must turn in and help to restore life to trade. They can only do so by reforming its abuses.

#### Water-Marks. BY DANDY.

It is curious how things run in streaks. When we have cyclones, there is not one but several ; railway accidents run in groups ; marine dism-ters occur in succession. After a while, everything quiets down, and we are left to await th

I forgot to cite epidemics of disease; at one time nall-pox, then malarial fevers, diphtheria, and all of the other ills to which suffering humanity is subject, and which seemingly in an experimental way come along to test folks and see where they can be caught the easiest.

thing that will save expense and facilitate his work

Now, where will it all end ? Possibly no pat ent will be found good, even if the different devices are effective. This remains to be seen. So many "Richmonds" are "in the field " that they may perchance kill each other off, but perhaps they had better pause. I know that they will all want to know why I say this, and for this reason I submit to the editor of THE JOUR-NAL the drawings and specifications of a paten issued out of the Patent Office between 1860 and 1870 which has a bearing on this subject.

The claim of the patent which I refer to is for "extracting the water or moisture, to a greater or less extent, from the pulp on the wire cloth or felt apron, on its way to the pressing rollers, by the removal of atmospheric pressure, as described, or in any equivalent manner." Another claim is for an arrange ment of adjustable slides on the boxes, where by the aperture in the top of the box is made to correspond with the width of the paper.

Now, it is necessary to see what is the method of removing "atmospheric pressure as described or its equivalent. Referring to the specification, I find that the invention consist forming by steam, water or other fluid s vacuum, &c. The apparatus for effecting this removal is a jet of steam, which being introduced to the exhaust pipe (no need of going into particulars), drives everything before it and creates sufficient vacuum to excite suction It seems to me that this antedates James Har per's method of making a vacuum

I leave the issue now to the care and consideration of all interested, and should THE JOURNAL see fit to present the drawings and description which I have put in its posse it is at perfect liberty to do so.

Coming back to the revolving suction-box. ] observe that a writer in a late issue of one of your British contemporaries takes up "C.'s statement that the first record of a "suction couch-roll" was in 1867. He says, "I find that a patent was taken out on November 10, 1849, nearly twenty years prior to 'C.'s' date, by Charles Ed. An os and Moses Clark, in whi among other alleged improvements occurs the wing :- 'Employing in place of the upper follo couch-roll, a hollow roll perforated on its sur face, and having a suction-box within the inside acted upon by an air-pump, so as to draw off the water from the upper side of the paper, by which the color of the paper where Su alt's tramarine, or other colors are used, is kept of an equal tint throughout.' This, I think, dispose of the erroneous statement referred to."

One of your correspondents says that the ma chine which Dickinson invented is now called the "Yankee" machine in Great Britain. No. you don't, young man ! You can't play that It isn't Dickinson's machine on the public. Dickinson may have devised the cylinder, but he didn't put it where it would do the good. Ames submerged it ; made it a "Yankee" nachine ; sent it back to England, where it was adopted. That's the how !

I think that the young Scotchman who went over to look at that peculiar machine at South Hadley is all out. He does not know the Har per machine, which is probably what he has seen in the United Kingdom. The Harper ma chine was devised in this country, and when ent over to England was called the "Yankee Machine.' Isn't this about the size of it. "Pen ?" You have seen the Pearl City may chine and can tell whether if your protegé had seen the "Harper" in Scotland he might not be likely to assume a similarity between it and the other.

A few personal incidents may not be out of order. I am told that the testimonial to Col. D. P. Crocker has taken the form of an imm colonel's shoulder strap with an eagle-which is the insignia of the rank-in silver. Now that the Colonel has changed his affection for Governor Butler and returned to his first love in politics, this emblem will supplant the huge wooden spoon that used to hang above his de and may be understood to represent the affe tion of his friends.

A prominent firm of paper-stock dealers in this city is reported to have recently sent out to each Perhaps some one will wonder why I have Had not economy been the thief of time, I have no doubt that the box would have contained one hundred. The question whether the customers were or were not smokers did not seem to enter into the calculation.

### Communications.

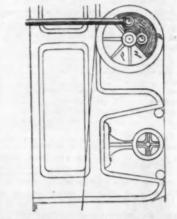
[Communications are solicited from everyone who has anything of value or interest to impart. Items of news, trade gossip, and personal information, will ondents are requi be gladly received. Corre ly on one side of the paper. rite o ility for the opinions of correspond dents att this paper. Communications must be sent to reach this office by Wednesday night or Thursday mornin of each week, to insure ins

That "Corded" Roll. To the Editor of The Journal :

I am sorry to inform your correspondent ' Pen," that he is somewhat mistaken in his idea about the corded press roll. The driers formed a part of the machine as far back as I can re member, and when the wet reels, which were placed between the first and second press, were taken out, it, of course, left an opening or gap in the machine which was partly filled with a board containing several knives, over which the paper was drawn. There can be no doubt that this corded press roll is the dandy roll mentioned in the Early patent. CROSSMYLOOF.

#### The Revolving Suction-Box. To the Editor of the Journal :

I inclose a drawing of my revolving suction box. The cylinder a is 30 inches in diameter and takes the place of the under coucher, driving the wire, register-valve B, suction-pipe c c, and compartment d, running up to the face of



the cylinder. The register-valve can be adjusted to any part of the cylinder. A 30-inch cylinder gives 30 inches space for suction; a 4foot cylinder would give all that would be required to dry the paper for the steam-dryer. I hope this will suit all of the other "suckers" and B. B.

#### Some Dispute. To the Editor of The Journal :

If Geo. Hill invented the suction-box in 1884, it seems strange that he should be tending ma-chine in the Moffat paper mill at Airdrie for John Craig in the year 1847, and that the ma had no suction-box. Notwithstanding that Mr. Hill informs us that before he made the discov ery, machines could only be run at from ten to twenty-five feet per minute, if your correspondent is a constant reader of THE JOURNAL, he might have seen in a late number that machine were running at sixty feet per minute without the suction-box in the year 1842, and the Green field Paper Mill Company, Hollywell, North Wales, was running its machine on book paper for the London market without a suction-box in the year 1851.

