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WHOLE NUMBER 648.

Fibre-Cleaning Separator.

VOLUME XV.-NO. 40.

Trade Topics.

An illustration is given of a machine for separating fibres, whether long or short, from foreign substances, whereby the fibres are cleaned for use in manufacturing paper or other stock.

It consists of a screen or perforated shell adapted to contain fibres with an agitator adapted to agitate the fibres by repeatedly lifting them from the perforated portion of the screen or shell, and permitting them to fall back thereon until the foreign substances have been separated from the fibres and passed out of the shell through the perforations. The cut represents a plan view of the separator, with a portion of the cover broken away to show the inner parts. The frame A is supported by uprights or legs, e, and itself supports a semi-cylindrical perforated screen or shell, B, and the agitator D. The shell may be a wire screen or a thin shell of any desired material. The perforations or meshes b may

be of any desired size or number. The agitator D is adapted to rotate or partially rotate in suitable bearings, i i, located at the ends of the frame, and is provided with radial arms a a and crank-handle H at one The agitator shaft occupies the position end. of the longitudinal axis of the semi-cylindrical shell, and the radial arms are adapted to be oscillated within the shell in planes right angular to their supporting shaft.

There may be a cover similar in shape to the shell and hinged at one side to the shell or frame A.

The machine may be operated in a horizontal position or in an inclined position. When the fibres to be cleaned are long it is preferred to secure the apparatus in a nearly horizontal position, removing the agitator and partly filling the shell with the fibres to be cleansed, distributing the fibres along the length of the shell; then replacing the agitator in its bearings, the arms extending down among the fibres and letting the cover down by means of the crank-handle partially rotating the shaft of the agitator back and forth, which gives the arms an oscillatory motion and thoroughly agitates the fibres by lifting them up, first on ne side of the shell and then on the other, and letting them fall again directly upon the perforations, until all loose and foreign substances have left the fibres and passed through the perforations, leaving the fibres within the shell thoroughly cleaned and fit for use, after which the cover is lifted, the agitator removed and unclean fibre substituted for that which has been cleaned, when the operation may be When the fibres are comparrepeated. atively short, or no longer than the fibres are usually wasted, the agitator is which secured in an inclined position, and the cover is provided with a suitable opening at the higher end, through which the fibres are introuced with constant flow.

By oscillating the arms as described, the fibres are not only separated and cleaned, but they are continuously fed toward the lower and open end of the shell, where they pass out

ing in a vertical line, pass from one arm to the arm next below it on the shaft, thus traveling from one arm to another at each oscilla tion of the arms. It is obvious that steam or other power may

be applied to operate the agitator. The legs and supports may be of any desired form or material. When used in an inclined position, the cover may be fixed upon or form a part of the shell. The machine is chiefly designed for saving

the waste of jute or manilla stocks.

Chipping the Jordan Engine.

[WRITTEN FOR THE JOURNAL.] BY JAMES F. HOBART.

"Chipping the Jordan" is a familiar job to the millwright, and it can be made hard or easy, according to the amount of brains possessed by that dignitary. A set of

greatly lighten the task of chipping the shell. These tools, especially the longer ones, for chipping the inner end of the shell, should be made with an offset of about one inch for the larger tools, 21% or 3 inches from the cutting edge, and the tool so ground that the face of the tool is worked next to the shell, instead of the bevel of the tool, as

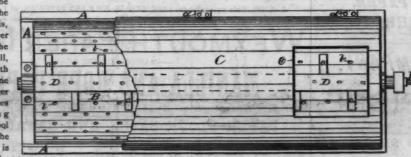
are heavy enough to allow of their being used by momentum, still they are not so heavy as to forbid the use of a mallet.

Short, medium and long tools I inch. 56, 1/2 and 3/2 inch wide, together with common 11/2 and 2 inch framing chisels, go to make up the necessary kit of cutting tools, and a sledgehammer, mallet, hand-hammer, large and small monkey-wrenches, screw-driver, pinchbar and a big crowbar or lever make up the necessary tools. To these may be added one or two pieces of pipe for rolls, a plank or two, a jack-screw and a pair of chain falls stout enough to lift the cone; if a pair of rope falls are available, so much the better, and so are a couple of rag-bale trucks and a pair of wooden horses whereupon to place the spindle and cone. All of these things are not absolutely necessary for doing the job, for like most other millwrighting jobs, it can be done with a monkey-wrench, a hammer, a chisel and plenty of time and brains. Millwrighting is such a hard wearing trade and so quickly breaks a man down that he is entitled to use every available facility for making his work lighter as well as for saving time.

If there is any chance to put an eye-bolt in the timber or floor directly above the large end chain falls to the first eye-bolt, and the rope for handling the cone when ready.

the pulley, placing a "bait" or fulcrum about twelve inches from the pulley and under the plank ; let the fulcrum be high enough that the plank shall lie nearly level when bearing against the pulley and fulcrum. Let the helper hold up the plank while you twist the pulley to the end of the spindle, and get it about half off, then let the helper bear down on the plank until he barely takes the weight off the pulley. Now if you draw the pulley off, while he swings the plank to accommodate you, the pulley will easily be removed without fuss or lifting, and your helper can lower his end of the plank until it rests on the floor. Then he can take hold of the pulley and roll it to an out of-the-way place. The pulley may be easily replaced on the spindle by reversing the above line of operations, and this too may be done while many millwrights would be hunting up half a dozen hands to help lift the pulley back on the spindle.

The adjustable bearing must next be stripped off, then the box and braces which form tools made from $\frac{1}{2}$ -inch octagon steel (8-its support. The writer is in the habit of square) for the smaller pieces of filling, $\frac{1}{2}$, freeing the whole device from the Jordan 3% and 3% inch steel for the larger places, will head, then making fast to it with the chain dan has been once chipped this wooden ring



FIBRE-CLEANING SEPARATOR.

when a common chisel is used. These tools | falls which have been left hanging to the eye- | bolt overhead. Pull up on these falls until the slack is all taken up, then remove the adjusting screw and the cap of bearing ; then slack away on the chain falls and lower both box and its slide to a truck placed underneath to receive it, after which it may be lowered thereon and trundled to one side for your helper to thoroughly clean while you are chipping.

Next take all of the bolts out of the large head and see that they are all cleaned and nicely oiled before being put back again. Drive the head off of the shell by striking with the sledge in half-a-dozen places around its edge, and be very careful that the thin edge is not broken by the hammer. When once free from the shell twist the head along the spindle six or eight inches, then twist it back again toward the shell. This will loosen the packing, which can be easily removed. Next take two turns around the stuffing-box with the bight of a rope, and make fast to the rope falls which are hanging from the second eyebolt. The head can be easily removed and carried away upon a rag truck, as the box was done.

Usually, after the gland is removed, spindle will slide through the packing in the small end of the engine ; otherwise it must be removed with a packing hook. Attach the of the Jordan engine, then do it by all means, chain falls to the spindle, close to the cone, cleaned, ready for use, and are removed by an and put a similar eye-bolt six feet from the by means of a rope; take up the weight of first but away from the engine, and just in line the cone, then attach the rope falls to the same with the centre of the machine. Hang the rope to which the chain falls are attached. Pull on the rope falls and the cone will slide out ; tackle to the second, and you are nicely rigged by slacking on the chain falls the cone may be drawn out until the end of the spindle barely rests in the small-end stuffing-box. Then remove the chain falls, attach them as far forward on the cone as possible, and the cone may be swung out of the stuffing-box and the large end of the cone placed upon a rag truck, to be easily run back until the front end of the spindle is free of the shell : then it may be raised bodily and placed on the horses, the spindle resting directly on the pieces of board in which notches have been cut, permitting it to turn easily without danger of rolling off

has become rotten. If so, replace it with new by cutting out holes at both ends of the length, also a short hole in the middle ; drive blocks in these holes ; then cut out the two remaining pieces of wood and fill their places likewise Be very particular, in chipping around the feed opening, to make sure that there is plenty of room for the stuff to come down into the machine. One Jordan the writer recollects which would not run an engine of stock in three hours, and it was decided to have the machine chipped, which was done, and found to work no better. A little investigation showed that the cone, forward of all the knives, had not been touched, and that it completely filled the corresponding part of the shell to the entire exclusion of pulp.

Sometimes, when an engine is newly filled. the cone projects a little beyond the shell when set back and the large end cannot be bolted home when this happens. To remedy the trouble, a circle of wood, one-half inch, more or less, in thickness, is cut out and slipped into the large head, being held in place by the thin flange before mentioned. After the Jor-

should be removed otherwise there will be just so much unnecessary clearance between the head and cone, and in this place stuff will collect and perhaps come out when it is not at all desirable, perhaps bringing a dash of some forme color with it. After the chipping has been finished the cone and spindle may be replaced as

described for taking them out, but after the cone has reached the position when one end is on the truck, and the pulley end of the spindle just entered into the shell, it is well to make fast the chain falls so that the spindle will just balance them; then enter the spindle in the front stuffing-box, put the chain falls in the spindle close up to the cone, and slide it quickly into place.

Atter putting on the large head, trouble is frequently met with in putting in the bolts. Some of these bolts want to go in particular places, and refuse to be screwed home if not put in that particular hole. Now, this is too much trouble, so just have a bottoming tap made to fit these bolts, and one application of the tap will remove the trouble forever.

For packing the Jordan, the writer usually fetches a loose hemp rope from the ragroom. This is untwisted and each strand in turn untwisted until the tow is straight; then three bunches, about half an inch in diameter, are braided loosely together and drawn through a dish of tallow, made as soft as cream by melting in oil. A braid of this size, about eight feet long, will pack both ends of the engine, and will need little, if any, attention for a year.

In setting up a Jordan, the gate-box, if one is used, as always should be done, should be placed far enough away from the Jordan head to allow that head to he removed without first removing the gate-box. All that is necessary to do this is to have the pipe connecting the bottom of the large head with the gate-box made long enough to reach the box when it is placed in the desired position. The box in question is usually stuck close up against the Jordan shell, and in some instances it is cut partly away to allow room for the head bolts. All of this may be avoided by placing the gate-box against a wall or post; it may be located many feet from the engine if necessary and still work equally as well. When built of wood these gate-boxes are apt to get rotten, the gate sticks, and often gets to leaking so badly that it is impossible to make the stuff rise over it. A neat brass affair is now made which removes all of this difficulty, and is much more pleasant to the eye than the clumsy wooden affair usually seen.

times this is very expensive, owing to the distance, causing heavy freights, and when this is the case it pays to buy a set of knives all ready to be placed in the engine. The solid filling for the cone and the "onion" filling for the shell (this "onion" filling is made of layers about a quarter of an inch in thickness and renders the operation of chipping very easy) can all be ordered with the knives, and only fitting and driving are necessary, after which the Jordan may be ground with sand and water and be all ready for work.

It pays to have an extra Jordan engine on hand at all times, so that when one needs chipping or filling, it can be set on one side, the spare engine put in its place and got to running with hardly an hour's delay.

The speed has a great deal to do with the excellence of work done by a Jordan engine. If it is desired to "just brush" the stuff, the speed will not matter as much as if the stuff was too long and needed much cleaning. In this case, if the Jordan is to run 250 revolutions per minute, it is exceedingly desirable to have it run at that speed and not be above and below it.

Driving by an overloaded engine is to be particularly avoided, as when it is done the change of speed can be distinctly heard in the Jordan every time that the engine passes over the centres, and if it be a long-stroke automatic engine the trouble becomes very marked-un-bearable, in fact, if the fly-wheel or main pulley of the engine chances to be too light, or is running too slow.

The Acid or Bisulphite Processes.

[WRITTEN FOR THE JOURNAL.]

It is well known that continual jarring even of pure lead will soon disturb what are termed the molecules, when crystallization ensues; first the elements of cohesion are marred and displaced, and the metal becomes hard, but all are fully recuperated and an equilibrium restored by subjecting them to a temperature of about 400° Fahr., which may be safely done without fear of affecting size and shape. That no mistake may occur in making the joints, connections and the like in the preliminary processes, I subjoin the follow. ing table of melting points of various metals :

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Although, strictly speaking, many of the above-named metals will not unite without the addition of a third or fourth, nevertheless fair joints may often be made by fusing together two edges of metals having quite a difference in melting points. I have made some good steam joints in this manner, but it is not safe to go too far with experiments of this kind. In making the elbows and all short turns, where the diameter is large, I have found it much better and cheaper in the end to hammer, say, one-half the section out of a solid ingot and then the mate, and subsequently burning them together. This can be easily done over a form that any mechanic can make. This method is far preferable to bending lead tubes, and, as far as running into molds, I have never succeeded except by making the piece much thicker and heavier than necessary. It will be found an easy job to hammer if the metal is warmed frequently. By this means reducers can be made, and when burned and finished up in good shape look as well as any and are mu uch better, for even with heavy lead castings they are apt to be porous and spongy, something impossible with hammered goods, and with large diameters it is next to impossible to make short bends and curves without distorting the bore, which may lead to disastrous results. With a three-inch pipe, after the entire plant had been erected. I found that one curve -made by binding a lead tube-had nearly closed the bore, so much, in fact, that the fumes were arrested and condensed, the liquid running back down the pipe and stopping the concern altogether. With storage tanks and their accessories great care must be taken that they rest on a firm basis, or else some sag will displace a

endless belt or in any desired manner.

Each arm a occupies a position on one side of its supporting shaft directly opposite the space between two arms on the opposite side of the shaft, and when an arm on one side has oscillated to the highest point any fibres falling from it will pass down upon and beneath the next arm below it, which latter arm passes to the highest point on the other side of the shell, carrying with it the fibres just fallen from the arm next above it, from which the fibres fall to the next arm below, and so on until they are expelled from the shell at its lower end.

the fibres from one end of the shell to the other is found in the fact that the arms oscillate in planes right angular to their supporting shaft, as before stated, and that the shaft is inclined, so that the lower side of the circular plane that would be described by a complete revolution of any given arm about the shaft is m about the same vertical plane as the upper side of the plane described by the arm things, and not do them by main strength. scraped and greased before replacement. Notice, during chipping, if any of the

First of all, remove the belt. This can be ne by running off the pulley, but it is not well for the belt to do so. Such usage will do for belts under eight inches wide, but for wider belts, throwing them on and off pulleys soon cuts, cracks and wears them out. Such usage is worse than the regular wear. It is better for the belt to put on the clamps and The explanation of the forward movement of take out the hooks, or to cut the lacing, but do not do this unless the lacing is too much worn to be used again.

Next, remove the pulley from the engine spindle. It does not pay to keep half a dozen men around all the time to do the lifting and pulling. In most millwrighting jobs, work crevices in the cone. Get out all the dirt and can be done faster and easier if more calculation is made to take advantage of

the horses.

Saw the handle off of an old broom and let the helper thoroughly clean out the shell and stuff. Also knock the slide out of the sandbox, and have both slide and grooves well

Notice, during chipping, if any of the filling it back to the maker to be new filled. Some-

After a Jordan has been chipped all it will, it is customary to load it in the cars and send

(Continued on page 475.)



Correspondence.

Boston Notes.

[FROM OUR REGULAR CORRESPONDENT.] EASTERN OFFICE PAPER TRADE JOURNAL.

3. 188E. A review of the paper trade for the past month shows that the movement of paper from dealers' hands during September has been of very good proportions. So far as the for October is very encouraging ; prices, however, still rule lower than the conditions of

the market would seem to justify. While report of the committee before which the manufacturers and paper dealers recognize the fact that the market value of paper is too low, competition is so great that buyers have the advantage.

In paper stock business seems to drag along from day to day without much change. Although the volume of paper stock moved during the past four weeks has been larger than for the previous month, the business has been done at very unsatisfactory prices to dealers. In this case it is the paper maker who has the advantage. The only firmness noted is that of paper-stock dealers in maintaining that prices are as low as they will be, since they are as low as they can be. Said a paper-stock importer: "We have

The chemical market is in fair condition, a good jobbing trade being reported. Bleaching superintendent powders have lost their buoyancy, quotations this week being 1% cents for store lots and kins & Co., of Bristol, N. H., announce that 1.721/2 to 13/4 cents to arrive; market firm at they have organized under the laws of New these prices hut quiet. There is only a Hampshire a corporation known as the Mamoderate demand for soda ash reported at son-Perkins Paper Company, and will con-11/2 to 13/2 cents. Caustic soda is in fair job- tinue the manufacture of paper and strawbing demand at 2.471/2 to 21/2 cents per pound board as heretofore and under the same genof 60 per cent. Soda crystals are quoted at eral management. B. F. Perkins is treasurer 921/2 to 95 cents, with fair demand.

491 casks of soda ash, and 280 barrels of soda crystals.

The receipts of paper stock for the same period of time were 31 bales of rags, 777 bales of paper stock, 92 bales of paper waste, and 32 coils of old rope-a total of 932 bales and coils.

Other receipts include 240 casks of china clay, 410 bags of hide cuttings, and 453 barrels of rosin.

The promise of the Boston Board of Health demand for paper is concerned the outlook to modify its regulations so as to admit rags at this port without being subject to steam heat has not as yet taken official form. The long hearing on rag disinfection was held was accepted by the Board of Aldermen some weeks ago, and being sent to the City Council, that body, after a hard fight, also accepted the report, the vote standing 32 to 34. The next move is awaited with interest.

Although the Board of Health is silent upon the matter, the feeling among importers is very strong that no further interference will come from the health officials. This point Chelsea, Mass., are fixing up the roller skatwill probably be tested in a week or two, as by that time some shipments of rags are expected to arrive at this port.

Train, Smith & Co.'s paper mill, at Bristol, N. H., is expected to be running by the middle of October. The mill has been thoroughly struck bottom and can get no lower; we are overhauled and put in complete repair at heavy expense. The capacity is five tons a heavy expense. The capacity is five tons a E. Hall's church, Union Park street. The day of manilla paper. C. A. Lucas is the

Under date of September 13 Mason, Per-

date include 1,219 casks of bleaching powder, Colored papers have been a specialty with the manufacturers in times past, and they will continue this line as a part of their output

Philip Greely, representing E. H. Haskell. paper dealer, is on a business tour through the Northern part of New England.

J. L. Hobson, president of the Glen Manufacturing Company, is in town this week. Wellington Smith, of Lee, Mass., and C. A. Crocker, of Holyoke, Mass., are among recent visitors.

About four weeks ago the Gien Manufacturing Company, of Berlin Falls, N. H., started up its second machine, and is running to-its full capacity on wood news.

On Friday night, September 24, the stock houses and buildings of the Fall Mountain Paper Company, Bellows Falls, Vt., were damaged by fire. The loss is not as large as at first estimated, it now being stated at \$25,000. The company was insured in the Manufacturers' Mutual of New England. The paper-mill machinery was not damaged and the mill is now running again.

Gibbs & Son, wall-paper manufacturers, of ing rink in Malden for the manufacture of print papers, and the firm expects to move into the new Malden factory in about two weeks.

The funeral of E. W. Dennison, founder of the Dennison Manufacturing Company, took place in this city on Sunday last from Rev. E. attendance at the church services was very large, among those of the paper trade present being Hon. Alexander Rice, of Rice, Kendall & Co., and Colonel Jordan, of Pulsifer, Jordan & Pfaff. The floral tributes were very numerous, the Boston Paper Trade Association contributing a handsome floral gift in the shape of a closed book. The pall-bearers were : H. K. Dyer, New York city ; F. B. Gilbert, Philadelphia; F. E. Pope, Boston; 25/2 to 95 cents, with fair demand. The receipts of chemicals for the week to Mason and N. H. Weeks are the directors. Pond, Boston; J. F. Talbot, Chicago; Albert and small, have all had their say on the matter it is hoped to have it ready for occupancy by

The remains were interred at Newton, Mass. DELESDERNIER.

Holyoke Notes.

[FROM OUR REGULAR CORRESPONDENT.]

HOLYOKE, Mass., September 30, 1886.

The paper trade is feeling the influence of the general improvement all over the country, and some of the mills notice an increase in the number and size of their orders. There are very few mills in this city whose product is not well covered by orders for some little time ahead, and this order of things ought to reign for a number of months. The season of the year has come when more paper is used in all kinds of business, and the demand should be brisk for some time to come. The publication of books which have been delayed on account of the uncertainty of the times ought to come along, and many other things which call for large quantities of paper ought to be heard from soon. There is no change in prices of sufficient importance to chronicle, and it is unlikely that they will go any lower, as the low-water mark was touched some time ago, and the tide ought to flow the other way. Fine writings are moving quite freely this week and in larger volume. Book papers are responding to the increasing call, and a marked improvement in this line is noticeable. There is a quiet movement in news, and manillas are in better request. The stockmen are an unhappy lot, because their business does not seem to increase as it should. Manufacturers are all buying very closely and in medium lots. There is very little call for either foreign or domestic rags.

The investigation of George M. Bartholomew's affairs has been going on for several days, but very few developments which have not been fully enlarged on by the daily press

Metcalf, Boston, and C. E. Sawyer, Roxbury. and having exhausted their vocabularies have paused to take breath, and as a consequence are taking a calmer survey of the situation. It is thought, from the tone of several letters which have come from the missing financier, that he would gladly return to Hartford and assist his friends in the task of straightening out his affairs, if he could be assured that he would not be introduced to a felon's cell. He has called attention to the fact in several of his letters that, if he could be allowed to help in the unsnarling of the tangled threads, he could put his creditors in a way to realize more out of his assets to meet his obligations than if the business was managed by persons unacquainted with their true value, present or future. Mr. Bartholomew says, in regard to his personal liabilities, that in indorsing the paper of the several corporations he relied wholly on the representations of these companies as to their ability to meet the same when due and did not think that he was exceeding a safe limit. The receivers are now busying themselves in ascertaining the value of the real estate held by the several companies and to determine how much property has been disposed of for which no account has been rendered. The creditors of the Schuyler Electric Light Company met at Hartford on Tuesday, and after discussing the situation pretty thoroughly adjourned for one week, when their committee will meet the stockholders and try to effect some sort of a settlement. The local water-power company holds about \$200,000 worth of Bartholomew's paper, which it claims is amply provided for. Outside of this, the banks and private individuals hold \$40,000 or \$50,000 worth of it. There are those here who still have faith enough in Bartholomew to believe that he will yet return and do his best to make an honest settlement of his affairs, but the number is

> somewhat small. The new addition to the Beebe & Holbrook



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THE PAPER TRADE JOURNAL.

November 1. The room thus gained will greatly increase the company's facilities and will afford additional conveniences which have long been desired. It is probable that these improvements will cost the company in the vicinity of \$70,000 and will be money well invested.

Emory H. Walker, foreman of the Valley Paper Company's rag-room, has bought a residence at Beechlawn, for \$3,500.

Paul Grimm, of Bautzen, Germany, who is pleasantly remembered in this city, having spent two years at the Albion Paper Company's mill learning the American methods of paper making, has arrived in this country and expects to visit Holyoke soon. The cards are out for his wedding, which occurs at West New Brighton, S. I., on Tuesday of next week. The young lady of his choice is Isabella L. Clarke, daughter of John S. Clarke, a well-known citizen of West New Brighton.

Paymaster E. M. Estes, of the Holyoke Envelope Company, who is a staff officer in the Odd Fellows, spent a portion of the week in Boston taking part in the observances.

The marriage of Susie, daughter of Moses Newton, to Henry L. Russell, is announced to occur on October 12.

D. J. O'Neill, who has been employed by the Whiting Paper Company as a machine-tender for a number of years, recently severed his connection, and his fellow employees presented him with a handsome lounge.

M. J. Leavitt, of the Dickinson & Clark Paper Company, our local oarsman, was defeated by J. W. Joyce in the single-scull race at Springfield this week. H.

Paper Manufacturers and Cellulose.

The raw materials at present most made use of for the manufacture of paper are wood, straw and esparto, which, when rightly handled and combined, make fine white paper, the low price of which astonishes all those not initiated into the secret of this kind of manufacture. In order to be able to compete successfully in this line it would be well if each paper maker could himself prepare the wood, straw or esparto pulp necessary for his own use, a combination far less complicated than many would imagine.

In order to attain this end one must naturally not fall into the error of the greater number of those who have built manufactories for the production of cellulose, and principally of bisulphite cellulose, and who have spent such us sums in their proposed enterprise that, for want of means to continue working, many have been obliged to close soon after having begun operations, and some even without ever having been in regular working In some of these manufactories giorder. towers, lined with lead, have been gantic erected at the cost of large sums of money and their uselessness is now perfectly established. Almost everywhere ovens have been built for the calcination of pyrites ; these ovens are no longer used, and in some works have never even been heated. American boilers, with treble partitions and lead linings, have been made use of, costing each as much as £1,600; these boilers require permanent repairs, and would not have been in anywise necessary for the manufacture of the finest cellulose if the unfortunate speculator had only taken the trouble to find out how certain foreign mills make that kind of cellulose, which, notwithstanding all competition, always takes the highest price. I will not here speak at length of that other well known inconvenience, consisting in the sulphurous liquor that cannot be got rid of without danger of endless lawsuits with the river conservancy or with the town councils. For my part, knowing as I do the drawbacks of this manufacture, I should never have run the risk of building a mill for the fabrication of bisulphite cellulose, being perfectly aware that, with far less exure and far less danger, one can make chemical wood pulp of better quality than that obtained by any of these methods.

The reader will understand that I cannot here give a full description of the system which I am occupied in promoting, and that I can only seek to give as clear an idea as possible namely: considerable economy in buildings and machinery ; abolition of all lead linings ; freedom from the inconveniences arising from the discharge of sulphurous or other liquor ; the ability successfully to treat with the same material three different substances, and the great economy of a mode of manufacturing this pulp of quality superior to that of any other kind of cellulose These suggestions are principally made for the manufacturers who make white writings and printings, and for whom white pulp is a matter of necessity; but I must add that the manufacture of "blonde" and brown wood cellulose, which cost less to fabricate than the white, and with which one can make unbreakable millboards, such, for instance, as the

white pulp; knotted or crooked parts of the tree can be used, pine heavily charged with resin, the crusts of trees coming from sawmills, and refuse wood of all kinds ; all these are easily disaggregated and rendered supple by the system I propose, and give a paper almost as strong as that made from wood of superior quality; the characteristic difference consists in the shade and purity of the pulp.

The art of paper manufacture is no longer such as it was ten years ago. Paper making at that time was far more complicated than it is now on account of the almost exclusive use of rags, which required sorting, boiling, bleaching. &c., and gave likewise much work for the mixing of divers qualities of pulp ; these rags took up much room, necessitated numero pulp reservoirs and great horse-power. The mechanical art of the engine-man consisted principally in knowing how to manage the rag-engine so as to beat the rags properly, making use of all the power and speed that the mill could afford. Pulp engines are now a thing of the past, and are not classed by the modern paper maker among the accessories of his mill. Those who possess many of these engines seek to get rid of them, or, if they maintain some few, it is only as recipients for coloring, sizing, or diluting the pulp. A new and improved system of edge runners now replaces the pulp engine, for late experiments have proved that it is weight, combined with speed, which acts on the pulp made after the new system.

The cellulose that I am now seeking to in troduce, when well combined, takes the place of rags. Esparto cellulose represents cotton rags; on this pulp the water-mark takes easily, standing out purely and clearly; wood cellulose stands for linen rags ; straw cellulose re places unbleached rags and is at once size and farina. With these three varieties of cellulose, paper of equal quality to the good sorts of ten years ago can now be made at a third of the ancient cost price. These kinds of cellulose can be manufactured at a low price, but at the same time they must not be handled indifferently; if the pulp remains a few moments too long between the engine-roll and bedplate, this suffices to destroy the inestimable quality of the fibre. In order to preserve the natural tenacity of the three different fibres that I have mentioned, as well as the silky and brilliant aspect required in modern papers, this pulp should be crushed and refined between stone runners having a bed-plate of another nature. Thus handled, cellulose made either of wood, of straw, or of esparto, has the fibre drawn out to its full length, it is defibrated and refined, and gives a paper which is strong and has body. The mechanical wood pulp added to this cellulose takes the aspect of rag pulp and is no longer apparent, whereas triturated stone against stone, chemical as well as mechanical pulp is ground to powder, and gives a paper at once heavy and thin, which is not accepted by the purchaser.

My object in writing this article is to intimate to the paper manufacturer that he can now easily make and prepare in his own mill the cellulose that he requires, and which is best suited to the quality of the paper that he produces. The question of the necessary wood is of minor importance, for it is not always in the most wooded regions that the greatest number of mills producing wood cellulose are found. In France, for instance, where there is certainly no lack of wood well suited to this purpose, many manufacturers make use of that coming from Norway and Sweden, these two nations selling it there at a price which enables it to compete with that of native wood. In Great Britain wood is not scarce ; if I do not mistake, several counties, Kent for instance, are rich in fir trees; in Wales, likewise, there should be much wood suitable for making cellulose. Should this, however, not be the case, or should the forests belong to landowners not inclined to fell their trees, it is certain that as soon as the manufacture of cellulose shall be introduced into England, wood will reach there in abundance from all sides.

It must not be supposed that I am advising the installation of important works for the sale of cellulose to the paper maker, though there is no reason why in England such works should not be built, thus freeing your manuof the numerous advantages that it offers, facturers from the necessity of taking their wood pulp from abroad, but my principal object is that each paper manufacturer who can possibly do so should make his own cellulose, suiting the quality and the quantity to his requirements. Some will perhaps object that they use so little of this kind of pulp that it is scarcely worth while making it themselves. If these manufacturers will let me know to how much the quantity of cellulose used in their mills amounts in the course of the year, I will prove to them at all events the economy that they would secure would be well worth their attention. Others will say that they are same installation is equally well suited for the strict conservatives and that no other than rag pulp shall ever be used in their works. I would not be so discourteous as to say that I have some slight doubt of this assertion, though I could tell an anecdote of a paper-American stiffeners for boots, and a kind of maker friend of mine who was lately telling packing paper able to resist the most violent me of his conservatism in the rag-pulp line, tension, and which, calendered, is as bright as and who, half an hour later, in the heat of a mirror. For this "blonde" and brown cel- conversation on paper matters, lost sight of ulose such choice wood is not required as for his strict principles, and in answer to a sam-

ple of cellulose that I had shown him brought forth a sample of the last wagon-load he had received.

It cannot be denied that wherever paper is manufactured, cellulose is one of the requirements of the day, and is likely to become more and more necessary as by degrees every paper maker shall have introduced it into his produce. There exist, certainly, many inventions, and several of them give very good pulp; but everywhere the complaint is the same-the works cost too much to build and keep up, and consequently do not pay. In an article which appeared in the July number of the Paper Makers' Monthly Journal, the cry was loud against foreign cellulose makers, whose mills have cost them so much to build that they are obliged to sell their pulp at prices which are to the great detriment of those who make use of the same. This article concluded with the remark that those who raise so high the price for their pulp seem to forget that consumers in Great Britain are quite capable of setting up cellulose manufactories for themselves, and what I say is that they should do so at once .- A. Abadie, in Pape Makers' Monthly Journal, London.

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(Continued from first page.)

joint and a leak occur. These sometimes cause great damage and it is impossible to trace out and remedy the defect until the mis chief has all been done. One concern has had to replace a large engine and fine battery of boilers, besides much other expensive machinery from this cause, the vats being over the machine-shop, and too few props and stays placed under ; they would be in the way, said the boss. With this digression I will now talk more of these experiments with new methods

The experimental digester was again lined with lead, the capacity in gallons being the same as before, and the space around the lining, between it and the boiler or shell, filled with dust charcoal, or that portion which blew over in cleaning and reburning charcoal for chemical purposes ; this was received direct from the ovens and was perfectly dry, hence no opportunity to generate steam, and was a perfect non-conductor. The top and bottom space was first hermetically sealed and the heads well bolted on. Pressure was held at eighty pounds nearly seventeen hours and there was not the faintest perceptible trace of displacement in the lining, and it was particularly noticeable that the outer shell expanded but very little, and at no time was hot enough to make it uncomfortable to the bare hand when held against it.

No one will, I think, need to be told that there is no necessity, so far as amount and character of the pulp is concerned, of the outside boiler being hot, and so far as these experiments teach the heat usually felt at this point materially detracts from the general results. It has been shown that the wood, subjected to these three influences, heat, pressure and acid, undergoes chemical as well as me chanical changes, and if all three of these conditions are requisite -a fact yet to be established-then we have crippled one very important element, also made it less by using it to expand these large boilers.

Again, it has been shown as the result of scores of tests that among the principal causes of the lining wearing out so soon, crawling and bagging nearly at every heat, is the unequal expansion of the two metals and the lack of contraction of the lead; hence it is plain to be seen that some means must be adopted to prevent this. We have seen that this very heat which expands the iron is communicated by the lead, which in response to the internal pressure forces against the iron, and is the means, or rather, direct transmitter, of this element of mischief.

The only question to be decided so far as this lead trouble is concerned, is the cheapest and most efficient method of prevention. I have tried coating the lead on the outside water outside of the shell, and other methods too numerous to write out, and the only economic and at the same time efficient and permanent method is to leave a good space between the two and fill with some nonducting material, as dry porous wood or charcoal, anything that will keep its form and shape when hot, and at the same time be a firm backing for the soft and yielding lead under pressure.