Mr. Hill says that Barrhead paper mill was running in 1850. John Watson, who from last accounts, was keeping a rag store in Burlington, N. J., could tell a different story. Again, Hill says that Milholm machine did not start un til 1846. The machine was running many years prior to 1846, with George Smith as machine The last time I saw Mr. Smith was in 1851, and he was then tending machine in the Ivanhoe paper mill at Paterson, N.J. I know that Mr. Hill put up some good substantiantial cylin-der machines in Scotland, for I saw one of them myself at Airdrie. You bet ! GOOSEBEBBY.

# The Export Trade.

To the Editor of The Journal : I have noticed with interest your frequent ediport trade ; and have often thought that a few

torials urging the importance of the paper ex-

realized are not so very remunerative, a posttive benefit accrues in the better tone of the ne market.

Although several manufacturers are now exporting more or less of their product, I think that the development of the export trade will be rather slow if left to such individual effort. To do the business properly it is, of course, necessary to be prepared to offer or accept orders for many different kinds of paper, all of which kinds cannot well he made by one manufacturer; and therefore the business must be done, I think, through a commission house, to whom the manufacturers could make such concessions in price and terms as would be requisite to make the traffic profitable to all concerned, If these concessions brought the prices below those current in the home market, proper safeguards could be taken to prevent the paper be ing put upon the market surreptitiously. If cessary, and with proper support, the mission house could perhaps be an export house olely, doing no domestic business. The method of selling the goods abroad would be for the stport house to decide, whether by resident agent or otherwise.

My communication is already too lengthy, yet considerable more could be said without ex-hausting the subject. I have been patiently waiting for the export committee's report, and not seeing it have been tempted to present one view of the case, in the hope that (if published in your paper) it might draw out the views of others, and thus result in a better knowledge of what is wanted. SHAWMUT.

The History of the Suction-Box Reviewed. To the Editor of The Journal :

I have read all that has been said in THE JOURNAL about the suction-box, and I have been very much amused at the assumption of knowledge not backed up by its actual possession. In a former communication I brought forward John Wilks' patent of 1830, which was from four to six years earlier than any that had been mentioned at that time. Since then George and John Dickinson's patents have been brought forth, antedating that of Wilks; but nothing very definite has been said as to their merits or claims, so I propose in this communication to give your readers a synopsis of the specificans and claims of a few who have their name recorded as English patentees.

And whether right or wrong the ancient rules, It will not do to call our fathers fools.

I find first, John Dickinson, dating January 19, 1809, No. 3,191. This was known as a cylinder machine. This cylinder was made of sheetbrass, perforated much in the same manner as the covers of suction-boxes of to-day, but the holes were countersunk, " until the line of division was no wider than a hair." This cylinder was covered with wire-cloth and internally it de very smooth having only two spiders, which formed the ends; the hubs were bored out to fit a stationary hollow shaft on which the cylinder revolved. This stationary shaft was the means by which the stationary suction-box or trough was sustained at any angle to the interior of the cylinder ; the water and air from the suction passing through the same hollow shaft, "and for this purpose the box or trough is fixed in the inside of the cylinder and made to fit tight all round its upper edge ; the pipe is connected with a pair of double-acting pumps placed in a cistern of water, so that when those pumps are put in motion the air inclosed be ween the trough and cylinder is immediately drawn out, and consequently the pressure of the atmosphere takes place upon the surface of the cylinder, which is covered with pulp, and thereby rendered nearly impervious to the air. The immediate effect produced is the squeezing out the water and laying the pulp down in a mpact state on the surface of the cylinder, so that the paper cannot be disturbed by the pressure of the said rollers." In 1836, Mr. Casson applied this principle to the Fourdrinier by putting this box or trough below the surface of web of wire-cloth.

The next is Leger Didot, May 26, 1812, No. 2,568. This was a machine to make paper on molds such as had been done by hand, the molds being fastened close together on endless chains, the molds passing over a box that had air-pumps attached. This inventor does not seem to much importance to this part, but merely men tions the fact.

The next is George Dickinson, February 21. 1828, No. 5,617, and the next was John Wilks, April 28, 1890, No. 5,934. Both of those suction boxes were revolving and the principles of both formation of the revolving shell, and they were placed and operated in the same place and manner as the one illustrated and specified in THE JOURNAL of September 10, 1881. Wilks' reads thus : "And the expedient by which the said effect is produced is the making of a partial vacuum on the lower side of the said web of wove wire, while the wet sheet of paper lies on the upper side thereof, so as to cause the weight of the atmospheric air to press the water from the paper and through the wire." The next is James Brown, November 7, 1836. No. 7,098. This is the one that several of your correspondents have claimed to be the first of any utility, and in order to give his claim a fair chance I will have to give a lengthy extract from his specification, which is as follows : "My invention of a certain improvement on machines or apparatus for making paper, has for its object a better and more perfect application of a vacuum under the endless wire-cloth or web of paper-making machines for the purpose of more effectually drawing the water from the paper pulp as it passes from the pulp vat to the couching roll or to that part where the set of partially drained or dried pulp is taken up from the web to be pressed or squeezed by rollers to expange the remaining portion of water in order that the said sheet of partially dried pulp may be in a better state for the rolling or pressing operation, and also the tex-

THE difficulty of obtaining statistics of our commerce with that country. Our Consul-General at Lisbon has, however,

struck this streak. It is only because in running through my files of THE JOURNAL to see whether it had ever caught on to a certain device, I was struck by the similarity of the changes in different topics discussed or suggested

in its columns. In one place there was a run on the question of sizing ; in another on the cylin der machine, which cropped out again last year, and now of late the talk about the suction-box, followed up by the excitement as to who devised the means of creating a vacuum in the box by means of a steam jet

THE JOURNAL has helped to carry out the method by printing, within the last few months illustrations and descriptions of several devices for extracting the water from the pulp passin over the suction-box by means of a vacuum effected by the use of a steam jet. The several different "ejectors" all embody the same principle, or perhaps I should more properly say, the same idea.