It has been suggested by an ex-pulp man of Chicago that the boiler should be made of the best steel and then plated with some non-corrosive metal as gold; this plan, al though costly at the start, would pay better than any linings of lead as now put in, for taking into consideration the original cost of the lead, the frequent renewals of rings and the thin plate of low-grade gold would soon approach insignificance, although sufficient of this metal is not forthcoming to practically demonstrate the theory at the present time.

Then, with the pulp, no matter what kind of digester or lining, it should by rights be treated in appliances constructed of boxes with one end open, composed of strainers, then one or more fans, kept in motion by outside power, causing the pulp to be forced through the strainers : these boxes can be arranged in the receiving-vat, the open end discharging the pulp, which has been forced through the strainers, to the machine, and I think could easily be arranged so that a number of strainers and fans could be worked from one shaft. I am having a small appliance of this kind made, and if it works as I have good reason to think it will, shall have results and illustrations of the process ready for my readers at an early day. These tests, the readers must remember, are by no means easy to make, and results are given as found, but try them before calling any one of them impracticable or theoretical.

Early Engineering Reminiscences.

BY GEORGE ESCOL SELLERS

It was several years before it was learned how the counterfeiters had obtained the peculiar water-marked paper, in fact not until the old United States Bank had become a Pennsylvania State institution, and when the facts were learned it was in so singular a way, savoring more of romance than reality, that I must be excused for what may run into a long digression in relating them. During the frequent conferences with Mr. Nicholas Biddle, in hope of reaching some mode of preventing counterfeiting bank notes, I learned in confidence much of what had been done in the detective line and its results by an unsuspected officer of the bank whose position was high, and who had become so much interested in the pursuit that in disguise he affiliated with some of the most desperate counterfeiters of the period ; although both he and Mr. Biddle have passed away reasons still exist why he must remain nameless. It was through his machinations that the most expert engraver and counterfeiter this country had ever produced was arrested, with all his tools and machinery, including a simple and most ingenious eccentric lathe with which he reproduced the work of Spencer's mole lathe, that had never before been done by counter feiters. The man was convicted and sentenced to the Eastern Pennsylvania penitentiary for a term that, at his age, amounted to a life sentence. The judge in passing sentence, in my judgment, committed a most unpardonable vandalism in ordering the destruction of the unique eccentric lathe and other ingenious appliances, and in seeing the order carried out, with the exception of a few burins and other small tools, which Samuel R. Wood, the then Warden of the Eastern Penitentiary, preserved; Mr. Wood was a Quaker and a most kindlydisposed man; he became interested in his prisoner and had wormed out something of the early history of this ingenious mechanic, who had gone astray "through force of circumstances that should be taken into consideration when judging the man." These were Mr. Wood's own words when expressing to Mr. Biddle his belief that if, by promises of shortening his term by procuring a pardon, his confidence could be gained, much valuable information tending toward the suppression of counterfeiting would result from it, but without some such course he was satisfied the imprisonment would be of short duration; for labor the man was listlessly picking oakum, and physically rapidly, sink ing. Mr. Biddle thought the experiment worth a trial. Soon after Mr. Wood reported that he had made no progress ; he had tried kindness, but the man had become more reticent; to all his advances he only received muttered monosyllabic replies. I suggested that he might probably be reached by giving him more congenial employment than oakum picking, and proposed substituting die-sinking, such as was then coming into use for stamping the corner of note and letter papers. Provided with samples and such tools of his as Mr. Wood had preserved, with him I had my first interview with the man in his solitary cell ; he was sitting on the side of his cot, his fingers locked together clasping his knees, a bundle of partly picked oakum lay by him; as we entered the cell he glared at us, his high, narrow, receding forehead, aquiline nose, thin, tightly-compressed lips, deep set, piercing eyes, gave him more the appearance of a caged eagle than a human being. Mr. Wood explained

that I had proposed work that he might find relief from oakum picking. He wanted none of it, nothing could kill time; at first he re Con. fused to listen to me; when he saw the kind of work he denied having the ability to do it ; he had never done it or seen it done. Then, looking at me, he burst forth in a perfect tor-"Can you tell me what became of that rent: red-haired fellow who was taken with me ; he fought the officers like a very devil, and yet, though I know he was secured and ironed, he was not brought to trial with me : I see it all now, he was a fraud, it was a trick to trap and me; if I was only free for a day, and could get my hands on him, his life should pay for and I would die contented " Mr to quiet him, said the man had a separate trial, and had been sentenced to a long term. in the His reply was: "I don't believe a word of it, he was too smart for that ; he was a splendid fellow with his pen; he never had his equal and never will again ; he could raise a note that would defy detection." I took from my pocket and held toward him his old burins and other small tools ; he seized them with trembling hands, he fondled them as if they were living ; their touch seemed to have totally changed the man-for when Mr. Wood took them from him, explaining that they could not be left with him, he at once agreed to try his hand at the work I proposed. In addition to his little tools he would require a light hammer, a small oil-stone, a bench or stool, with clamp or vise to work on. It was arranged that the dies and designs should be prepared.

with him, who was to deliver to him the tools and work, taking them away at the expiration of the time. After leaving the cell, Mr. Wood said it was necessary for him to have the consent of the prison inspectors for this change of labor; as to that, he had no doubt they would meet the evening before the time fixed on to initiate the man at his new work .- American Machinist. (To be continued.)

Packing for Bottles.

A new packing for bottles and all fragile articles is made of chemical wood fibre, is entirely white in appearance and possesses an elastic quality which is said to excel that of anything hitherto discovered or used for this purpose. It is made in Maine and is said to have the most tenacious and elastic fibre of any of the wood products, being very much thicker than any pulp board produced, and having a soft and felt-like appearance.

It is manufactured by special machinery and in form the completed article presents the appearance of a sheet of felt studded with small knobs. It is also applied to wall decoration, and when used in this connection it may be colored or bronzed in any desired tint and made in different designs. It is also utilized for carpet-lining and for stair pads. Its principal use, however, is the packing of fragile articles.

It is capable of being manufactured into sewed cylinder wrappers for bottles, and special machinery has been devised and built for the purpose of making cylinders to fit every size bottle. Each machine in operation turns out 15,000 cylinder wrappers per day, each one being made to fit the bottle like a glove.

Modern Progress.

With the tendency to rapid progress and improvement so characteristic of modern times, says the Mechanical World, when one discovery follows so rapidly upon the heels of another in almost every branch of applied science, and when one invention has barely time to establish its claim to pre-eminence ere it is superseded by something newer and better, there is fortunately a growing disposition on all sides to communicate and disseminate useful information as widely as possible.

Exceptions there will, of course, always be found to every rule, and although some firms with specialties of manufacture may be here and there met with, who are very jealous of any outsider knowing how they conduct their

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business, yet as a rule it will be found that kinds, and especially technical knowledge is those who are the most unwilling to communicate information to others are those who have least to boast of. While formerly it was the rule to work almost everywhere with closed doors, all strangers being jealously excluded, we now find that those firms who possess well-ordered shops, fitted up with every modern improvement in the way of machinery, tools, &c., are nowadays only too proud to show visitors over their establishments, and the principals take pleasure in pointing out and enlarging upon the merits and excellence of special machinery, and in showing how rapidly and with what excellence their goods can be produced. They have learned that isolation means stagnation or retrogression, and do not fear but court criticism, which may open their eyes to defects they had not previously thought of, and thus pave the way to further improvement and advancement.

Nowadays, when competition is so keen and everything seems to be moving at express speed and under high pressure, isolation, unless for some unusually exceptional object, certainly does not pay, and the most successful business men know that it is absolutely necessary to keep pace with the times -know what is going on around them, and adopt really sterling improvements as they are made, or otherwise make way for those Hence, free intercourse, the interwho do. change of ideas and knowledge, are essential to progress and throughout all the ramifications of business, and indeed of society, this principle is becoming more and more clearly recognized. He who knows least is the most jealous of the little knowledge he possesses. and is least communicative, lest others should get to know as much as he does. On the other hand, the really thoughtful and ingenious, those who are continually adding to the sum of human knowledge, are they who delight in enlightening others on any point on which they have any special information, or which they have with difficulty thought out for themselves.

The periodical publications of the press, and especially the scientific and technical journals, form the principal medium by which the newest information is disseminated, and the latest achievements in any particular direction are made known to the world ; and the literature of our own time is nowadays mostly written first of all for some enterprising publication, and published week by week. or month by month, before being made up, as formerly, in book form. Knowledge of most

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Personals.

Harry E. Jones, salesman for Woolworth & Graham, is very sick with typhoid fever at his home in Litchfield, Conn

Daniel P. Crocker, of the Crocker Manufacturing Company, Holyoke, who has been somewhat under the weather of late, his system having run down, has, under the advice of his physician, been taking a rest for a few weeks. He will soon be able to return to business

A receiver has been appointed for the publishing business of John C. Williamson, New York.

His sentence, in accordance with the Pennsylvania system, was solitary confinement with labor. Hours for this new work were arranged, during which a guard was to be Ser