Mr. A. says that Mr. B.'s ejector will not de the work as efficiently as his own or as it ought to be done, and vice versa. Mr. C. claims the the trade of Portugal has helped to retard first suggestion of the application of the ejector to the suction-box and offers another form of ejector warranted to do the work. The paper maker stands by and wants to know all about around on the anxious seats of trade. It's lately supplied some estimates, and from the "row" and is ready to take up with any- "allee sames," however.

Several of the recipients of the cigars, I am informed, returned them at unce. Thought they were smuggled ! (If they were not they ought to have been.) If I may express an opin ion of the lot based on the samples which I tried, and connect it with the remarks of those who did not experiment, I am inclined to believe that those who did not return the "Fumars wished that they had done so.

A prominent Holyoke paper maker has been expressing a sardonic sort of gratification that the printers and publishers are at last obliged to wear out some shoe leather. He attributes recent failures in the leather trade to the fact that the market was full of paper, and he thinks that now the cloud under which the leather trade has been may lighten. I am afraid that that manufacturer has not counted the expenditure of leather involved in visiting the printers and publishers to invite them to buy paper, not to mention the reinforcement to the seats of breeches, rendered necessary by wriggling

much more practical benefit than the protracted discussion of the origin of the suction-box. I do not mean to decry the discussion on this use ful invention ; but if the vexed question is ever decided, it will not advance the price of paper s particle, nor will it dispose of the surplus proict, and these two qu stions seem n the most important and pressing problems before our paper manufacturers.

It is only repeating what you have already anid to say that to advance prices, the supply must be more in accord with the demand, and that the remedy lies in exportation ; yet, on the other hand, prices must not advance too much. or exportation will be prevented. With an extrade fairly established, these matter should adjust themselves.

I know that a committee has this matter of export under advisement, and that it is a difficult subject is sufficiently proved by the comm tee not yet being in a position to report upon it ; but while waiting for its report, it would do no harm, I think, for some of your readers who have had experience in exporting, to make suggestions for the general good. The arduous labors of Mr. Woolworth, as por-

trayed in his interesting statement at the last annual meeting of the Paper Manufacturars' Association, have demonstrated the ability of our manufacturers to compete successfully with those of other countries; and even if the prices ture of the paper improved. And I would here remark that I am aware a vacuum has been heretofore applied to various paper mak-ing machines, but in all instances the box chamber in which the vacuum is formed and over which the endless web passes, carrying the paper pulp, has been invariably covere with some perforated kind of lid or cover intervening between the interior of the box and th under side of the endless wire-web or cloth, and impeding the effective operation of the vacuum whereas, my present improvement applies more particularly to the horizontal or Fourdrinies paper-making machine, and consists in applying the vacuum in a box or chamber under such horizontal wire-cloth or web without any cyl-inder, and more particularly without any perd covering or lid intervening betwee said box or chamber, and the under-side of the said wire-web, the wire-cloth passing over the otherwise open box with the paper pulp when it is equally and at all parts affected by the vacuum, without its operation being interrupted by any perforated lid or cover or other intervening substances. And, in conclu-sion, I would remark that I do not mean or intend to claim, as my invention, the applicatio of a vacuum to all kinds of paper machines; but I do claim as my invention the application o the same to the horizontal web or wire-cloth of a Fourdrinier machine in the vacuum herein de scribed, that is to say, without the intervention of any cylinder or any other thing intervening the open space of the box or chamb in which the vacuum is produced and the end lass web or wire-cloth which carries the paper pulp. At the same time, I would remark that proper arrangements must be made to support wire-web, if thought necessary."

Now, in reviewing the whole matter, we find John Dickinson the first of whom we have any record. George Dickinson and John Wilks' de vices are the same in principle as John Dickin-son's, but differently applied. James Brown's patent is nothing more nor less, than John Dickinson's stationary box or trough removed from the revolving shell, and placed under the orizontal web or wire-cloth divested of the perforated lid or cover, and we find in Jame "That proper arrange Brown's last remark, ment must be made to support the wire if thought necessary," how it is that not more than one in a hundred of the suction-boxes of to-day but have a perforated cover, and necessarily so. I give it as my opinion that John Dickinson's principle of the revolving shell, with several of them applied to the Fourdrinier web or wire cloth, under and over the sheet of pulp, will be the paper machine of the manufacturer, deliver ing the web of paper direct from the wire to the drying cylinders, sans couch-rolls, some press-rolls, and sums felts.

#### "Tis thus the spirit of a single mind Makes that of multitudes take one direction.

Now, a few words in regard to the many de vices that have made their appearance to pro duce an exhaust for suction-boxes. I find bodied in James Brown's patent of 1836, the plan of using steam as an agent. He, I think was the first to use steam. There are a great

many patents now, for using steam and it v take a very powerful microscope to see the dif-ference in the many patents granted to accomplish the same end or purpose. Then, we have had high columns of water and long-legged ns; but the one that takes the lead is Henry A. Barber's patent device of July 3, 1883, lately described and illustrated in THE JOURNAL. It was my good fortune to step into a mill where when the manager was at work, and kindly called my attention to it and explained its working, I was astonished on listening to the hurricane that was passing through the air-pipe It suggested great possibilities. This device recommends itself for its efficiency and its inexpensive method of operation.

I notice the criticism on my diagram of Wilks dandy by "O. H." "Of all the cants which are canted in this

canting world-though the cants of hypocrite may be the worst-the cant of criticism is the t tormenting !

He asks for Wilks' claim. Here it is : "The uses of my said roller, or the effect to be pro-duced by it when made in the manner hereinbe escribed, are not only to press out s tion of the water from and give to the said sheet of paper a greater degree of consis ncy but it may occasionally be employed to give to the maid sheet of paper somewhat the appearance of having been made upon a mold such as is well known to paper makers by the appellation of a laid mold

I think that "O. H." was very much inde to his imagination when he stated that Robert Didot obtained a patent upon the paper machine for making laid and wove paper, and infers that it was by the use of a dandy-roll. In the first place, there is no such name on the patent records connected with paper making or paper machinery; and in the next place, there was no patent granted in that year for any such process. But I think that I can tell you what he has reference to. Leger Didot hi ad a patent granted to him on May 22, 1817, in which the process of making laid and wove papers was em bodied. This machine had the appearance of what is now known as the Harper, and the paper was couched therefrom much in the same manner as by the said Harper in the process of making laid paper. There were a number of molds fastened close together on endless chains and the process of making wove was accou plished by substituting an endless web of wire cloth in the place of the mold and chains.

#### Personals

Henry J. Stone, publisher News, Sanford, Me., William Biggs, bookseller and stationer, Oxford, N. C., is dead. Merrill & Morse, printers, Auburn, Me., have George Schlegel, of the firm of Georg

Changes, Removals and New Firms,

icle, Charlottesville, Va., have sold out.

Districh & Weihe, booksellers and station

Milwaukee, Wis., have dissolved partnership.

Lewis Wright & Son, booksellers and station

N. Ure & Co., booksellers and stationers,

Toronto, Ont., have sold out to B. H. Rathwell.

The firm of Rogers & Co., printers, Memphis,

Rucks & Alden, publishers of the Delta Re

view, Greenville, Miss., have discontinued busi-

Charles A. Daniels has been admitted to part-

nership by H. C. Gray, publisher of the Malden

The style of the firm of Bentley & Gerwig,

manufacturers of twines, &c., New Brighton, Pa., is now Bentley & Gerwig (Limited).

The Pennsylvania Engraving Company, Phila

delphia, Pa., composed of Washington & Cas-pian, has been dissolved. Paschal G. Caspian

A dissolution has taken place in the firm of

D. O. Wallace & Co., booksellers and stationers, Littleton, N. H. D. O. Wallace continues the

Buck & Lindner, lithographers, New York

city, have entered into a limited partnership,

with special capital of \$10,000. The partner-

Christy, Shephard & Walcott, manufactures

of paper hangings, New York city, advertise a

special capital of \$135,000, the partnership to be

Frederick MacCrellish & Co., publishers of

Kerr & Chittenden, manufacturers of pape

collars, Galt, Ont., have dissolved partnership.

Harbor, Mich., have sold out to J. P. Thresher.

Warrenton, Ga., has sold out to Davis & Patillo

Rose & Miley, publishers of the Times, Benton

John A. Shiver, publisher of the Clipper,

J. J. Harrington, publisher of the Pacifle

Life, San Francisco, Cal., has sold out to D. L.

Bowman & Hirst, printers, Charlotte, N. C.,

Furber & Wallace, publishers of the Republic Littleton, N. H., have dissolved partnership

Frank E. Beach has been admitted to partner

ship with J. M. Emerson, proprietor of the Naugatuck Valley Sentinel, Naugatuck, Conn.

Tuttle Brothers, card printers, North Haven

Conn., have admitted F. C. Bradley to partner

hip and will do business under the same style.

The firm of Garton, Blewett & Co., booksell

solved. Garton, Berry" & Co. succeed to the

Mary Russell, stationer, San Marcos., Tex.

Fires.

The A. H. Hart Company, manufacturer of

twines, &c., New York city, has been damaged

The establishment of Robert Bishop, dealer in

paper stock, Boston, Mass., has been damaged

Passumpsic, Vt., destroyed the Passumpsic Pulp

A disastrous fire occurred at two o'clock on

Fuesday morning in the four-story brown-stone

were occupied by E. Wells Sackett & Rankin

fourth floor by Robert Foster, a manufacturer

of blank-books and ruled paper. The entire loss

ment and first three floors of the building

oners, printers and lithographers, and the

Th

front building at No. 34 Courtland street.

A fire on Sunday morning in the village

Company's mill. Loss not stated.

George C. Furber continues the business

have dissolved partnership.

John Hirst con

the Alta, San Francisco, Cal., have sold out.

ship, formed August 1, with

under the same style.

ship is limited to September 19, 1885.

falden, Mass.

continues the business.

limited parts

Lovy.

tinues the busin

& Ellison.

by fire.

by fire. Insured.

limited to June 30, 1884.

has sold out.

old out to W. S. Morse,

Schlegel & Son, lithographers, New York city. is dead L. & W. H. Waddell, publishers of the Chron-J. H. Hutchinson, formerly publisher of th

Transcript, Franklin Falls, N. H., died a few days ago. Catharine Moore, of the firm of C. Moore & ers, Holvoke, Mass., have sold out to J. D. Gill.

Co., manufacturers of twines, &c., Philadel-phia, Pa., is dead. Jeremiah Sturges is again on the sick list, having had to leave his business one day this week and go to his home. His indisposition is Tenn., has been succeeded by W. Spot Smith &

o way serious this time. W. F. Hawkins, who was reported last week as seriously ill, was only temporarily so, as he recovered sufficiently a day or two afterward to able him to be out and attend to business

Among the members of the trade visiting Philadelphia during the past week were D. Alex-ander, Lee, Mass.; A. R. Blacklock and E. J. Bond, Baltimore, Md.; C. H. Mullen, Mt. Holly Springs, N. J.

Edward Goodwin, Jr., of Perkins, Goodwin & Co., sailed, with his wife, on the Gallia on Wednesday, for Europe. He will be absent for about three months. This is Mr. Goodwin's about three months. first trip abroad, and he will combine pleasure with business.