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Jute Butt Brokers.	FORESTELLE, P., 21 Wallace st., Bridgeport, Conn.	Regis, E §	Totals 30,656 \$49,970	Linder & Meyer, Istrian, Liverpool, 337 cks.
CABOT, RAY & CO. Br Water st. DALAND, WILLIAM S., 224 Water st., N. Y.	LANEY, JAMES, & CO., Dealer in Paper and Paper Stock, Cotton and Woolen Rags, Rochester, N. Y.	Seymour Paper Company 1,150	Exports General Merchandise for the week ended September 28, 1886	Sudn Orystals. Warren & Co., Norseman, Liverpool, 280 bbls.
HANSON, CHARLES A. 97 Water st.	MASSASOIT MFG. CO., Gunny and Shivey Bagging	Taylor, John L 154 1,464	BOSTON IMPORTS.	China Clay. E. & F. King & Co., Istrian, Liverpool, 240 cks.
TUCKERMAN, G., 70 Beaver st., N. Y.	and Cotton Mill Sweepings, Fall River, Mass. MAYO, A. N., & CO., Successors to Dickinson & Mayo,	Wing & Evans 485	FROM SEPTEMBER 23 TO SEPTEMBER 29, 1886, INCLUSIVE.	Hide Outtings. Train, Smith & Co., Norseman, Liverpool, 244 bag
Note Broker. COLBY, C. A., Buys and Sells Notes of Paper Manu-	Rags and Paper Stock. Springfield, Mass. McKEON, P. & J., Dealers in Woolen and Cotton Rags,	Woolworth & Graham 180 70 546 Totals	Hooks. Carl Schoenhof, Pavonia, Liverpool, z cs.	Chas. A. Cheney, by same, 102 bags. Thomas Groom & Co., by same, 54 bags.
facturers and Dealers, 23 Nassau st., N. Y. GOLDMAN, M., & SACHS, Negotiate the Notes of	&c. 253 Fourth st., Brooklyn, E. D.	a. Cotton waste. b. Including 64 bales flax waste.	Chas. W. Sever, by same, z cs. Little, Brown & Co., by same, z cs.	S. T. Sharp, by same, 70 bags, Rosin.
Mirs. and Dealers of Paper. 4 & 6 Pine st., room 9.	MILLET, GEO. W., Straw and Manilla Papers, Paper Bags and Flour Sacks, 507 N. ad St., Phila., Pa.	c. Including 18 bales cotton waste. d. Including 670 bales cotton waste.	Dr. J. R. Chadwick, by same, 2 cs. C. C. Soule, Istrian, Liverpool, 4 cs.	White Brothers & Sons, Merrimack, Savannah,
Paper Clay. ACNAMEE & CO., RICH'D, 234 Broadway, N. Y.	RICHMOND & CO., F. H., Paper and Paper Stock Warehouse, Cotton Waste Dealers, Providence, R. I.	e. Including 6 bales cotton waste,	Paper, &c. Thomas Groom & Co., Pavonia, Liverpool, 1 cs. sta-	Order, by same, 435 bbls.
Paper and Paper Makers' Supplies.	SIMMONS, JOHN, Wholesale Dealer in Paper and Rags, 20 and 22 Decatur street, Philadelphia.	IMPORTS of Rags and other Paper Stock at the	Lionery. Houghton & Dutton, by same, 10 cs. albums,	TE RUNS IN OIL
BLDEN & DEAN, Paper Bags, Flour Sacks, Manilla and Straw Papers. 166 Fulton st., N. Y.	SNIDER'S, LOUIS, SONS, Manufacturers and Whole- sale Paper Dealers, 222 Walnut st., Cincinnati, Ohio.	Fort of New York for the month ended September 30, 1886, from the following named	A. H. Roffe & Co., by same, 4 bs. periodicals. Dennison Manufacturing Company, Istrian, Liver-	Dum Ble
UTLER & JOHNSON, 44 Beekman st., N. Y.	WILLCOX TAMES M & CO Wholesale Commis-	Ports, showing Quantities from each Port. Old Wood Manilla	pool, 1 cs., 22 b3. tissue paper. Paper Stook.	Mest Effection
CROTTY, JOHN, Paper Dealer, 398 Broome st., N. Y.	sion Paper and Rag Warehouse, 509 Minor street, Philadelphia, Pa.	Whence Imported. Rags. Papers. Pulp. Stock. Bales. Bales. Bales. Bales.	Horace Dutton, Manitoban, Glasgow, 96 bs. paper stock.	SET A TANK
EWITT, C. B., & BROS., Printing, Wrapping, Build- ing Papers. 48 Beekman st., N. Y.	Screen Plate Manufacturers and Repairers.	Alexandria 1,150 68	Horace Dutton, Istrian, Liverpool, 32 coils old rope, o2 bs. paper waste.	Sizes De Contractor
HOAG, JOHN T., Tribune Building, Room 57, N. Y. HUBBS, CHARLES 36 Beekman st., N. Y.	ASHMUN SCREEN PLATE CO., old plates renewed; charges moderate. P. O. Box 210, Paterson, N. J.	Antwerp <u> </u>	Smith & Co. (Canada), by same, 18 bags rags.	Figure 1 to Loss Hap
URLBERT, H. C., & CO., 53 Beekman st. MURPHY, JOHN J., 47 John and 5 Dutch sts.	HARDY & PINDER, manufacturers of Patent Cast- Metal Sectional Screen Plates. Fitchburg, Mass.	Bremen 284 Bristol 164	Montreal Banking Company (Canada), by same, 11 bags rags. Train Smith & Co. Normann. Linearch are by	NO END AND A CHICAGO NON Y
AURPHY, JOHN J., 47 John and 5 Dutch sts. Paper Manufacturers.	JUDSON, A. C., & WILLIAMS, successors to late Howard Judson, Holyoke, Mass., manufacturers of	Copenhagen 135 Dundee 465 992	Train, Smith & Co., Norseman, Liverpool, 579 ba. paper stock.	Un hauss Un and service in the
AND A F. White and Colored Tissue and Copy-	Patent and the ordinary Screen Plates. Straw Boards.	Genoa 19 357		
ing Paper ; mill at Peekskill. Paper Warehouse and office, 51 Beekman st., New York.	PINKHAM, T., agent for Androscoggin Pulp Co.'s White Box Beards and Ashland Leather Board, 24	Image: State	TRAIN, SM	IIH & CO
RRS & CO., Printing and Hanging Mills at Troy. Roll Papers a Specialty. Office, 13a Nassau st., N. Y.	Friend and 52 Elm streets, Boston, Mass.	Hull 688 174 850 2,215 Leghorn 170 — —	IMPORTERS OF A	
Paper Makers' Chemicals and Colors.	TUCKER'S, E., SONS, Straw Boards, Paper, Twines, Paper Box Mach'y, 100 Trumbull st., Hartford, Conn.	Leith 47 91		IPTIONS OF -
HELLER & MERZ, Ultramarine, 55 Maiden lane, N.Y. RIKER, J. L. & D. S. 45 Cedar st.	IMPORTS AT NEW YORK.	London 1,259 896 1,901	Paner Malzo	rs' Sumplion
ERGEANT BROS. 132 Nassau st., N. Y.		Malaga 5 Marseilles 5 II6	T abor THAT	TO PARATTES
Printed Wrapping Paper.	FOR THE WEEK ENDED SUPTEMBER 24, 1886.	Nagasaki	24 FEDERAL ST	REET, BOSTON.
NUGENT, J. S. & Co., also Paper Bags and Boxes. 538 and 540 Pearl st., N. Y.	An. Colors 439 \$24,400 Paper 436 \$20,658 Alum 17 209 Steel Pens 3 1,153	Stettin		BEEKMAN STREET, NEW YORK.
E. O. STEVES & CO., also Paper Bags, Boxes and Twines, Grand and Centre sts. N. Y.	Alum's Cake	Iotals		T. MARY AXE, E. C., LONDON. IUND ST. CHAMBERS, LIVERPOOL.
Rags and Paper Stock. ATTERBURY BROS., 253 and 255 Front st.	Soda Ash 2,467 27,125 Clay	ø. Including 720 bs. cotton waste.		
BAKER, H. J., & BRO., Japan Rags, 215 Pearl st.	Soda, Sal 1,343 3,215 P. Hangings 12 967	NEW YORK IMPORTS.	BARLO	W & CO.,
CHARLES COHN & BAEDER., 253 Pearl st., N. Y. DARMSTADT & SCOTT, 312 Water st., N. Y.	Books 227 29,682 Terra Alba	FROM SEPTEMBER 21, 1886, TO SEPTEMBER 28, 2886.	WHOLESALE DEALER	B IN AND PACKERS OF
FITZGERALD, JAS. M., 133 & 137 So. Fifth ave., N.Y.	Newspapers. 141 5,578 Waste 55 7,868 Engravings. 96 16,498 Wood Pulp 3,777 5,378	Paper Block. J. H. Gildersleeve, Rhynland, Antwerp, 49 ba. wood	Woolon Dorg and Da	nor Mokora' Cumplio
FLYNN BROS., 61 Congress st., So. Brooklyn, N. Y. GILDEA, PATRICK, 445 & 447 West 13th st.	Ink	pulp. J. L. Taylor, Crystal, Dundee, 68 bs. papers, 369 bs.	WUUIGH NAZS AHU LA	hel-mayers ynhhile
HARLEY, CHARLES, Cotton and Woolen Mags, 362 Third st., New York.	Imports General Merchandise for the week	manillas. Woolworth & Graham, by same, 44 bs. manillas,	237 and 239 South Street,	and 66 and 68 Utica Street,
HENNESEV IAS & CO. 62 Duane st., N. V. Ware-	ended September 24, 1886 \$5,172,681	Perkins, Goodwin & Co., by same, 126 bs. papers. John H. Lyon & Co., State of Pennsylvania, Glas-		MASS.
houses, 110, 113 & 114 Navy st., 233, 235 & 237 Tillary st., Brooklyn, and 314 N. 8th st., Brooklyn, E. D.	IMPORTS OF PAPER STOCK AT NEW	gow, 19 bs. rags. Lewy Brothers, Eros, Hamburg, of bs. manillas.	WOOLEN RAGS GRADED	IN COLORS AND QUALITY.
HILLS, GEO. F., & CO., 98 Gold st., N. Y. HUGHES BROS., 00-66 N. 2d st., Brooklyn, N. Y.	YORK.	Burgass & Co., Fritz, Hamburg, 65 bs. rags. R. H. Overton, Galileo, Hull, 100 bs. manillas.	Crean	- P_ Ca
LIBMANN, JOSEPH, & CO., New Rags a Specialty. 158 South Fifth ave., N. Y.	JANUARY 4, 1886, TO SEPTEMBER 28, 1886.	Burgass & Co., Spain, Liverpool, 165 bs. manillas. J. W. Lyon & Co., Brittanc, Liverpool, 18 bs. cotton	SHEPAH	D & CO.,
LYON, J. W., & CO., 44 and 46 Duane st., N. Y.	Old Wood Manilla Rags. Papers. Pulp. Stock.	waste. Burgass & Co., Egyptian Monarch, London, 402 coils		0 - 0 0 1
LYON, JOHN H., & CO., 20 & 12 Reade st., N. Y. MCQUADE, ARTHUR J., 535 and 537 E. 13th st.,	Bales. Bales. Bales. Bales. Bales.	rope. W. H. Parsons & Co., Ludgate Hill, London, 51 bs.	PAPER*	SIOCK
N. Y. MORE & IRVINE, Rags, Paper Stock, Rubber, &c.,	Amsterdam 208 — 1,748 697 Antwerp 240 — 2,070 I	rags. Perkins, Goodwin & Co., by same, 207 bs. rags.		01001
59-65 Goerck st., N. Y. O'MEARA, M., 277 Water st., N. Y.	Aspinwall 450 80	J. W. Lyon & Co., by same, 65 bs. manillas.		ND DEALERS,
OVERTON, R. H., 8 Reade st., N. Y.	Bordeaux	Burgass & Co., Erin, London, 214 hs. old rope. Burgass & Co., Denmark, London, 130 bs. old papers.		TREET, BOSTON.
PRUMONT D & CO Deser and Dance Stock		M. A. Ring, Jr., A. Padre, Marseilles, 116 bs. bag-		
PEYTON, R., & CO., Paper and Paper Stock, 56 Thomas st.		ging.	TATTNIC	FITZ A NIC
56 Thomas st. ROZÉS BROTHERS, Tribune Building.	Calcutta	China and Japan Trading Company, Augerton, Na gasaki, 6 bs. rags.		
56 Thomas st. ROZÉS BROTHERS, Tribune Building. RUSSELL, M., Domestic Paper Stock of all grades. 30 City Hall pl.	Calcutta	China and Japan Trading Company, Augerton, Na gaaski, 6 bs. rags. J. W. Lyon & Co., Grodno, Stettin, 95 bs. bagging. E. Hatton & Co., by same, 50 bs. rags.	Commission	Merchants,
56 Thomas st. ROZÉS BROTHERS, Tribune Building. RUSSELL, M., Domestic Paper Stock of all grades.	Calcutta	China and Japan Trading Company, Augerton, Na gasaki, 6 bs. rags. J. W. Lyon & Co., Grodno, Stettin, 95 bs. bagging.	Commission No. 92 WILLIAM 87	Merchants, TREET. NEW YORK.
56 Thomas st. ROZÉS BROTHERS, Tribune Building. RUSSELL, M., Domestic Paper Stock of all grades. 20 City Hall pl. SAVAGE, JAMES, JR., 530 to 536 W. 38th st., N. Y. SERGEANT BROS., 132 Nassau st., N. Y. WARD, OWEN, & SONS. 448 & 450 West 30th st.	Calcutta	China and Japan Trading Company, Augerton, Na gasaki, 6 ba. rags. J. W. Lyon & Co., Grodno, Stettin, 95 bs. bagging. E. Hatton & Co., by same, 50 ba. rags. Burgass & Co., by same, 41 ba. rags, 181 bs. bagging.	Soda Ash, Sal Soda, Causti	Merchants, TREET. NEW YORK. C Soda, Bleaching Powder
56 Thomas st. ROZÉS BROTHERS, Tribune Building. RUSSELL, M., Domestic Paper Stock of all grades. 30 City Hall pl. SAVAGE, JAMES, JR., 530 to 536 W. 38th st., N. Y. SERGEANT BROS., 130 Nassau st., N. Y. WARD, OWEN, & SONS. 448 & 450 West 39th st. WYNNE, T. F., 13 & 15 Columbia st., Brooklyn, N. Y.	Calcutta	China and Japan Trading Company, Augerton, Na gasaki, 6 ba. rags. J. W. Lyon & Co., Grodno, Stettin, 95 bs. bagging. E. Hatton & Co., by same, 50 bs. rags. Burgass & Co., by same, 41 bs. rags, 181 bs. bagging. John H. Lyon & Co., by same, 2,335 bs. wood pulp. John H. Lyon & Co., Kovno, Stettin, 2,727 bs. wood pulp. Burgass & Co., Hekla, Stettin, 53 coils rope, 123 bs.	Commission No. 92 WILLIAM 87	Merchants, TREET. NEW YORK. C Soda, Bleaching Powder
56 Thomas st. ROZÉS BROTHERS, Tribune Building. RUSSELL, M., Domestic Paper Stock of all grades. JP City Hall pl. SAVAGE, JAMES, JR., 530 to 536 W. 38th st., N. Y. SERGEANT BROS., 130 Nassau st., N. Y. WARD, OWEN, & SONS. 448 & 450 West 39th st. WYNNE, T. F., 13 & 15 Columbia st., Brooklyn, N. Y. YOUNG, P., Washington av. near Wallabout Bridge, Brooklyn, E. D.	Calcutta	China and Japan Trading Company, Augerton, Na gaaski, 6 bs. rags. J. W. Lyon & Co., Grodno, Stettin, 95 bs. bagging. E. Hatton & Co., by same, 50 bs. rags. Burgass & Co., by same, 41 bs. rags, 181 bs. bagging. John H. Lyon & Co., by same, 2,335 bs. wood pulp. John H. Lyon & Co., Kovno, Stettin, 1,727 bs. wood pulp. Burgass & Co., Hekla, Stettin, 33 coils rope, 123 hs. bagging. Paper.	Commission No. 92 WILLIAM ST Soda Ash, Sal Soda, Causti BRUNNER. MOND & CO. C. ALLHUSEN & SON.	Merchants, TREET. NEW YORK. C Soda, Bleaching Powder Solvay process co. W. Pilkington & son
Sé Thomas st. ROZÉS BROTHERS, Tribune Building. RUSSELL, M., Domestic Paper Stock of all grades. 20 City Hall pl. SAVAGE, JAMES, JR., 530 to 536 W. 36th st., N. Y. SERGEANT BROS., 130 Nassau st., N. Y. WARD, OWEN, & SONS, 448 & 450 West 30th st. WYNNE, T. F., 13 & 15 Columbia st., Brooklyn, N. Y. YOUNG, P., Washington av. near Wallabout Bridge, Brooklyn, E. D. Straw Boards.	Calcutta	China and Japan Trading Company, Augerton, Na gasaki, 6 ba. rags. J. W. Lyon & Co., Grodno, Stettin, 95 bs. bagging. E. Hatton & Co., by same, 50 ba. rags. Burgass & Co., by same, 41 bs. rags, 13t bs. bagging. John H. Lyon & Co., by same, 335 bs. wood pulp. John H. Lyon & Co., by same, 335 bs. wood pulp. Burgass & Co., Hekla, Stettin, 53 coils rope, 137 bs. bagging. Paper. A. Ireland, State of Pennsylvania, Glasgow, 3 cs. L. De Jonge & Co., Rynland, Antwerp, 5 cs.	Commission No. 92 WILLIAM ST Soda Ash, Sal Soda, Causti BRUNNER. MOND & CO. C. ALLHUSEN & SON.	Merchants, TREET. NEW YORK. C Soda, Bleaching Powder SOLVAY PROCESS CO.
Sé Thomas st. ROZÉS BROTHERS, Tribune Building. RUSSELL, M., Domestic Paper Stock of all grades. 20 City Hall pl. SAVAGE, JAMES, Jr., 530 to 536 W. 36th st., N. Y. SERGEANT BROS., 130 Nassau st., N. Y. WARD, OWEN, & SONS, 448 & 450 West 39th st. WYNNE, T. F., 13 & 15 Columbia st., Brooklyn, N. Y. WOUNG, P., Washington av. near Wallabout Bridge, Brooklyn, E. D. Straw Boards. HAYES, JAMES E., & CO. 75 Duane st. IARGER, GUSTAV L., Straw Boards, Lining and	Calcutta	China and Japan Trading Company, Augerton, Na gasaki, 6 ba. rags. J. W. Lyon & Co., Grodno, Stettin, 95 bs. bagging. E. Hatton & Co., by same, 30 ba. rags. Burgass & Co., by same, 42 bs. rags, 182 bs. bagging. John H. Lyon & Co., by same, 2,335 bs. wood pulp. John H. Lyon & Co., Kovno, Stettin, 2,727 bs. wood pulp. Burgass & Co., Hekla, Stettin, 53 coils rope, 283 bs. bagging. Paper. A. Ireland, State of Pennsylvania, Glasgow, 3 cs. L. De Jonge & Co., Rhynland, Antwerp, 2 cs. Avery, Penabert & Co., by same, 5 cs.	Commission No. 92 WILLIAM ST Soda Ash, Sal Soda, Causti BRUNNER. MOND & CO. C. ALLHUSEN & SON.	Merchants, TREET. NEW YORK. C Soda, Bleaching Powder SOLVAY PROCESS CO. W. PILKINGTON & SON DON & CO.
Sé Thomas st. ROZÉS BROTHERS, Tribune Building. RUSSELL, M., Domestic Paper Stock of all grades. 20 City Hall pl. SAYAGE, JAMES, Jr., 530 to 536 W. 38th st., N. Y. SERGEANT BROS., 132 Nassau st., N. Y. WARD, OWEN, & SONS, 448 & 450 West 39th st. WYNNE, T. F., 13 & 15 Columbia st., Brooklyn, N. Y. YOUNG, P., Washington av. near Wallabout Bridge, Brooklyn, E. D. Straw Boards. HAYES, JAMES E., & CO. 75 Duane st. JAEGER, GUSTAV L., Straw Boards, Lining and Box Machinery. 136 and 136 Mulberry st., N. Y.	Calcutta	China and Japan Trading Company, Augerton, Na gaaski, 6 ba. rags. J. W. Lyon & Co., Grodno, Stettin, 95 bs. bagging. E. Hatton & Co., by same, 42 ba. rags. 182 bs. bagging. John H. Lyon & Co., by same, 42 bs. rags, 182 bs. bagging. John H. Lyon & Co., by same, 2,35 bs. wood pulp. John H. Lyon & Co., by same, 2,35 bs. wood pulp. Burgass & Co., Hekla, Stettin, 53 coils rope, 283 bs. bagging. Paper. A. Ireland, State of Pennsylvania, Glasgow, 3 cs. L. De Jonge & Co., Rbynland, Antwerp, 2 cs. Avery, Penabert & Co., by same, 5 cs. Berger Brothers, General Werder, Bremen, 4 cs. Wittemann Brothers, by same, 3 cs.	Commission No. 92 WILLIAM ST Soda Ash, Sal Soda, Causti BRUNNER. MOND & CO. C. ALLHUSEN & SON.	Merchants, TREET. NEW YORK. C Soda, Bleaching Powder Solvay process co. W. Pilkington & son Don & co. A Valuable Book for even
Sé Thomas st. ROZÉS BROTHERS, Tribune Building. RUSSELL, M., Domestic Paper Stock of all grades. 20 City Hall pl. SAYAGE, JAMES, Jr., 530 to 536 W. 38th st., N. Y. SERGEANT BROS., 132 Nassau st., N. Y. WARD, OWEN, & SONS, 448 & 450 West 39th st. WYNNE, T. F., 13 & 15 Columbia st., Brooklyn, N. Y. YOUNG, P., Washington av. near Wallabout Bridge, Brooklyn, E. D. Straw Boards. HAYES, JAMES E., & CO. 75 Duane st. JAEGER, GUSTAV L., Straw Boards, Lining and Box Machinery. 136 and 136 Mulberry st., N. Y.	Calcutta	China and Japan Trading Company, Augerton, Na gasaki, 6 ba. rags. J. W. Lyon & Co., Grodno, Stettin, 95 bs. bagging. E. Hatton & Co., by same, 45 bs. rags. 18 bs. bagging. John H. Lyon & Co., by same, 43 bs. rags, 18 bs. bagging. John H. Lyon & Co., by same, 43 bs. wood pulp. Burgass & Co., Hekla, Stettin, 53 coils rope, 183 bs. bagging. Paper. A. Ireland, State of Pennsylvania, Glasgow, 3 cs. L. De Jonge & Co., Ry same, 6 cs. Edward Kimpton, by same, 5 cs. Berger Brothers, General Werder, Bremen, 4 cs. Wittemann Brothers, by same, 3 cs. B. Westemann, Hammonia, Hamburg, 1 cs. Kaufmann Brothers, by same, 3 cs.	Commission No. 92 WILLIAM ST Soda Ash, Sal Soda, Caustin BRUNNER. MOND & CO. C. ALLHUSEN & SON. HAY, COR 64 STEAN	Merchants, TREET. NEW YORK. C Soda, Bleaching Powder Solvay process co. W. PILKINGTON & SON DON & CO. M. Yaluable Book for ever Steam User and Engine
Sé Thomas st. ROZÉS BROTHERS, Tribune Building. RUSSELL, M., Domestic Paper Stock of all grades. 20 City Hall pl. SAYAGE, JAMES, Jr., 530 to 536 W. 38th st., N. Y. SERGEANT BROS., 132 Nassau st., N. Y. WARD, OWEN, & SONS, 448 & 450 West 39th st. WYNNE, T. F., 13 & 15 Columbia st., Brooklyn, N. Y. YOUNG, P., Washington av. near Wallabout Bridge, Brooklyn, E. D. Straw Boards. HAYES, JAMES E., & CO. 75 Duane st. JAEGER, GUSTAV L., Straw Boards, Lining and Box Machinery. 136 and 136 Mulberry st., N. Y.	Calcutta	China and Japan Trading Company, Augerton, Na gasaki, 6 ba. rags. J. W. Lyon & Co., Grodno, Stettin, 95 bs. bagging. E. Hatton & Co., by same, 30 bs. rags. Burgass & Co., by same, 42 bs. rags. 152 bs. bagging. John H. Lyon & Co., by same, 335 bs. wood pulp. John H. Lyon & Co., Kovno, Stettin, 2,727 bs. wood pulp. Burgass & Co., Hekla, Stettin, 53 coils rope, 283 bs. bagging. Paper. A. Ireland, State of Pennsylvania, Glasgow, 3 cs. L. De Jonge & Co., Rhynland, Antwerp, 2 cs. Avery, Penabert & Co., by same, 5 cs. Berger Brothers, General Werder, Bremen, 4 cs. Wittemann Brothers, by same, 5 cs.	Commission No. 92 WILLIAM ST Soda Ash, Sal Soda, Caustin BRUNNER. MOND & CO. C. ALLHUSEN & SON. HAY, COR STEAN Published for FREE	Merchants, TREET. NEW YORK. C Soda, Bleaching Powder SOLVAY PROCESS CO. W. PILKINGTON & SON DON & CO.
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só Thomas st. ROZÉS BROTHERS, Tribune Building. RUSSELL, M., Domestic Paper Stock of all grades. 10 City Hall pl. SAVAGE, JAMES, Jz., 530 to 536 W. 36th st., N. Y. SERGEANT BROS., 130 Nassau st., N. Y. WARD, OWEN, & SONS, 448 & 450 West 39th st. WYNNE, T. F., 13 & 15 Columbia st., Brooklyn, N. Y. YOUNG, P. Washington av. near Wallabout Bridge, Brooklyn, E. D. Straw Boards. HAYES, JAMES E., & CO. 75 Duane st. TAEGER, GUSTAV L., Straw Boards, Lining and Box Machinery. 136 and 138 Mulberry st., N. Y. MALLORY & CO., C. A., Straw Boards, Lining and Box Machinery and Lining Papers. 23 Walker st. DUT OF TOWN HOUSES. Architects. TOWER, D. H. & A. B., Designs for Paper Box Maclinery and Lining Papers. 33 Walker st. Cuts for Printers of Wrapping Paper, Flour Sacks, &c. ZEESE, A., & CO., 155 & 157 Dearborn st., Chicago, III. Dandy Roll Manufacturers. BUCHANAN, BOLT & CO., Patent Seamless Wove and Laid Dandy Rolls. CHERY BIGELOW WIRE WORKS, Springfield, Mass. Pat. Seamless Wore and Laid Dandy Rolls. CHENEY BIGELOW WIRE WORKS, Springfield, Mass. Pat. Seamless Wore and Laid Dandy Rolls. CHENEY BIGELOW WIRE WORKS, Springfield, Mass. Pat. Seamless Wore and Laid Dandy Rolls. CHENEY BIGELOW WIRE WORKS, Springfield, Mass. Pat. Seamless Wore and Laid Dandy Rolls. Paper Makers' Chemicals and Colore. BLANCHARD, J. HENRY, Chemicals, Clays, Rosins, 10 Mills, HENRY, Chemicals, Clays, Rosins, 10 Mills, HENRY, Chemicals, Clays, Rosins, 10 Mills Wrapping, Cornelison avenue and Montgomery st., Jersey City, N. J.	Calcutta	 China and Japan Trading Company, Augerton, Na gaski, 6 ba. rags. J. V. Lyon & C.o., Grodno, Stettin, 95 bs. bagging. J. Hatton & C.o., by same, 32 bs. rags. Burgass & C.o., by same, 42 bs. rags. Burgass & C.o., by same, 12 bs. rags. Burgass & C.o., by same, 12 bs. rags. Burgass & C.o., Hekla, Stettin, 33 coils rope, 123 bs. Burgass & C.o., Hekla, Stettin, 53 coils rope, 123 bs. Burgass & C.o., Hekla, Stettin, 53 coils rope, 123 bs. Burgass & C.o., Hekla, Stettin, 53 coils rope, 123 bs. Burgass & C.o., Rhynland, Antwerp, 2 cs. Avery, Penabert & C.o., by same, 5 cs. Berger Brothers, General Werder, Bremen, 4 cs. Wittemann Brothers, by same, 3 cs. B. Westemann, Hammonia, Hamburg, 1 cs. Kaufmann Brothers, by same, 3 cs. B. Westemann, Hammonia, Hamburg, 6 cs. Stegler Brothers, by same, 1 cs. L. De Jonge & C.o., the same, 1 cs. C. De Jonge & C.o., La Gascogne, Havre, sc. Allen & Buece, 9 same, 5 cs. Berger Brothers, by same, 7 cs. colored. Taacas & Yought, Taormina, Hamburg, 6 cs. Steglich & Buece, by same, 7 cs. Eimer & Amend, Schiedam, Amsterdam, s cs. M. A. Schieffelin & C.o., La Gascogne, Havre, sc. A. Reilaitster, by same, 5 cs. F. McAllister, by same, 5 cs. Berger Brothers, Elbe, Bremen, 2 cs. BooKS, ames, to United States of Colombis, 78 ; to Brothers, 21 be Jongon, 37 cs.; to London, 30; to Liverpool, 13; to Nave, 45; to British Honduras, 3; to 1041, 3; to Havre, 12. PAFER, to British West Indies, 3, aoorms, 115 pkgs.; 10 London, 4; to British Honduras, 15; to New Zealand, 4; to British Honduras, 19, pkgs.; to London, 57 cs.; to Chard, 34, 55, to Chard, 36, 35, 35, 35, 50, Cuba, 7, 000 rms, 35, 36, 50, 50,	Commission No. 92 WILLIAM ST Soda Ash, Sal Soda, Caustin BRUNNER. MOND & CO. C. ALLHUSEN & SON. HAY, COR	Merchants, TREET, NEW YORK. Soda, Bleaching Powder, Solvay process co. W. Pilkington & son Don & co. A Valuable Book for eve Steam User and Engine. DISTRIBUTION by & WILCOX CO TURERS OF Bollers, No. 30 Cortlandt Street, NEW YOR No. 30 Cortlandt Street, NEW YOR No. 30 Cortlandt Street, NEW YOR M. SPAULDE & STRONG, No. 30 Cortlandt Street, NEW YOR ILDING, N. STRONG, CHICAGO, ILL. ILDING, RK. ISTRIBURG CO. Incorpore 1845 UPACTURERS OF S, Deckle Straps, So FACTURERS' USES. M. Printers' Blankets, &c.,