Charles T. Crocker, of Fitchburg, Mass., was in the city this week, accompanied by his son and brother-in-law. Mr. Crocker is a young man to be a grandfather. This gentleman when about twenty years of age was a clerk for Vernon Brothers & Co.

#### SPECIAL NOTICES.

[Insertions under this heading will be charged 60 cents a line. Payment invariably in advance.]

MAURICE O'MEARA Packer of Rags and Paper Stock 277 Water Strater, New York.

EUGENE SULLIVAN Packer of Rags and Paper Stock 356 2 358, WATER STREET, NEW YORK.

THOS. BUTLER & CO. Rags, Paper Stock, Old Metals, 249-255 CAUSEWAY ST., BOSTON. M

### Market Review.

### OFFICE OF THE PAPER TRADE JOURNAL, FRIDAY, October 12, 1981.

THE MONEY MARKET .- The money man ket is amply supplied with loanable funds, but confidence has been so disturbed by an abuse of credits in the way of accommodation paper, dating of bills ahead and collusive preferences in assignments that the banks and discount houses are using much more than ordinary dis crimination in the matter of discounts The stock market continues unsettled, and the urse of prices as bailling as over. Government bonds are about steady, while ailway mortgages are irregular. Foreign exchange was rather easier until about the close when bankers' short bills beers, stationers, &c., Detroit, Mich., has discame firmer on an increased inquiry. Contin ental bills are a shade easier. We quote : has admitted Bettie Ellison to partnership, and the style of the firm has been changed to Russell Cable transfors... ..... 4.8516@4.80 Prime commercial sterling, long..... 4.81 @4.81% umentary sterling, 60 days. 4.8036@4.81 5.2394@5.24% Holt & Frisby, dealers in wall-paper, &c. Louisville, Ky., have dissolved partnership. A 35.21% new firm has been formed, under the style of Tracy, Holt & Co. 15.8714 15.90

Paris, bankers', sight	5.20560
Antwerp, commercial, 60 days	6.261/40
Swiss, bankers', 60 days	5.00560
Swiss, bankers', sight	5.19960
Reichsmarks (4), bankers', 60 days	0456/0
Reichsmarks (4), sight	94760
Guilders, bankers', 60 days	8994.0
Guilders, bankers', sight	40360
MITTE DATING OTDATOT D.	

9414

40%

THE PAPER TRADE .- Business with the city trade has progressed very fairly during the past week, and may be said to be undergoing a steady and gradual improvement, the impetus given to it by the placing of orders at the mills and with dealers during the drought being maintained. Prices, too, retain all of the firmness of previous reports, notwithstanding that the production is increased considerably. The drought must not be considered as entirely at an because, singular as it may seem, some manufacturers have been troubled more during the past week than at any time this season. There has not been sufficient rainfall to give full relief, the water soaking into the ground

ingle exception that the imports as compared with the heavy receipts for several weeks past have fallen off very materially, as will be seen by our totals under. We hear of a number of parcels of both Linens and Cottons having be closed out this week, and some of them of fair size, but the prices were so low in almost every instance that it has been found impossible to ge them with any degree of exactness. the number we may mention 125 bales S. P. F. F. Linens at 4%@4%c., and 25 tons extra fine The arrivals during the Blue Cottons at Sc. past week aggregate 3,120 bales and bags, embracing 1,214 hales Rags, 740 hales Old Papers, and 1,166 bales Manillas. DOMESTIC RAGS-The movement in

oderate way continues fair. Although manu facturers are buying a little more freely, dealers and packers are not able as yet to get any better prices. The demand has been so light during the continuance of the drought, and stocks accumulated to such an extent, that, now that the mills are consuming more largely, the trade look for somewhat better prices very shortiy. Among the sales reported were 100 bales No. 1 City Whites at 4%@4%c., 150 hales No. 2 do. at 2%c., and 125 bales Seconds at 1%@1%c.

BAGGING &c.-Gunny Bagging has been firmly held on the hasis of last week's prices, the further allowance in Jute Butts not seeming to have imparted any greater strength to Bagging. Prime No. 1 Manchester is still offering at 1%@ 21/sc. and No. 2 do. at 1%@1%c. Manilla Rope is stendy at 3%@3.40c. for Domestic and 3%c. for English. We note among other sales 50 tons No. 1 Manchester Bagging at 1%c., 25 tons Burlaps Gunny at 1%c., 35 tons Domestic Manilla Rope at 3% @8.40c., 25 tons Jute Rope at 2.30c. and 15 tons Flax Tow at 11/c.

OLD PAPERS .- This class of paper stock has

shown more activity this week than for a long time past, although dealers find it very difficult to secure an advance in prices as the supply continues large of almost all grades. Shavings and Manillas attract the most attention, while Book Stock, Folded News, Straw and Binders' Clippings are very much neglected, and prices nominal. We quote: No. 1 Manillas at 21/cc. No. 2 do. at 1%@1%c.; Folded News, 1%c.; Hard White Shavings at 4c.; Solid Printed Book Stock at 2%@2%c., and Soft White Shavings at 3%@3%c. Ledger Stock at 2%@ 2%c.; Mixed Shavings, 2%@216c.; Light Book Stock, 1%@1%c.; Commons, 50@60c.; Straw Board Clippings, 50@60c.; Bogus Manillas, 90c. @\$1, and Binders' Clippings, \$1. Stri Cig 10 sl

Car Car Car Wo Wo

STRAW .-- Straw is quiet but firm for about all grades. We quote in New York : No. 1 Rye at 50@55c.; Short Rye, 35@40c., and Oat at

ROSINS. - There is very little doing in any description of rosins, and so far as reported sales are not beyond small lots. The market is a little unsettled and rather favors buyers. We quote yard lots, cartage included, viz. : C Strained, \$1.75 ; D Good Strained at \$1.85 ; E at \$2 ; F Good No. 2 at \$2.10 ; G Low No. 1 at \$2.30 ; H No. 1 at \$2.40 ; I Good No. 1 at \$2.60; K Low Pale at \$2.75; M Pale at \$3.00½; N Extra Pale at \$3.25@8.50 and W G at \$8.75

CHEMICALS .- Although consumers get ally are rather reluctant to operate freely at present prices, their requirements are such that frequent purchasing is found necessary. Bleach-Powder is cabled firm from abroad at £9 Is. 6d@£9 10s., and here the feeling is in sympathy, \$2.35 to \$2.50 being asked as to brand and quantity. Caustic Soda, 70 per cent., continues in demand and scarce, some holders asking \$3.50, although a fraction less would buy. Sal Soda is firmer. Soda Ash is steady. Sales are said to have been made here as follows : 250 cks. Bleaching Powders at 2.35@2.50c., to arrive and on the spot as to brand and quantity ; 300 tons Soda Ash at \$1.60; 300 drums Caustic Soda, 70 per cent., at 3%c.; 50 tons English Sal Soda at \$1.17%; 400 barrels Lump Alum, at 2c.; 300 barrels Ground do. at 21%c.; 650 barrels Pearl do, at 25/c. : 900 barrels Natrona Porous Alum at 2%c.; 100 tons Aluminous Cake at \$1.45; 30 cases German Ultramarine at 22c.; 30 cks. Antichlorine at 2%c.; 15 cks. Yellow Prussiate of Potash at 241/c.; 20 cks. Bichromate do, at 141/c.; 20 cks. Brown Sugar of Lead at 6%c.; 150 bbls. Corn Starch at 4c.; 50 bbls. Potato at 586c. : and 150 bbls. Venetian red at 1.56%c. CHINA CLAY .- There has been a little more

inquiry for English, principally for future delivery, for which sales have been made on the basis of \$15 for prime. The offering of

gons no change since our last review, with the the August list. They had a good trade during September at the list price, but it was evident others were not getting the list, and customers were leaving them. There is no agreement as to the selling price, and their action was perfectly legitimate. It seems to have made quite a stir, although the net prices are not below current sales for some time. Bituminous is running along in the old groove; there is no lack of coal and prices as a rule are low." Philadelphia and Reading Company at Port Richmond, N. J., quotes Lump at \$4.50; Broken, \$4.60; Egg, \$4.05@5; Stove, \$4.50@5.25, and Chestnut, \$4.15 @4.90. Lackawanna at Weehawken is quoted : Lump, \$3.90; Egg, \$4.30; Stove, \$4.70, and Chestnut, \$4.80

### PRICES CURRENT.

#### NEW YORK MARKET.

Paper Market.

DRALERS SELLING PRICES.
DBALERS BELLISS FRICES.           ger and Record
aue Hamilias, full courts, weight and set, 11 x 15, others sizes an proportion 19 0 20 rdware, No. 1. glassed, No. 1
28 ± 60, from 38 Ba to 48 Ba \$ r'm       1.00 0
W boxes, 50 books to the box, 200     0.35.00       Papers, 16-sheet quires     30.00       14 x 18     35       14 x 20     35       14 x 30     35       14 x 10     35       15 x 10     35       16 x 10     35       17 x 10     35       18 x 10     35       19 x 10     35       10
im, lump.       9         im, ground.       9/60         im, posta.       9/60         im, portus.       9/60         im, portus.       9/60         im, portus.       9/60         iminous Cake       9/60         d-Chlorine       9/60         Chromate Potash, American.       14/56         aching Powders, spot and to arrive 2.85       2.50         aching Powders, spot and to arrive 2.85       2.50         y, China.       Farglish, per ton.       12.50         y, China.       Star"       12.50       13.80         y, South Carolins, per ton.       12.00       13.80       9.7         y, Terra Alba, English, per ton.       80.00       4
tato Starria         532           mesian Blue, dry.         502           mina good strained, per bbl.         1.85           sina, good strained, per bbl.         2.30           sina, ford, No. 1, per bbl.         2.30           sina, good, No. 2, per bbl.         2.40           sina, row, No. 1, per bbl.         2.40           sina, row, No. 1, per bbl.         2.40           sina, row, No. 1, per bbl.         8.40           sina, row, No. 1, per bbl.         8.40           sina, cow, Son, Son, Son, Son, Son, Son, Son, Son

#### 493

"O. H." asks how young was I when caught. Just at the age 'twixt boy and youth, When thought is speech and speech is truth.

HARPER.

#### Failures.

The sheriff has taken possession of the plant of George B. Fraser, publisher, Morris, Man., and the same will be sold at auction.

is estimated at about \$55,000, which is probably covered by the insurance. The building was completely gutted above the second story. The stock and machinery of Robert Foster in the fourth story was a total loss. They were valued at \$12,000, and were only partly covered by insurance. The firm of Sackett & Rankin is the heaviest loser, the damage to its stock by fire and water being estimated at between \$30, 000 and \$40,000. Mr. Rankin said that there was an insurance of about \$50,000 on their stock which was divided among several companies principally the London and Liverpool and Globe, Lancashire and other English o nies The building, which is the property of the Union Theological Seminary, is damaged about \$10,-000. It is fully insured. The cause of the fire is not known.

#### In Town.

James Harper, Westville, Conn.; Colonel Bar rett, Athens, Ga.; Thomas Duncan, Pequon nock, Conn.; H. E. Rogers, Mr. Case, S. auth Manchester, Conn.; W. McCready, E. R. Solli day, Lambertville, N. J.; George W. Wheel wright, Boston, Mass.; Charles Crocker, Fitch burg, Mass.; G. W. Baker, Bradford, Vt.

A man working in the pulp mill at Turner's Falls, Mass., had a hand nearly ground off on a grindstone the other day.