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THE PAPER TRADE JOURNAL.



THE PAPER TRADE JOURNAL is the recognized organ of the various Paper Makers' Associations of the United **tates**

THE JOURNAL contains the latest and fullest informa-tion relative to the paper trade in all parts of the world. including descriptions of new appliances and processes for making user-priments with new fibres and other materials, a record of the water supply, with the latest manufacturing news in all parts of the country. It gives the cream of all the foreign technical journals which relate to the paper interest, besides communica-tions from competent persons in the trade, both at home and abroad. The market review and quotations show the state of trade in all the principal cities, and no pains have been spared to make these accurate and

Advertisements cannot be received for insertion in the current week later than 9 A. M. on Friday. The charge for advertising is as cents a line, each insertion. Special terms for standing and displayed advertisements to be had on application. Card in Directory Column and one copy of paper, \$15 a year.

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

gladly received. All communications must be address

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TO CORRESPONDENTS.

As THE PARKE TRADE JOURDENTS. As THE PARKE TRADE JOURNAL is the recognized wehicle of communication in matters of trade interest, we will be glad to receive correspondence from all parts of the country. Information and suggestion upon pher-making topics are especially valuable, and mus-affacturing news and personal items are equally ac-contable.

Readers of this paper who avail themselves of the information obtained from its columns, by advertise-ment or otherwise, are requested to notify their cor-respondents of the source of their information.

Subscribers to THE JOURNAL can be supplied with the best cloth binder in the market. Deliverable at the publication office. Price \$1.25.

THE purpose of the fibre-cleaning machine illustrated on the front page is to save the loss usually incurred in the from jute and manilla stocks. The

but some new device or new suggestion Antwerp, 140 bales wood pulp; Bremen, is brought out in this line. We have several which we shall bring to the attention of our readers at an early day; but 135 bales wood pulp; Dundee, 465 bales what may seem to many the most extravagant is referred to in another column. The idea of plating the interior of a boiler with gold has been, we are assured, seriously entertained, and indeed it might prove to be less costly in the end if the coating could be made perfectly dense. Perhaps the right thing has not yet been tried.

WHILE our exports of paper seem to be growing slowly, the English export trade is reported to be falling off. In the last issue of the Paper Makers' Monthly Journal, that paper speaks of the further decline of trade, as shown by the July statement, and remarks: " Paper went from bad to worse, the outward demand for July showing only 60,243 cwt. shipped to colonial and foreign ports, the value being £113,600, against 70,718 cwt., value £133,212, in July, 1885. The outward trade for the seven months has amounted to 470,933 cwt., valued at £901,408, against 484,518 cwt., valued at £975,259, in the corresponding period of 1885. This would not be so disturbing but for the fact that we are overflowing with foreign paper. The arrivals during July amounted to 115,030 cwt., valued at £114,058, against 113,285 cwt., valued at £114.556, in the like month of last Still more marked is the inyear. crease in the quantity of paper imported during the past seven months, the totals being 807,735 cwt. of paper, valued at £790,231, in 1886, and 764,558 cwt., valued at £732,841, in 1885." These figures represent the actual consumption, after allowing for re-exports. This is certainly not encouraging to British paper makers; but then it is freetrade, a comforting thought, we have no doubt.

NOTING our exports of paper and stationery during the month of September, we find that shipments have been well sustained as to quantities in comparison with the same month last year, and that in the finer lines of paper there is a noteworthy increase, and this, too, to markets where we could scarcely, perhaps, have expected it. Taking up the figures for the fiscal year ended on June 30, we find that our exports of paper show an increase of \$134,123 in value, as compared with the preceding year, and have passed beyond the million-dollar mark which we, not long ago, expressed the hope might be soon attained. The exports of stationery during the same period show an increase of \$2,591. For the first month (July) of the current fiscal year our exports of paper were \$13,000, and of stationery \$1,000 greater than for the corresponding month of last year. It does not need any great effort at figuring to demonstrate that this improvement indicated as to values extends a great deal further when considered in its relation to quantities. There is no doubt that our export trade in these lines is growing, and if slowly there are more assurances of its stability. In presenting these figures of the export trade we have considered only those which refer to domestic manufactures, our exports of foreign-made goods not being included. With increasing evidence of the demand for their products it behooves American manufacturers to make further effort to extend their foreign trade.

PAPER-STOCK IMPORTS. The total imports of rags and paper

284 bales rags; Bordeaux, 80 bales rags; Bristol, 164 bales manillas; Copenhagen, old papers, 992 bales manillas; Genoa, 87 bales wood pulp, 147 bales manillas; Glasgow, 19 bales rags, 357 bales old papers; Gothenburg, 120 bales rags; Hamburg, 687 bales rags, 303 bales manillas; Hull, 688 bales rags, 174 bales old papers, 850 bales wood pulp, 215 bales manillas; Leghorn, 170 bales rags; Leith, 47 bales rags, 91 bales old papers; Liverpool, 967 bales rags, 103 bales old papers, 1,658 bales manillas; London, 1,259 bales rags, 896 bales old papers, 1,901 bales manillas; Malaga, 5 bales rags; Marseilles, 116 bales manillas; Nagasaki, 6 bales rags; Newport, 444 bales manillas and Stettin, 91 bales rags, 5,762 bales wood pulp, 452 bales manillas.

Watermarks.

BY DANDY.

That new company is going to use a phosphor-bronze boiler. Phosphor-bronze, I believe, has been tried before. Why does not somebody try aluminium ?

There is a great deal of experimenting going on in this bisulphite business. One man tells me that a good bisulphite plant, with all of the paper-making accessories, can be put up inside of \$100,000. Isn't this rather cheap compared with the costly arrangements which some people have been constructing and which others are talking of?

Another man says that he can get up a bisulphite plant for \$3,000. That man ought to make money.

I met Mr. Bremaker, one of the earliest, if not the very first person, to introduce the manufacture of bisulphite fibre in this country. He has been experimenting for four years, has a plant capable of turning out four tons per day, and is satisfied with the results.

The soda men are going to make a tight race with the bisulphite men for the control of the fibre market ; that is, provided all that we hear is true. Somebody says that soda fibre cannot be made as cheap as 11/4 cents. I am told that no chemical fibre can be produced under 2 cents. What do our friends say to this ?

Several new fibre projects are under consideration, and as for boilers "the woods are full of them." One of the latest is a glasslined boiler. How high was that?

The English papers state that the British Board of Trade has decreed that passenger steamers carrying cargoes of old rags will be refused clearance. This will add to the business of the freight steamers, but I do not see that it will affect the market here one 14

past.

got orders ; others did, and got-left.

This week somebody appears to have been moving stock which has long lain in store. I hear of China rags which were brought in a year ago last July, I think, changing owners, while four lots of linens, which have been in store for nine to eighteen

other lots, which I am told, have been in store Brothers & Co. is connected. That comseveral years. Why not move them around ? pany is to use the Flodqvist boiler, Just for exercise, you know.

lated liquor. Scarcely a week now passes rags; Amsterdam, 88 bales wood pulp; ing a manufacturer yesterday I quizzed him on the subject.

> "Why," he said, "there isn't a Fourdrinier machine running on strawboards in this country. There never were but three. A Philadelphia man conceived the idea of revolutionizing the trade. He built three strawboard mills in as many years, and placed in each of them a Fourdrinier machine. These machines have now all been taken out and that ended the revolution."

The new building corner of Reade and Elm streets isn't to be a paper-stock house after all. It's to be a "gin-mill," and is to be run by a man who has four other such places in this city. Well, there is more margin of profit in the latter business.

Last week I told about a swindler who has been using the name of William H. Parsons, thereby causing much annoyance to the ex-president of the Paper Makers' Association.

This week I want to chronicle the fact that the swindler has been arrested, has pleaded guilty to a charge of pawning jewelry deposited with him as security by a man who had answered his advertisement offering a position as collector, and for some time at least will be boarded at public expense.

Prof. David B. Scott is supporting Henry George in his candidacy for mayor of New York. David on this occasion poses as an advocate of Labor with a big "L." D'ye mind what the Times says about these gentlemen who sign Georgie's proclamation ?

Trade Talks.

E. R. Solliday, Lambertville, N. J .- While there is nothing particularly new in paper, yet I think there is a better demand. During the past two weeks I know that we have had more inquiries and have made more contracts. The outlook is better and I believe trade is going to be good.

J. A. Kimberly, President of Kimberly & Clark Company, Appleton, Wis .- Yes, I saw what Mr. Harding said in THE JOURNAL two weeks ago, but in connection with that it must be remembered that Mr. Harding is a large stockholder in a company making fibre by the soda process. He, however, stated the fact exactly when he said there was absolutely nothing in the patents covering the bisulphite process. There is nothing. The boiler is the vital point, and as yet the perfect boiler has not been discovered. H. J. Rogers, of Apple-ton, Wis., has just had shipped to him a boiler from Providence, R. I., and he expects to produce fibre about December 1. I met Charles S. Wheelwright in Springfield, Mass., a few days ago and he was telling me of a new boiler, for which a friend of his had taken out a patent. It is of gun-metal, with a lining ot alloy. The lead-lined boiler is of no service. I would rather buy my fibre than make it in a lead-lined boiler, and, in fact, I would not use such a boiler under any circumstances. I started out to work under the American Sulphite Pulp Company patents, but I have given that up. This company is very stiff on its prices and asks a perpetual royalty of 1/4c. per pound. It is inclined to put everything under lock and key, while I feel just the other way. Now, Garrett Schenck and I have been experimenting with a boiler for some time. It is of alloy and has no lining. It has been under severe tests during the past three months under the direction of the ablest chemists we could find, and it has not shown any signs of weakness. Of course the fact that it works satisfactorily in an experimental way is not proof positive that it will do the same in a larger boiler put to practical work. This we are going to ascertain. We have not yet decided where we will erect our plant, two or three points being now under consideration, but it will be located in the East. Yes, there is a new sulphite company formed in New That reminds me that there are some York, with which Mr. Whedon, of Wilkinson

Communications.

In Trouble.

September 37, 1886. To the Editor of The Journal :

Will some experienced paper maker be kind enough to tell me the cause of the wire being tighter on one side of the machine, so that we are compelled to use more weights on the tight side in order to keep the seam from running too far ahead? I am having considerable trouble in this case, and any information would be thankfully received. W. N. P.

A Paper Maker's Night of Terror. NORWICH, Conn., September 29, 1836.

To the Editor of The Journal :

J. M. Bacon, keeper of the light-boat Annie D., which broke away from her station on a dangerous reef off Mystic Island on Sunday night, gives an exciting account of his perilous adventure. In the first place Mr. Bacon is a landsman and a paper maker by trade, having worked for the Hubbard Paper Company, of Norwich, the Holyoke Paper Company, the Valley Paper Company, &c., as an engineer.

On account of wounds received in the late unpleasantness, and not being able to work at paper making, he sought other employment. He is a veteran of the old Eighth Connecticut regiment, and never expected to make a voyage in a blizzard, as both captain and crew of a vessel that had not a stitch of canvas on board, He was the sole occupant of the ship when amid mountainous waves she broke away from her 4.200-pound anchor, and with forty fathoms of extra heavy chain cable drifted across the Latimer Light Reef and brought up three miles distant on Winnepehasset Island. If he had been carried three rods further east he would have been blown out on the Atlantic, with no means of returning, When cast upon the little barren heap of dirt he felt like a modern Robinson Crusoe ; but he was rescued by the Messrs. Wilcox, of Stonington. Mr. Bacon describes his situation during his perilous voyage as terrible, expecting that every minute would be his last; the blow was terrific that night and it is a wonder that his ship lived through the dangerous ex-BULLETIN. perience.

Changes, Removals and New Firms.

William Farr, stationer, Brandon, Man., has sold out.

- Baker Brothers, publishers, Bellevue, Ohio, have sold out.
- Morgan & Morlock, binders, Burlington, Ia., have sold out.
- Richards Brothers, booksellers, &c., Lyons, N. Y., have sold out.
- A. Schneider, bookseller and stationer, San Diego, Cal., has sold out.
- L. O. Hull, publisher of the Gordon Press, Gordon, Neb., has sold out.
- George E. King, publisher of King's Life, Kansas City, Mo., has sold out.
- Martindale & Collison, stationers, &c., Murray, la., have dissolved partnership.
- Smith, Clendennin & Rees, publishers, Springfield, Ill., have dissolved partnership.
- Sill, Nice & Co., newsdealers, &c., Kansas City, Mo., have been succeeded by Sill & John

J. M. Ainslee, bookbinder and job printer, Fort Dodge, Ia., has been succeeded by Ainslee & Willging.

Richardson & Snarr, dealers in stationery, &c., Park City, Utah, have been succeeded by Snarr Brothers & Richardson.

The Lynch Window-Shade Company, Detroit, Mich., has been succeeded by the Ideal Window-Shade Company, with an authorized capital of \$5,000.

The E. & S. May Paper Company has been incorporated, with E. S. May as president, H. B. May, treasurer, and William May, clerk, succeeding the firm of E. & S. May, paper manufacturers, Lee, Mass., which was dissolved by the death of S. S. May.

Failures.

way or the other.

The next thing will be to decree that there sha'n't be any old rags at all. That would be about as sensible as some regulations which have been put in force in the

Well, that Western paper maker who buys bagging, jute rope, jute threads and sich stirred the "boys" up considerably this week. They all wanted to see him. Some did and

months, have followed suit.

apparatus is simple enough, and if efficient will prove valuable.

WE reprint from an English contemporary an article in which it is claimed that costly plants for the production of cellulose are to be done away with. If there is anything to the claims advanced in the article referred to the paper-making world will doubtless hear of it in due season. There seems to be a great deal of promise, which we shall be glad to see equaled in performance. The large economy claimed and the results which it is asserted will be attained make us curious to know how these are to be achieved.

IT is obvious that what the French would call the pièce de résistance in the production of chemical fibre by the acid processes is the boiler or digester in which the wood is treated to the acidustock at the port of New York during the month ended September 30, as reported, were 22,113 bales, a decrease from the cor-

1884

responding month of last year of 1,992 bales, and an increase compared with September, 1884, of 2,904 bales. There was a decrease from last year in rags of 7,108 bales. Manilla stocks show an increase of 531 bales, and old papers a decrease of 696 bales. Wood pulp shows an increase of 5,280 packages. The total figures in each class of stock during the month of September, for the years 1886, 1885 and 1884, are as follows:

	z886.	1885.	1884.
Rags	5.573	12,681	10,883
Old papers	2,086	2,781	3,133
Manilla stocks	7,392	6,861	3,992
Wood pulp	7,062	1,782	1,200
		-	

Totals...... 22,113 24.105 19,209

were as follows : Alexandria, 1,150 bales chine. That struck me as peculiar, and meet-

Another wedding is booked. The oung man has found the young lady, asked her the important question ; heard the affirmative answer; engaged an engraver and the cards will be out next week, and then you will all know all about it. The prospective groom is in the paper business.

An officer of a large paper manufacturing company tells me that the other day he wanted a pulsometer pump, and picking up THE PAPER TRADE JOURNAL his eye lit on an advertisement of a John street company which made such a machine. He at once ordered one, and two days ago it was shipped to his mill. I only mention this as another proof that it pays to advertise.

A professed authority tells me that in the making of strawboards the Fourdrinier The arrivals from the different ports machine is fast driving out the cylinder ma-

which I believe Mr. Whedon discovered on the other side. All of this experimenting and talk about fibre will, I think, bring about a cheapened soda process. In fact, it has done so already to a certain extent, and I know of one manufacturer who tells me, that during the past year he has cheapened the cost of production half a cent per pound. I cannot see why we in this country cannot make the bisulphite fibre as cheap as they do on the other side. Their wood there is very much dearer and yet they can import the stuff here, pay two or three profits on it, duty, &c., and then sell it at the price of rag stock. Is our wood of as good quality? Well, the very car which took the new boiler from Providence out to H. J. Rogers, at Appleton, was loaded with some of our Norway pine and it made as pretty fibre as you ever saw.

The paper trade has been good with us. There has been a good volume of business, but prices have been very low. Prices of stock have been going down constantly also, and the tendency is still in that same direction

Wood & Co., paper dealers, Columbus, Ohio, have been closed up by the sheriff.

Francis Haefner, bookseller and stationer, Buffalo, N. Y., has made an assignme

R. T. Shaw, dealer in wall-paper, &c., Brad ford, Pa., has been closed up by the sheriff. Francis Haefner, dealer in books, pictures, &c., Buffalo, N. Y., has made an assignment. He carried a stock of about \$8,000.

George E. Bitting, dealer in paper-hangings, Philadelphia, Pa., has been sold out by the sheriff. Judgments for \$5,500 were entered against him some time ago

S. R. Walker, David Scott and C. W. Barnes, the committee of creditors in the matter of Frank Tousey, who failed in March, 1885, have just declared a dividend of 10 per cent. on 50 per cent. of the preferred indebtedness.

A. G. Elliot, S. A. Rudolph, I. N. Megargee, Alexander Balfour, E. R. Bulkley and H. E. Smith, the committee of creditors of

THE PAPER TRADE JOURNAL.

Southworth, Bulkley & Co., paper dealers, Philadelphia, Pa., upon examination of the books of the concern find the good assets to be \$39,000 and the liabilities \$40,000. A general meeting of the creditors will be held on Monday next, when the committee will recommend the acceptance of fifty cents on the dollar in five payments, six, nine, twelve, fifteen and eighteen months' time.

C. W. Barnes & Co., paper manufacturers' agents, 21 Park row, New York, are endeavoring to effect a compromise with their merchandise creditors. They propose to pay their New York indebtedness, which amounts to about \$500, and on their other indebtedness for merchandise, which amounts to about \$16, 000, they offer fifty cents on the dollar, twentyfive cents payable in a year and the remainder in two years. Creditors representing 80 per cent. of the amount have already accepted the compromise, and it is expected that the other creditors will do the same. The firm has met with some heavy losses, one of which was \$9,600 in the failure of Frank Tousey.

Fires

The Baptist Witness, De Saul, Fla., was burned out September 27. Loss, \$1,500; no insurance.

E. S. Miner, bookseller and stationer, Necedah, Wis., has been burned out. Loss, \$1,000. partly insured.

E. S. Miner, dealer in books, Necedah, Wis., was burned out on September 21. Loss \$1,000; partly insured.

McCarn & Singfray, publishers of the Bee, Frankfort, Ky., have been damaged by fire. Loss, \$200; fully insured.

Davis Brothers, printers, Philadelphia, Pa. have been burned out. Loss from \$2,000 to \$3,000; insured for \$2,500.

W. A. Reed, stationer, &c., Necedah, Wis. has been burned out. Loss, \$4,000, of which \$3,000 was covered by insurance.

W. W. Wilcox, dealer in paper and printing supplies, Chicago, Ill., had his stock damaged by fire on September 30.

The Longview Printing Company, publisher of the Clarion, Longview, Tex., has been burned out. Loss, \$1,250; no insurance.

Fire in the stock-house of the Fall Mountain Paper Company, Bellows Falls, Me., on September 25, damaged the building and stock to the extent of about \$25,000. The machinery was but slightly damaged. It was insured in the Manufacturers' Mutual Insurance Company of New England.

Fire broke out in the sixth story of Cohen & Leiser's publishing house, No. 92 Longworth street, Cincinnati, Ohio, September 28. It was confined to the sixth floor and was extinguished with slight loss. There were valuable cuts and other property, however, which suffered by water to the extent, probably, of \$15,-000 ; insurance ample.

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[In the appended list R. signifies a renewal existing mortgage; B. S., bill of sale; and Res gage on real escate.] NEW YORK CITY.	al, a mort-
Mortgagor.	Amount.
Brody & Cheheimer	\$300
J. F. Dolan (B. S.)	250
Freund & Stein (R.)	100
J. A. Maas	3,000
EASTERN STATES.	
George W. Washburn, Boston, Mass	300
W. H. Wheeler, Boston, Mass	800
Charles E. Smith, Woburn, Mass	250
The New Ers Company, Springfield, Mass. (p	ur-
chase-money)	···· 1,500
MIDDLE STATES.	
Fosnot & Burr, Watsontown, Pa	450
The Photo-gravure Company, Brooklyn, N.	V 1,850
WESTERN STATES.	
Hatton-Snowden Company, Chicago, Ill	15,000
J. C. Ruskstahl, Cincinnati, Ohio (R.)	
The Corbett & Skidmore Company, Milwaul	
Wie	

Wannamaker & Marshall, Indianapolis, Ind. (R.)

SOUTHERN STATES. G. P. M. Turner, Memphis, Tenn.....

LIENS RELEASED. Anton Bicker, Cincinnati, Ohio (Real).... New York, who succeeded Watson, Sumner & Co., in March last, continue to carry on the old business as before, retaining the agency for Whitehead's justly celebrated felts and jacketings and Curtin's ultramarine. They also continue the sale of their extra-heavy canvas dryers, bleaching powder, soda ash and paper stock.

Further subscriptions to the Charleston fund have been made through the Stationers' Board of Trade as follows : George Routledge & Sons \$50 ; L. Pattberg & Brothers, \$25 ; F. Beck & Co., \$50; Valley Paper Company, \$15, and White, Stokes & Allen, \$10. The Charleston committee appointed by the board, being four stationers in that city, has turned over the \$1,000 sent to it to the regular relief committee of the city.

SPECIAL NOTICES.

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

P. HART & CO.

WHOLESALE DEALERS AND FACEERS OF Rags, Paper Stock, Metals and Rubber, 134 AND 135 JANE STREET, NEW YORK. EUGENE SULLIVAN. Stock

Packer of Rage and Paper St. 356 & 255, Wares Street, New York. THOS. BUTLER & CO., gs, Paper Stock, Old Metals, Rubber,

Rags, Paper Stock, Old M. Boston, Mass. 249-255 Causeway St., Boston, Mass.

FRANK B. GRAVES, Rags, Paper Stock, Waste, Rubber, &c., 187 RIVER STREET, TROY, N. Y.

CARPENTER & BARTLETT, Cotton and Woolen Rags, Paper Stock, Old Metals and Rubber,

No. 190 FRONT PAREET, HARTFORD, CONN. JAMES SAVAGE, JR.

Rags, Paper Stock, Rubber, &c., &c., 530 To 536 West Sors St., New York.

MORE & IRVINE, Paper Stock, Rubber, &c., &c., 8, 61, 61 AND 65 GOERCE ST., NEW YORK Rags,

Market Review.

OFFICE OF THE PAPER TRADE JOURNAL, (FRIDAV, October 1, 1886. (THE MONEY MARKET .- Speculation in the stock market has been irregular and less active. Prices have weakened, and almost every active share shows a decline. The local money market was somewhat more active. Call loans ruled 5@10 per cent., the higher figures prevailing temporarily toward the close. Mercantile paper is quoted as follows

1		NEEV	Four
1	Double-named-	lays.	months.
1	First-class	606	5%@ 6
1	Good		6 @ 7
	Single-named— First-class		5 00 7
1	Not so well known	010	010
	Sterling has been quiet and	steady an	nd with-
-	out special feature. Posted		
1	\$4.83 for sixty days' and \$	1.86 for d	emand.
1	Rates for actual business w	vere as f	ollows :
	Sixty days' sight, \$4.82@4	.82 1/2 ; d	emand,
	\$4.843/@4.851/2 ; cables, \$4.8	5 5 004.86	: com-
	mercial, \$4.80%@4.80%		
1			
	were quoted as follows:		
	and 5.21 %; reichsmarks,	95¾ and	96 14 :
	guilders, 401/8 and 403/	. Gove	rnment
	bonds, especially 4's, were st	rong. R	eported

sales were \$17,000, 4's, coupon, 1907, at 12834c., seller three ; \$2,000, 4's, registered, 1907, at 1285%c., and \$20,000, 41/2's, coupon, 1891, at 1121/2c. Railroad bonds were quiet and occasionally lower.

THE PAPER MARKET .- The closing week has not been a particularly active one in the paper market, and while the month opened with a very fair volume of business, the last half has not been as encouraging. The mills running on prime qualities of the various grades are supplied with orders in a very satisfactory way, and warehouses find that there is a steady call for these goods at steady prices, while inferior goods have to be shaded as to price in order to meet with sale. As a rule there are very few fluctuations in prices, and certainly none of the fluctuations carry the rates higher. Writings are moving in a fair way, and prices are steadily held for standard makes. Book is in very

in very fair shape and prices are held quite firm. Poplar is quoted at 134@176c., and Spruce 2@2¼c. delivered. Foreign grades are quoted ex-dock: 50 per cent. Wet at 1.56c.; Dry, at 13/c., and Brown Boiled at 1%c. Imports for the week aggregate 4.111 bales, being 49 bales from Antwerp and 4,062 bales from Stettin.

WOOD FIBRE .- Chemical Fibre is in good demand and prices are as before. The combination prices are held firmly, but "cuts" are being made by outsiders. We quote: Bleached at 3%c. and Unbleached. 3¼c. Foreign grades are still quoted : Unbleached Pine, soda process, 30 3.50c.; Bleached, same process, 3%@4%c.; Unbleached, sulphite process, 33/8@4c., and Bleached, 4%@6%c.; Bleached Straw Pulp, 4%@5%c

FOREIGN RAGS AND PAPER STOCK. -Some importers and dealers report an improved demand, and as a whole the past month has shown a very fair business. There is very little snap to business, however, buyers mostly pursuing the hand-to-mouth policy and expending a great deal of their energy in beating down prices. The margin of profit in importing is said to be very small, and this, with a not over-active demand, is somewhat discouraging. Some old lots of stock have been moved this week, including some blue linens which have been in store for a year and a half. The China rags, which have been in the market for some time, were this week sold at 14c. Paper stock is quiet, and prices are generally unchanged. Imports for the week aggregate 7,018 bales, including 547 bs. rags, 326 bs. old papers, 4,111 bs. wood pulp and 2,034 bs. manillas. Ports of shipment and quantities are: Antwerp, 49 bs. wood pulp; Dundee, 196 bs. old papers, 413 bs. manillas; Glasgow, 19 bs. rags; Hamburg, 65 bs. rags, 98 bs. manillas ; Hull, 109 bs. manillas ; Liverpool, 18 bs. rags, 165 bs. manillas ; London, 348 bs. rags, 130 bs. old papers, 681 bs. manillas Marseilles, 116 bs. manillas ; Nagasaki, 6 bs. rags; Stettin, 91 bs. rags, 4.062 bs. wood pulp and 452 bs. manillas.

DOMESTIC RAGS .- The week has been a quiet one in the domestic rag market, as the closing week usually is. Prices rule as before. No. I City Whites ranging 3%@3.90c. and No. 1 City Whites at 14/@2c.

BAGGING, &c .-- The demand for Bagging is light, and for the most part is for small lots. Importers are quoting 1%c. for No. 1 Manchester for shipment. We hear of sale on spot of 100 tons at 1.60c., and an offer of 300 tons at 1.57 %c. We also hear of sale of 40 tons Woolsacks at 1.70c. Jute Ropes have been moving to some extent, and we note sale of 50 tons Dundee at 2.10c. Jute Threads have been moving to some extent, with Dundees held at 2 1-16@25c., there being sales of several hundred tons within the range. Manilla imports for the week aggregate 2,034 bales, ports of shipment and quantities being : Dundee, 413 bales; Hamburg, 98 bales; Hull. 109 bales ; Liverpool, 165 bales ; London, 681 bales ; Marseilles, 116 bales ; Stettin, 452 bales.