JUTE BUTTS .- The market has become a little more quiet. The sales reported during the week comprise 2,000 bales at 2 7-32c. time, about 1.500 bales at 2 18-16c, and 500 bales selected quality at 2%c. cash. Holders ask 2%c. and upward, and buyers offer 2 18-16c. The native holidays have prevented any business in Calcutta and prices are, to a great extent, nominal in consequence of this interruption to the usual of business. About 500 bales of Bagging Butts have been sold at 2% to 2%c., and this quality is held at 2%c. and upward. At the seting of the Bagging manufacturers here on Monday and Tuesday, an agreement was made to still farther control production and almost every mill will close up for an undetermined

WOOD PULP .- There is a steady, fair denand, which is met by manufacturers quotiabout former prices, viz.: Poplar, 1%@2c., and Spruce, 2%@2%c., according to quality and shipping point.

WOOD FIRRE -- The market for this article remains about the same as reported a week ago, and if at all changed, there has been a little better inquiry, prices, however, ruling steady. We still quote 4%@4%c. for Bleached, and 3%@ 4c. for Unbleached.

FOREIGN RAGS AND PAPER STOCK-The general features of this market have under-

on the st ot continu as large for which \$16 is asked. We hear of sales of 50 tons at \$16 @17.50; 30 tons at \$15; 35 tons prime to arrive at \$15, and 60 tuns extra grade at \$16.50. We continue to quite prime at \$16@16.50, medium at \$15@15.50, and common at \$13.50@14. Southern continues in fair demand at \$11.50@12, but sellers experience considerable difficulty in keeping up with their contracts, because the its from the sources of supplies are restricted for various reasons.

COAL-Anthracite trade as a whole is in very good shape ; the local troubles are being smoothed over and the western and interior trade is in good shape. Saward's Coal Trade Journal says : "It is not probable that the managers are going to let prices slide off, at this son of the year, and the jobbers seem to hold this opinion, for instead of rushing to sell, they are quietly waiting for the excitem ent to pass away. At this writing no stoppage has been ordered, but we judge from the to one of the reports we get that one may be had to take effect next week for three days, and a fortnight later the same if necessary. There was some excite-ment in the local jobbing trade on Thursday and Friday last. The Delaware and Hudson Canal Company found they were not getting orders for October delivery in the proportion de sired to move their receipts and advised their

customers that rates for the present would be

Vitriol, blue Yellow Ochre	1.85 @ 1.45
BOSTON	MARKET.
Chem	ieals.
Alkali, 36 W cent	1.60 @ 1.70
Alkali, 36 🏶 cent	V 1860 116
Alum, American ground	2 @ 91Z
Alum, American lump,	1760 2
Alum, English lump, Alum, English ground	
Alum, English ground	236 234
Anti-Chlorine	8 @ 814
Si-Chromate Potash, Ame	rican 14 @ 1416
Bleaching Powders	2.90 @ 236
Blackley Blue. Caustic Soda, 70 % cent. (for	1.75 @ 8.00
Jaustic Boda, 70 w Cent. (10	rou w cent.) 8.90 @ 8
Clay, English, ¥ ton	
Jopperas, American, 🖗 D.	
Pertmant Loommood	9 7 9 7
Lime, Rockland, W bbl Prussian Blue, W lb. Prussiate Potash, America	1.00 @ 1.05
Prussian Rive St Ib	51 6 60
Prussiate Potsan, America	AD 94 @ 25
tosin, common strained,	B b 1.70 @ 1.80
Rosin, No. 2	1.90 @ 2.15
Rosin, No. 1	2.10 @ 2.50
Rosin, pale	3.00 @ 11.50
Rosin, extra pale	4.00 64.4.95
sal Soda, English, W D	1160 1.20
oda Ash, refined	1.55 @ 1.60
oda Ash, 48 P cent, causi	ic 1.50 @ 1.60
soda Ash, 48 P cent. carbo	onated 1.55 @ 1.65
Soluble Blue	55 @ 65
lugar Lead, white	13160 14
lugar Lead, brown	634 7
Sulphuric Acid, 66° Ferra Alba, Ston	15.00 (0.95.00
Titramanina 10 B	
Ultramarine, W. D	und 22 0 . 24
Ultramarine, W. N. G. bra Venetian Red, W D Vitriol, Blue.	1660 174
Vitriol, Blue.	540
Yellow Ochre	1122 8



PARTNER WANTED.

Journal

With from \$15,000 to \$20,000, to join advertiser in the manufacture of Card Boards, Glazed Papers and Playing-Cards in Canada. Advertiser can furnish proof of having cleared for others in same branch for neveral years from 30 to 31 per cent. net gain on their capital where others previously could not succeed ; is a good bookkeeper and correspondent ; known how to run all the machines required for the business, how to mix the colors, and has good connections for buying. One who could attend to selling the products preferred. Address A. B., Paper Trade Journal Office.

FOR SALE—VALUABLE PAPER MILLS. And other buildings and land, situate on the line of and close to the Delaware, Luckawana and Wester Railroad, at Sauquoit, Oneida County, N. Y. Ti mills are built of stone, expressly for Paper Mills. There is also an unoccupied site, between the two mills, which can be brought into use by a low dam at comparatively small expense, with water-fall of about 19 feet. One of the mills has a fall of about 18 feet, and the other of about 25 feet. A map of the premises can be seen with Mr. David Philips, at the store of J. Hayward & Co., 174 Fulton Street, New York. Mr. Philips is well acquainted with the mills. Reference may also be made to Mr. Charles J. Cave, 164 Fulton Street, New York. This property is worthy of the attention of persons or a company wishing to