OLD PAPERS .- The Old Paper market is quiet. Some dealers claim they are promptly shipping all the Hard Shavings they can get at prices within our quotations, but as a rule this grade is quiet. Low grades are moving fairly and prices are steady. We quote : No. I Hard White Shavings, 3%@4c.; No. I Soft White do., 21/2c. ; Old Ledgers, 25/2c.; Solid Printed Books, 1%@2c.; Mixed Shavings, 134@2c.; No. I Manillas, 156c.; Light Book Stock, 1@1%c.; Folded News, 1@1%c.; Commons, 60@65c.; Bogus Manillas, 60@65c.; Strawboard Clippings, 65c.; Binders' do., 65c.

STRAW.-There is a fair business in the straw market and prices are steadily held. We quote : No. I Rye at 60@65c.; Short Rye at 50@55c., and Oat at 35@40c.

ROSINS .- The market is quiet, sales being limited to small lots. Prices on medium grades have hardened somewhat. Otherwise values fair demand, but prices are not over strong, are unchanged. We quote in lots from the there being a tendency to make concessions yard : Common to Good Strained, \$1.25@1.30;

WOOD PULP .- Ground Wood is moving stocks are light the position generally certainly appears a strong one. There is a good inquiry to-day from America, £7 5@£7 105. being the prices now asked for hardwood, f. o. b. Liverpool for prompt, £6 15s.@£7 or the rails being the figure for softwood, with very little at the lower figure. From Newcastle we hear of a strong market at £6 155. net for softwood, with stocks reported very low For forward it is difficult to get quota tions; £7 108.@£8, f. o. b., Liverpool for hardwood is quoted over 1887." Ever with free arrivals there is only a ligh stock of Caustic Soda Ash, 48 per cent. fair trade has been in progress at former prices, with a slight advance for specia brands. While high-test Caustic Soda has come to hand freely the bulk of arrivals has been controlled by contracts, and stocks for prompt delivery have not been augmented to any extent. There has been an improved de mand for shipment for this and the succeed ing month, prices ruling as last week. Eng lish Sal Soda is again becoming scarce, an prices have hardened slightly, sales havin been made within the range of 871/2@000 Alum is in the usual consumptive demand, an prices are firmly held at former quotations Sales and quotations are : 500 cks. Bleach ing Powders, spot and to arrive, at 1.8 @1.871/c.; 300 tons Soda Ash, 48 per cent spot and to arrive, 1.37 1/c.; 350 drums Caust Soda, 70 per cent., at 2.55c.; 100 tons S Soda, spot, at goc.; 300 bbls. Lump Alus at 1 %c.; 500 bbls. Ground do. at 1 %c.; 20 ck Yellow Prussiate of Potash at Igc.; 1.000 bbl Aluminous Cake at 1.40c.; 1,500 bbls. Pea Alum, 23/2@21/2c.; 5,000 bbls. Natrona at 23/2 21/2c.; 30 cks. Ultramarine, at 171/2c.; 20 ck Bichromate at 10 %c.; 100 cks. alkali at 1%c 50 bbls. Venetian Red at 1.45c.

CHINA CLAY .- English has been mo active during the past week. Sales aggrega ing 450 tons of prime medium grades we made at \$13.50@14 per ton, also 225 tons superfine grades at prices ranging from \$16 17.50 per ton as to quantity and holde Southern clay has not been very active a is quoted at \$10.50@11 per ton ex-dock.

COAL -- Anthracite is in good trade a buyers are anxious to get supplies forwar Saward's Coal Trade Journal says : T Philadelphia exchanges have advanced th line trade prices fifteen cents per ton, b plenty of coal can be had at old prices, a even the new rates are not up to those of year ago. Schuylkill white ash at Schuylk Haven-Lump and Steamboat, \$2.50 ; Brok Egg and Chestnut, \$2.75 ; Stove and Sm Stove, \$3 ; Pea No. 1, \$1.35 ; Buckwheat, 7! Buffalo clearances have been fair, but coal scarce at this point of loading ; shippers ha offered and paid 90c. to Chicago, but vess owners want the even dollar. Chicago repo an excellent demand for Anthracite, a possi increase in the quantity to be required for t season's supply above expectations, and a ge erally steady tone to the market. Deliver are delayed by reason of temporary scarcity cars. Soft coal is active and there is said be more demand than can be supplied, it prices are without any particular change as at any point."

DIAMONDS

BANDEL, BAREMORE & BILLINGS.

MANUFACTURERS OF DIAMOND JEWELRY

NEW YORK

PRICES CURRENT

48 NASSAU ST. AND 29 MAIDEN LANE,

1 ST. ANDREWS STREET, LONDON.

NEW YORK MARKET.

Paper Market.

Ledger and Record Flat Caps, superfines..... Flat Caps, fines..... Flat Caps, engine-sized... Blotting, American. Blotting, English......

SELLING PRICE

81.08....

16 13 9

IMPORTERS AND CUTTERS OF DIAMON

r-	and the second	the second s
	Straw Wrapping, basis, 15 × 20, 151/2 lbs.	-
a l	ao sheets	
s.	30 × 40, from 30 to 34 lbs. W rm	70 0 -
1,	20 × 32, from 24 to 26 lbs. # rm	36 @ 52
n	16 x 22, from 12 to 13 lbs. # rm	30 (C) 36 30 (C) 32
s-	15 x 20, 10 lbs. 9 rm.	
et	16 × 22, irom 12 to 13 ios. ¥ rm	15 11 16
v.	12 × 16	- 10 X5
a-	Straw Wrapping, # 10., neavy weight. I Straw Wrapping, # 1b., light weight	2%6 2%
1,	boxes, 30 books to the box, 200 sheets	100
n	If x 15. Straw Wrapping, # lb., heavy weight. Straw Wrapping, # lb., light weight Cigarette Straw Tissue, per case of roo boxes, sp books to the box, 200 sheets to the book	.00 @ 35.00
ht A	12 × 18	20 0 21 28 0 30
er	14 × 10. Card Middles, ground wood. Card Middles, long fibre wood Card Middles, rag and wood Wood Fibre, bleached. Wood Fibre, unbleached. Woolen Rass.	5%@ 6% 8%@ 9%
al	Wood Fibre, bleached	6 @ <u>7</u>
as	Wood Fibre, unbleached	3%@
as	Comforter Stock. White Woolens.	8 @ 9
or	Blue Gray Stockings.	9 6 10 7 6 8
to e-	Blue Gray Stockings	15 (03, 10)
d-	Blue Flannels. Reds, old. Reds, new Shirt Clippings Mixed Softs, free of Carpets. Seamed Cloth. Skirted Cloth. New Cloth Clips. New Satinets, clean stock Statinets, old. Seams. Delaines, stripped for extract. Blankets, Woolen. Wool Carpets. Mixed Carpets. Mixed Linseys. Mixed Linseys.	7% 5
g-	Mixed Softs, free of Carpets Seamed Cloth	6 @ 7 3½@ 3¥
nd	Skirted Cloth New Cloth Clips	2 0 2%
ng	New Satinets, clean stock Satinets, old	1%@ 2%
nd	Seams. Delaines, stripped for extract	
15.	Blankets, Woolen Wool Carpets	2%@ 2%
:h-	Mixed Carpets	1 @ 1%
85	Mixed Linsevs.	1%@
t.,	Shavings and Old Pape White Collar Cuttings	2%@ 3
tic	Shavings and Old Pape White Collar Cuttings. Hard White Shavings, No. 1. Soft White Shavings, No. 2. Mixed Shavings, part white Ledger and Writing. Solid Stock. Book Stock. Book Stock, No. 1. light. Old Newspapers. Imperfections. Colored Papers. Manillas, No. 1. Bogus Manillas. Commons. Binders' Board Cuttings.	4 0 -
Sal	Soft White Shavings, No. 2. Mixed Shavings, part white	246 2%
ks.	Ledger and Writing	2510 234
ls.	Book Stock, No. 1, light	1 @
arl	Imperfections	1%@
6@	Manillas, No. 1	2 0 2% 1%0 1%
ks.	Bogus Manillas.	60 0 65 60 0 65
c.;	Binders' Board Cuttings	65 G
	Straw Board Cuttings	ño @ 65
ore	White Shirt Cuttings, No. 1	6%@ 6%
at-	Mill Assorted Whites Unbleached Muslins	5 @ 5% 5%@ 5%
of	City Whites, No. 1 New Seconds, light	3.90 0 4
60	New Seconds, dark No. 2, Whites	3 @ 314 134@ =
ler.	Cotton Canvas, No. r	4 0 4%
Ind	Country White Rags	
	Seconds (City).	1 0 1/1
Ind	Manilla Rope	- 0 2%
rd. The	Gunny Bagging, No. 1	- @ I.70
the	Burlap Bagging, No. 1	13/0 1% 17/0 3
but	Tar Shakings	3%0
and	Jute Waste	
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	New Cuttings, cotton	3 00 32 140 %
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Smyrna Rags

Russian Rags.

479

ook, super-sized and calendered. ook, super-sized and tinted. ook, extra machine finish. ook, machine finish, low grade. ook, No. 1, shavinga & imperfecti ook, macunakook, No. 1, sha Alexandria Rags. in order to effect transactions. News is gen- E, \$1.55; F, \$1.70; G, \$1.80; H, \$1.85; I, · 5% Whi 5% Blue 6% Cold erally quiet, but some of the mills report an .95: K. \$2.50; M, \$3; N, \$3.30, and 455776554379804598000 Blues. Colors W G, \$3.55. General Notes. increased demand, although there is no stif-Poster Hanging, superfine, No. 1... Hanging, superfine, No. 8... Hanging, machine satin Hanging, white blank, No. 1 fening of price. Manillas are as before as to Whites and Slues CHEMICALS .- The Chemical market has 754 Grant M. Walrad has been appointed relocal demand and prices. Some mills report been quiet during the past week, but has Mixed Hanging, winter Hanging, curtain... Hanging, buff..... Hanging, brown... Hanging, brown... ceiver of the Morning Star Publishing Comorders well ahead. Straw Boards have had a 51/2 shown a good degree of strength, with a harpany, Indianapolis, Ind. Japanese Raga quiet week, but rates are maintained. The dening tendency in almost all quarters. Bleach The Puritan Color Company, Bethlehem, directors of the Union Straw Board Company has been fairly active and firm. Arrivals have Pa., manufactures all shades of colors, dry and will hold a quarterly meeting October 12. been limited and holders have maintained in paste, for the use of paper makers, paper Straw Wappings have also been quiet this .10 .40 85 .30 10 values, higher figures being asked for special stainers, &c. This company invites attention F F, No. 2 Lines F G. No. 3 Linens F F, No. 4 Linens, L F X, No. 5 Line L F B, Blue Lines week, although the export distribution has brands. Pilkington's circular says : "Bleachrean ek, cream. Kope, unbleached N. Kope, unbleached N. Manillas, No. t, lught weight. Manillas, No. t. Mani to its products, and will quote prices on apwidened somewhat, and a better tone is prevaing powder opened quietly after the exciteplication. lent in the market. Fancy papers are active, ment of last week, the high prices generally I. H. Sheperd & Co., King's Creek, Ohio, Chemicals, Coloring Materials, an and makers are busy at the factories. asked having checked business. To-day, Alkali, 58 ¥ cent... Alum, lump..... Alum, ground.... Alum, Diamond.... are going to put in a new single cylinder, ten-JUTE BUTTS .- The Jute Butt market has however, there is an improved inquiry and 10 dryer 68-inch machine to run on straw wrap-5 00 een quiet. Holders have been asking 21/200 the market is strong, it having been decided Aum, Diamond Alum, pearl. Alum, porous. Aluminous Cake. Anti-Chlorine Bi-Chromate Potash, Am Bieaching Powders, spot Caustic Soda, 70 % cent. Clay. China Powders. ping. They have placed their order with the 30 2%c. for high-grade Bagging Butts and 1.60 at the annual meeting of the trade yesterday to 75 00 7 00 5 00 50.00 00 45.00 00 42.50 00 40.00 Black & Clawson Company, Hamilton, Ohio. 80 10 8 6 @156c. for Paper Butts on spot. Futures are continue the association to the end of 1887, An advertiser familiar with the paper and firmly held at 15601 11-16c., owing to the while the unanimous feeling of makers was paper-stock business is looking for a position that, considering the present low price of alkahigher value of silver and enhanced cost of lies, the price of bleaching powder should in as a salesman or assistant in a manufacturing exchange. Sales aggregate 1,500 bales within house. Parties wanting an experienced man The Jute crop is reported to be the future be kept at £7 108. @£8, f. o. b., Livthe range. are asked to consult the advertisement in good and larger than last year, the out-turn of erpool, for hardwood. The committee, with another column. as to the curtailment of production, and as Straw Butts being estimated at 450,000 bales at this end in view, were given increased powers ards, air-dried, Penn, @ ton...37.50 bards, air-dried, State, @ ton...37.50 633 Copperas, Am Extract Logw Charles P. Sumner & Co., 74 Broad street, least.

THE PAPER TRADE JOURNAL.

Mineral Fibrous Pulp	15.00	a	-
Orange Mineral		a	83
Potato Starch	-	Q	3)
Prussian Blue, dry	#8	10	45
Prussiate Potash, American	-	G.	10
Rosins, common to good strained, W bbl.	1.25	0	1.30
Rosins, E, W bbl		0	1.55
Rosins, F, @ bbl		@	1.70
Rosins, G, @ bbl		100	1.80
Rosins, H, W bbl		04	1.85
Rosins, I, W bbl		100	1.95
Rosins, K, W bbl	-	0	2.50
Rosins, M, @ bbl		100	3.00
Rosins, N, P bbl			3.30
Rosins, W G, W bbl		a	3.55
Sal Soda, English		63	.90
Soda Ash, caustic, 48 9 cent	1.35	100	1.
Soluble Blue	50	0	55
Spanish Brown	3	60	1
Sugar Lead, white		66	12
Sugar Lead, brown		60	
Sulphuric Acid, 66 @ cent	13	60	
Ultramarine, blue, German	-	0	17
Venetian Red	-	0	1.45
Vitriol, blue		C	5
Yellow Ochre, Rochelle	8.37%	0	1.45

480

BOSTON MARKET.

Paper Stock.

Mill Assorted Whites	51/200
Cotton Canvas	43/400
Cotton Canvas, No. 2	3%@
Gunny Bagging.	13400
Gunny Bagging, No. 2	11/0
Shivey Bagging	1760 .
Waste Woolens	340
	13200
White Collar Cuttings	3 68
White Envelope Cuttings	37603
Hard White Shavings, No. 1	350
Soft White Shavings, No. 1	31/800
White Shirt Cuttings	63/0
Country White Rags	5 0
Country Mixed Rags	21/0
City Whites, No. a	4%@
Seconds, Country	3%@
White Shavings, No. 2	21/200
Mixed Shavings (3/ white)	= @
Imperfections	1 @
Book Stocks	20
Light Prints	I @
Manilla Papers, old	21/200
Hardware and Manillas	\$10.000
Straw Board Cuttings	\$12.000
Linen Canvas	45%@
Coiors	13400
Manilla Rope. Binders' or Tar Board Cuttings	2%0
Binders' or Tar Board Cuttings	1%@
Common Papers	-0
Oakum Junk	2340
Hemp Rope, Tarred	23400
Rigging	3%@

3======

236

New rapers.		
Superfine Book	8 6	83
Fine Book	7 0	73
News, rag and wood	5%@	6
News, straw	5%@	. 6
News, No. 1, all rag	6%@	7
Manilla, Cream Rope	10 0	II
Manilla, No. 1, Rope	9%@	10
Manilla, Extra Jute	6%	7.
Manilla, Jute and Gunny	6%@	65
Manilla, No. 2	5 0	5.5
Manilla, Bogus	4.0	5
Hardware, No. 1, tarred	7%@	85
Hardware, No. s	7 0	8
Hardware, red	5 @.	6
Straw Boards, air-dried, W ton	0.00 0.60	00.0
Straw Boards, steam-dried, 9 ton 30	0.00 @40	00.0
Straw Wrapping, heavy	0 00.1	23
Straw Wrapping, light	2%@	= 31
Binders' Boards, # ton	1.00 @60	00.0
Leather Board, Common, W Ib	3 @	4
Leather Board, counter	5 0	8
Leather Board, extra	8 0	10
Tar Boards, P ton	0.000110	00.0

English Rags, &c	la la
Essex Fines	0
London Fines, cotton	. 41/100
Outshots, cotton	340
Seconds	0
Seconds, extra	
Thirds	
New Print Tabs	3%0
Checks and Blues	
Light Prints.	2 0
Light Fustians	240
Dark Fustians	13/0
Black Calicoes	140
Gunny Bagging, No. 1	13/0
Gunny Bagging, No. a	140
Mixed Bagging	140
Rope Manilla	2760
Rope Manilla, tarred	
Jute Ropes	2 6
Jute Threads.	240
English Old Papers and	Shavings.
Hard Shavings, No. 1	
Soft Shavings No. r	2760
Soft Shavings, No. 1. White and Colored Shavings, No. 1	240
White and Colored Shavings, No. 2	1760
Cream Post Shavings	340
Paper Collar Cuttings	346
I advert	3740
Ledgers. Vewspapers and Pamphlets, extra	120
Old Newspapers and Pamphlets	140
Broken News and Letters	1720
New Books, solid folios.	340
Old Blank-Books.	
Old Drinted Basics	
Old Printed Books White and Buff Railway Sheets	=1/60
Pailway Tickets	. 2780

Leghorn Rags.
P P, No. 1 Linens
5 S, No. 2 Linens
TT, No. 3 Linens
P, No. 1 Cottons
S, No. 2 Cottons
Alexandria Rags.
Whites
Blues
Colors
Constantinople Rags.
Whites, No. 1
Whites, No. 2
Whites, No. 3
Blues
Reds
Smyrna Baga

Chomicals.	
Alkali, 36 @ cent	1.55
Aluminous Cake, currency	E 1/4
Alum, American ground	
Alum, American lump	13/1
Anti-Chlorine	3
Bi-Chromate Potash, American	
Bleaching Powders	15/
Blackley Blue.	2.00
Caustic Soda, 70 W cent. (for 60 W cent.)	2.57%

Print papers	60 @	-
Straw papers	40 60	50
White shavings	23/200	2
Mixed shavings	11/0	1
Paper.	- /4 00	
Plate	13 63	84
Super-Calendered, white and tisted	7%@	- 72
Fine book, white and tinted.	63400	~ ~ ~ ~
No. 2 Book.	61/6	
Colored Glazed Mediums	840	1
Rag News No. 1	6 63	-
Ordinary Rag News	- 6	3
Straw and Wood News	4%@	
Bleached Manilla, No. 1		
Ordinary Manilla	7 8	
Bogus Manilla.		
Straw Wrapping	1.500	
Hadward Wrapping	1.3000	
Hardware Wrapping Tissue Manilla, 24 × 36, full count		
Tissue, white, 20 × 30	No MA	a
Tea Papers, 14 × 20.	6 0	
Tea Papers, 13 × 18	6 10	-
	6%@	
Tea Papers, 12 × 16 Straw Boards, air-dried, 12 ton		
		15 - 50
Straw Boards, steam-dried, # ton40 Wood Pulp Card middles	61/0	2.5
wood Fulb Card midules	0.28/00	

Advertisements.

50 23/4 11/2

75

6%

43%

with

Two Pulleys.

SITUATION WANTED-BY A FIRST-CLASS machine-tender: a temperate, steady, married man of many years' experience: permanent position. Address L. P. K., care of Paper Trade Journal. 156

WANTED-A SITUATION AS MACHINE-TEN-dor; nineteen years' experience; can give first-class references. Please address J. D., care of Paper Trade Journal. 1 1/4 3%

WANTED-SITUATION AS FOREMAN IN Book or News Mill. Have had large experi-ence in Book, News and Flats, both East and West; cas give all references required. Address PAPER MAKER, care of Paper Trade Journal. 5%

WANTED-A SITUATION BY A THOROUGH-ly competent and reliable man as salesman, or assistant with a manufacturing house preferred. Understands every detail of the paper and stock bus-iness, and has a large acquaintance. Address "EX-PERIENCE," ware of Paper Trade Journal.

WANTED-SITUATION AS FOURDRINIER Machine Tender on Book or News; the best of references furnished as to capabilities and steady habits. Address E. D., care of Paper Trade Journal. 15.00 31%

DAPER-MILL PLANT FOR SALE-MILL IN stam power; three engines; one 48-inch cylinder machine, and all other necessary machinery. The class of paper manufactured has a good reputation in the market, and mill has orders for all it can make. Stock house, two houses, one barn, and four acres land; located in piesant village. The owner for good reasons wishes to change his place of resi-dence and will sell property at a bargain. Address F. H., care of the Paper Trade Journal, New York. 334

MANAGER-WANTED A RELIABLE, THOR-oughly competent manager to take entire charge of a new two-ton mill near New York. Must know all there is about "all pure rope manilla," and "part rope and part jute manillas." Send samples, also age, when and where employed, salary, refer-ences, and other details to "Part Rope and all Rope Manillas," care of the Paper Trade Journal.

FOR SALE - ONE 56 - INCH RIGHT - HAND, Leffel Wheel, cheap ; good as new. FRIEND & FORGY PAPER CO.,

Franklin, Ohio PAPER MILL TO LET, FOR EXPERIMENTS. Short or long term. JOHN S. DAVENPORT, 16 Wall Street, N. Y.

The paper mill plant of the provided in a large Western city; has established business; buildings and ma-chinery almost new; superior advantages esable cheap production; owner will sell, rent or retain an interest with good and practical parties; as excellent chance for right parties; only those that mean business and have means, address with full name, former connections and reference. PAREM MILL PLANT, Care of Paper Trade Journal.

Categori Pager Parker States, and the state of the second state of

WANTED.

mill making six tons per day. No one need apply unless he can give unquestioned recommendations

Making. A second-hand copy for sale.



Manufactured by BOGGS & CLARKE

and

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Obituary.

CHARLES D. ROBINSON.

Col. Charles D. Robinson died at his home, Green Bay, Wis., September 25. He was born in Marcellus, N. Y., October 22, 1812. Left an orphan early in life, he was thrown upon his own resources, and after working as a clerk in several houses he learned the printing trade in Buffalo. He remained in Buffalo until master of his trade, and then established himself at Green Bay, Wis., where, with his younger brother, he issued the first number of the Advocate in 1846. He served during the war with the Army of the Potomac, where much of his time was spent in superintending the construction of bridges. After the war he visited Europe and wrote a series of letters which were much admired. During his residence in Green Bay he served in the Legis lature, was Secretary of State in 1852-3, mayor of the city for two terms, and filled other offices of honor and trust.

CHARLER G. GREENE.

Col. Charles Gordon Greene, the founder of the Boston Post, died in Boston on Monday morning last, aged eighty-two years. He was a native of Boscawen, N. H., where he was born July 1, 1804. He was educated at the Bradford Academy, and afterward entered the office of the Essex Patriot, which was published at Haverhill, Mass., by his elder brother. In 1822 he went to Boston and took a position on the Statesman, which was founded by his brother in 1821. In 1825 he took charge of the Taunton Free Press, but a year later he returned to Boston, and after conducting the Spectator for a while resumed his position on the Statesman. He next become one of the editors of Duff Green's paper, the United States Telegraph, at Philadelphia, but in 1829 he returned to Boston and became one of the proprietors of the Statesman. On November 9, 1831, he issued the first number of the Boston Morning Post. He was naval officer for the port of Boston under Presidents Pierce and Buchanan, and was at one time a member of the Massachusetts Legislature. He was an active, energetic man, public spirited, devoted to the growth and prosperity of Boston, while his ability as an editor placed him in the foremost rank.

Francis Scheu, publisher of the Free Press, Wilmington, Del., is dead.

P. E. Dougherty, of the firm of P. E. Dougherty & Co., printers, San Francisco, Cal., is dead.

In Town.

C. S. Wheelwright, Providence, R. I.; E. R Solliday, Lambertville, N. J.; T. S. Safford, Camden, N. J.; S. D. Beach, Seymour, Conn.; C. A. Brown, Angelica, N. Y.; H. M. Knowles, Boston, Mass.; J. L. Hobson, Berlin Falls, N. H.; J. A. Kimberly, Appleton, Wis.; J. N. Mohr, Philadelphia, Pa.; George E. Dorr, Middle Falls, N. Y.; Charles Campbell, Short Hills, N. J.; A. C. Hastings, Rochester, N. Y.; Z. M. Crane, Dalton, Mass.; Oscar Greenleaf, R. N. Fairfield, E. C. Weiser, Edward Dickinson, Holyoke, Mass.; T. A. Mole, Adams, Mass.; Z. Crane, Jr., Dalton, Mass.; J. A. Crane, Westfield, Mass.; John Verran, Lee, Mass.; Moses Newton, Holyoke, Mass.; H. Faxon Atherton and Mr. French, Boston, Mass.; E. B. Ripley, Unionville. Conn.; Noah Phelps and T. H. Taylor, Merritton, Ontario; Thomas Duncan, Hartford, Conn.; Alex. Robertson, New London, Conn.

The Blessings of Free Trade.

Great Britain poses before the world as the highest example of the beneficence of free trade, and proclaims this economic principle as the cornerstone of her industrial growth and commercial importance. Under certain conditions, with no elements of successful competition to contend with, this theory of unrestricted commerce works very well and to the great advantage of those who practise it. With raw material untaxed and the world's markets exclusively under control for the return of the manufactured products, the oneable to command the market for raw material and send it back converted, without let or hindrance, she can, with little or no difficulty, command the markets of other countries and hold dominion over industrial activity, no matter in what part of the globe it may attempt to assert itself. It is idle for anyone to deny that England's greatest interest centres in herself and her own importance. She may proclaim the blessings of free trade, and urge its advantages upon other countries, but this is done with the sole purpose of promoting her own interests. There can be no logic to an assertion that in this principle she is anxious to promote the industrial and commercial welfare of other people. except to the extent that by so doing she may acquire compensating and preponderating benefit

sidered, entirely disposes of the pretense that free trade is the integrity of commercial dealing. On some articles her tariff is excessive. in cases rising to 1,500 per cent., a fact sedulously concealed by those Anglomaniacs who

labor zealously in behalf of free trade. Time was when the importance of wealth, the control of trade and the empire of industry centred within the United Kingdom, and Britain was mistress of the world in the arts of peace. But times and manners have changed. Free thought and free expression have overcome the influence of free trade. and under the impulse of inventive skill, energy and the necessities of development the people of other countries have not hesitated to act for themselves, seeking to divest them selves of the burden of paying tribute to another for the manufacture of goods for which they supply the material. The counterpoise has been in the shape of protection, which has given nascent industries a chance to grow without being overridden by the imperious onslaught of long-vested privilege. What is the result?

To-day countries whose markets were once absolutely under the control of England have become independent, and not only this, they have become aggressive, carrying the conflict directly home to British manufacturers and producers. The history of the past few years shows that the tradition of carrying "coals to Newcastle" has become a reality. English industries have languished and are depressed. In some instances they have become extinct, and complaint is frequent that the competition of foreign manufacturers has not only operated to the detriment of English interests in foreign markets, but has been oppressive at There is doubtless much difference of opinion in England as to the beneficence of free trade. This difference seems to be growing, and is constantly becoming more apparent. Ten years ago the expression of this opinion would have been scouted. Many instances can be cited to show that English manufacturers are not so impressed with the blessings which free trade confers upon them. This is shown in their communications to various journals, of which the following will suffice for an example. A manufacturer writing to the London Telegraph says :

Sim-I wish to record my experience as a sufferer from "Buying Gooda Abroad." My father and his family for generations have gained their livelihood bit the manufacture of glassware for domestic use. not of high quality, but suited for the million. At the time high quality, but suited for the million. At the time the duty was taken off glass his particular branch was cut wine-glasses, at from 215. to 305. per gross, and he employed on this work a goodly number of hands. The Bohemian makers soon began to flood the market, copying minutely the English patterns and shapes. The guiness per gross article was brought down to 187., and lates are seen in the max interview for the English and later to 152, until it was impossible for the Eng-lishman is complete. As years have passed by, and inding no opposition in the market owing to the makers of this class of work having no longer the trained hands at command, the price has gradually increased, until to-day it stands 50 fer cent. num for German cut wines than English was sold for before free trade was in expirence. No doubt the German middlemen who act us agents get the benefit, and are prepared to adopt the same tactics to run English wares out of the field should they become rivals again. Finding his occupation gone in one branch, my father took up another, viz., cut cruet glasses, with the same result. Not only Germany and Austria, but Scandinavia supplies a great number of the cheap cut glass cruet-bottles in the market to-day. Again my father took up a further branch of the glass trade, and altered his tools to suit cut and ornamental gas and lamp globes. For some years the Continentals could not see their way to tackle years the Continentian could not see their way to facture these goods, owing to their fragile nature and bulk; but this they have surmounded, and for the past ten years two-thirds, or probably three-fourths, of the lamp and gas globes used throughout the British Em-pire are sent from abroad, and occupation for thoupire are sent from abroad, a sands of workmen here is gone Yours sincerely,

DISCONSOLATE MANUFACTURES.

German cheap labor seems to be disadvantageous to English labor, just as it or the latter would be to us only for the protection afforded by the tariff. Here is another instance quoted from the same paper :

"The intelligence of German employees is to be commended. What they do not know to-day they will take every care to learn by to-morrow, and so they keep alwess of the times. In a great variety of arti-Reep answast of the times, in a great variety of arti-cles the Germans have secured a large trade in London. To mention a few only, there are buttons, braiding, ladied jerseys, men's cardigan inchets, bostlaces, drac-ring grown, woolen shawls, bosts and shoes, fancy hostery and gloves. Taking the two last-named, one agent and merchant of our acquaintance says that quite two-thirds of the goods which pass through his brends are of facility ordering. The gue of faching sidedness of free trade is evident. And, if with abundant capital, gathered in the course of centuries of looting and trading, England is petes with England, and it may be noted that there is nothing by which the purchaser may distinguish the for-eign from the home made article. The boxes contain-ing them are of identical charater, the label hands are printed in English, and there is no mark or letter to guide the buyer should he have a preference. Taffe-ta gloves (a mixture of silk and cotton), whether made in Saxony or England, are to all appearances precisely alike. Leicenter, however, continues to remain un-approached by the Germans in the manufacture of ringwood gloves of knitted worsted, which have been in demand. Leather gloves, since the Franco-Prussian war, have been largely turned out at Prague and Vienna and in South Germany, and Worcester and Yeovil have necessarily felt the competition. Dress gloves, however, are not made in England at all, Naples having almost a monopoly in so far as the cheaper kinds are concerned, solid here at ss. and upward per pair; but all the very best kid gloves are A CITY FIRM. French. Yours, &c., LONDON, August o.

Paper Making in Siam.

Native paper is manufactured in Siam from the bark of a tree called tou koi, and the following is the process of manufacture : The smaller branches of the tree are cut and steeped in water for two or three days; the bark is then stripped off and brought in bundles and sold to persons who make the paper. The bundles of bark are put in water for two or three days by the paper maker, and having been cleansed from dirt are taken out and steamed over a slow fire for two days, a little clean stone lime being sprinkled through the bark. It is then steeped in water in earthen jars, and more lime is added. After a few days it is taken out of the jars, and having been well washed to free it from the lime, it is beaten with a mallet until it becomes a mass of soft pulp. A frame of netting, about six feet long and of width varying from eighteen to five inches, is set afloat in water, and the pulp having first been again mixed up in water is skillfully poured out on to the frame so as to be equally distributed over it. The frame is then lifted out of the water and a small wooden roller is run over the surface of the pulp. By this process the water is squeezed out and the pulp pressed together. The frame, with the pulp on it, is then set to dry in the sun, and in the course of about ten hours it is quite dry, and the sheet of paper is then lifted off the frame. The surface is then smoothed by applying a thin paste of rice flour, and then rubbing it with a smooth stone. A black paper which is written on with a slate-pencil is made by coloring the surface with a mixture of charcoal. The paper-making industry of Siam is burdened by a heavy tax, varying from 7 per cent. on the best quality of paper to 100 per cent. on the commoner sorts. Native manufacturers are but few, and in consequence of this heavy impost the industry itself cannot develop to any considerable extent.

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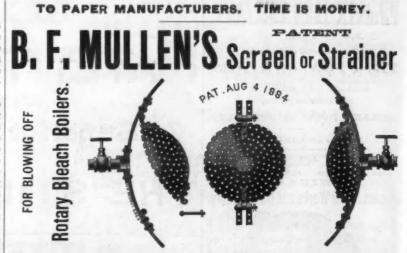
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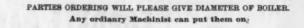
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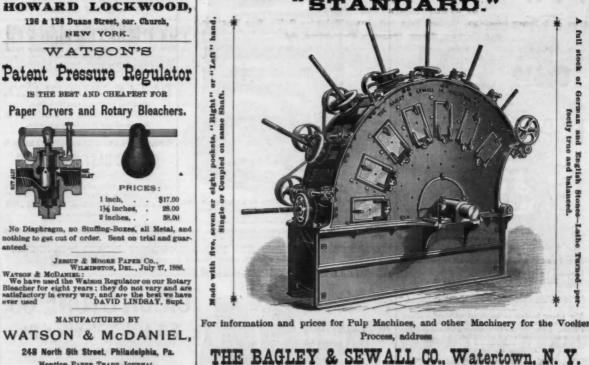
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