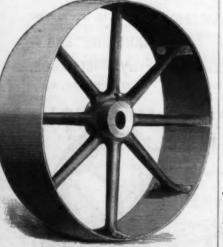
496

#### PAPER TRADE JOURNAL. THE

#### Wrought Rim Pulley.

Herewith is given an illustration of the Medart Patent Wrought Rim Pulley manufactured by McMurray & Stoughton, Hartford, Conn. This pulley is offered to buyers as a "perfect" pully free from the defects often found in cast pulleys. It is said to combine the minimum weight with maximum strength, and its advantages are set forth as follows : " It is stronger and more durable because of the

absence of shrinkage strains, to which cast pulloys are liable and which necessarily weaken The arms in this pulley are straight and them. cast with the hub in one piece without a rim. The increased number of arms places them in the most advantageous position to take the strain. The smaller sizes have six, the medium eight, and the larger ten or twelve arms. The rim, owing to the nature of its material, is much stronger than the cast rim. There is a great reduction of momentum and centrifugal It is lighter than cast-iron pulleys and it can with safety be run at much higher speeds. admitting of the transmission of the same



#### WROUGHT RIM WHOLE PULLEY.

power with much lighter shafting, hangers, belts, &c. It is balanced for all speed with-out the necessity of adding extra weights, owing to the fact that the rim is uniform in thickness and width, and that every part is exactly equi-distant from the centre. The spider is first ground concentrically with the axis of the pulley, after which the rim is attached and also ground from the same centre. The centre of gravity of a completed centre. Inecentre of gravity of a completed pulley made by this process is made to coincide more absolutely with its geometrical centre than has heretofore been possible under any of the old methods of manufacture. It saves belting. The ordinary wear of belting is largely due to slipping upon the rough and porous face of the cast pulley. The wrought-iron face be-ing denser than the cast, and ground smooth, tly lessens the wear. This smoothness has the further advantage that the belt adheres more closely to the pulley rim, and furnishes greater tractive power. It is proved in the sture, as the grinding process tes strength much more severely than any beltstrain that can ever come upon it."

The rim is cold rolled, either crowning or straight, and the pulley can be had whole or split, tight or loose, with single, double or triple sets of arms.

#### General Notes.

The Keystone Clay Company is getting or. ders for its product from mills in different States, and it is said that its clay is giving great satisfaction. The company invite inspetion and test of its clay.

Jamison's steam injector is identical in prin ciple with the ejector, the terms being inter changeable according to the method of apply This injector is in use in ing the apparatus. several paper mills for producing the vacuum in the suction-boxes of the machines.



### Manufacturing News.

### EASTERN STATES.

The Clark Machine Company, Turner's Falls, Mass., has just placed one of its largest-sized fire pumps in the Albion Paper Company's Mill at Holyoke, with friction gearing to run it. The pumps will throw 1,000 gallons of water per min

The directors of the Springdale Paper Company, Westfield, Mass., have voted to at once They will use screenings for fuel.

put a larger engine into their mill to increase its capacity to three tons per day, as the present output of two tons does not keep up with their orders.

MIDDLE STATES. A new paper mill is said to be under way at Wilkesbarre, Pa.

SOUTHERN STATES. Wm. H. Hoffman & Sons' Paper Mills, Balti-

more, Md., are setting a tubular boiler with the Jarvis patent furnace at their Rockdale Mill. New Patents

No. 282,166. Paper-Bag Machine.-Thomas Coates and Joseph J. Bissicks, Bristol, County of Bristol, England. Patented in England February 25, 1879, No. 759; in France, Augusta 22, 1879, No. 120, 753 in Belgium, August 33, 1879, No. 49, 122, and in Germany, November 29, 1879, No. 10,749.

No. 283,309. Paper Box. - Richard R. Colburn Ansonia, Conn.

No. 283,322. Preparing Paper for Copying Purposes --Morgan W. Brown, Brooklyn, N. Y., assigno to Washington Quinlan, same place.

F. A. BURGERCE, Supt. G. K. SHOENBERGER, Prop'r. CHICAGO STEAM BOILER WORKS.



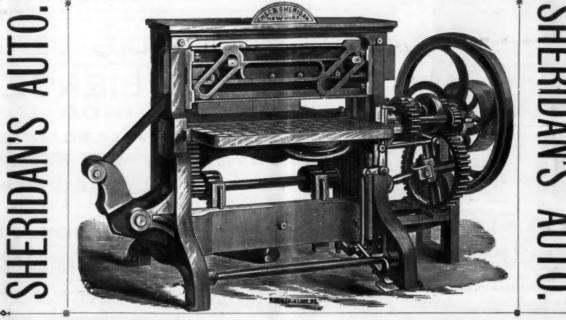


## THE GREAT THROUGH ROUTE

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T. W. & C. B. SHERIDAN, 25 Center St., New York. CIPAL\* BEST line to St. Joseph Topeka, Deni llas, Gal





HIS is the only Self-Clamping Cuttor in which the knife is operated from above, and in which the pressure of the Clamp upon the paper is always greater than the resistance against the knife, without the aid of Springs, Weights, or Friction of any kind, POSITIVELY AUTOMATIC. 2007 Send for Price List ; also of our Hand-Clamp Cutter, "THE SHERIDAN," the old reliable.

The Moore Filtering Machine is in use in our mill, gives entire satisfaction, and I can recommend it as a practical device for use in

This is to certify that we are using one of the Moore Filtering Machines-using it all through the time when the water was the worst, giving us ample water for two engines-and I can safely say that it is the best filter for paper mill use, where a large quantity of water is wanted, than anything I have ever seen or tried yet, and can recommend it to anyone wanting filtered water. D. P. WILLIAMS, Superintendent Holyoke Paper Co.

### THE ONLY FILTER 21

in which the principle of "control" has been perfected. Which exteriorly indicates the condition of the filtering material in it, and the precise position of the working parts. That will give large results with a low head of water. That can always be cleansed without removing the filtering material.

It will operate freely without cleansing for a longer time than any other Filter. It is superior in its construction operation, and in the quality and quantity of the filtrate furnished, to any other device yet invented.

### PUBLIC COMPARATIVE TEST INVITED (IN HOLYOKE) WITH ANY OTHER FILTER.

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G. H. MOORE, Norwich, Conn.







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