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

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Trade Topics.

Apparatus for the Manufacture of Paper for Packing Goods, &c.

A patent has issued out of the United State Patent Office to James Alfred Turner and James Tolputt Stoneham, of West Gorton, Lancaster, England, for an improved material for covering or packing goods, and a process and apparatus for manufacturing the same.

The invention relates to the manufacture of a material suitable for covering or packing arti-cles, for lining packing cases, and other purposes. Fabrics for these purposes have hitherto been produced by uniting together with water proof material two or more thicknesses of paper or woven fabric, or a thickness of paper with a thickness of woven fabric, and in some cases by the use of a single thickness of paper strength

ened in one direction with parallel threads.

The object of this invention is to produce at a cheap rate a material or fabric which is strengthened in both directions without the use of fabrics previously woven. The patentees cause a continuous web of paper to travel in the direction of its length, serving it or covering it with water-proof or water-repelling material in a fluid or semi-fluid condition—as, for example drying oil, resinous or bituminous material. caoutchouc, gutta-percha, and the like. From a beam or set of bobbins they supply a number of threads, which are laid or passed over and on the served paper longitudinally; and from other bobbins they supply other threads, which, by means of oscillating levers or bars, have a trans-werse movement imparted to them while the paper travels onward, by which means these threads are laid in a diagonal or zigzag manner over and on to the paper and longitudinal threads. The whole then passes between rollers, which press the paper and threads firmly together, the water-proof or water-repelling material causing the whole to cohere.

Sometimes fine wires are employed instead of or along with the threads, either the longitudinal or the transverse, or both; and sometimes also another thickness of paper is passed through the pressing rolls, so as to cover the

For this process of manufacture they use an apparatus consisting of a roller, which is made to revolve in a tank or vessel containing the waterproof or water-repelling adhesive material in a fluid or semi-fluid condition. When the material employed is of a kind that is rendered fluid by heat the tank is kept hot by a steam jacket, and the roller is made as a steam roller. A continuous webof paper is drawn from a beam passed over the roller, under a deflecting rule, and over a knife or scraper, so that it receives a coating of adhesive material from the roller, and has this coating scraped and equalized by the knife. The paper then passes round a guide roller and between two pressing rollers, whence it is led to drying rollers. A number of longitudinal yarns, derived from a beam or from bobbins, pass with the paper between the pressing Also, a number of other yarns are passed through holes in plates, which are caused to re-ciprocate rapidly to and fro across the paper, and these yarns pass also between the pressing rollers along with the paper. The plates, reciprocating transversely while the paper travels on-ward, have the effect of laying each of the yarns upon the paper in a zigzag form, and by arranging the motions of the two plates so as to make their strokes in opposite directions, the yarns of de to cross those of the other set; so that when the two sets are laid on the paper they appear arranged as a net-work in the form of a number of successive diamonds

The plates are caused to reciprocate in the following manner: On the axis of the first roller a toothed wheel is fixed. This wheel, by an intermediate wheel and pinion, drives a roller having an undulating cam-path cut in its periphery. In this cam-path is inserted an anti-friction roller, mounted on an arm projecting from a vertical Another arm on this spindle is joined to one of the plates.

A like arrangement of gearing, with a camroller and upright spindle at the opposite side of the machine, is provided to work the other plate, and both plates being fitted to slide horize in guides, their reciprocation is effected by the action of the cam-paths causing the spindles to rock. The cams are so set that the plates are made to reciprocate always in opposite direc-

The intermediate gearing, by which the roller is connected to the cams, may be made in any desired proportions, and several sets of gearing, in different proportions, may be provided, like the change wheels of a lathe, so that the velocity of the cams in relation to that

the obliquity of the yarns, as they are laid on

the paper, may be altered at pleasure.

In some cases the inventors dispense entirely with the longitudinal yarns, or employ only a few of these at or near each edge of the paper to form a selvage, strengthening the edges. Also they sometimes employ only one set of the transverse yarns, and in such a case one of the plates being kept stationary, can serve to guide longitudinal yarns, if desired.

Sometimes a web of thin paper is led from another beam on to the paper at a point beyond the pressing rollers, passing between both pressing rollers, so that the thin paper is caused to adhere to the main web and to cover the varns laid upon it, forming a lining to the material.

The yarns may be threads of any suitable material; or fine wires may be used when great strength and stiffness are desired.

The inventors' claims comprise:

1. An apparatus for manufacturing material by causing a web of paper served with adhesive material to travel longitudinally, while one or two sets of yarns, threads or wires are guided by oscillating bars to traverse to and fro across the paper, consisting of pressing rollers, plates, a vertical spindle, having an arm, upon which an anti-friction roller is mounted, and a roller hav-

ing an undulating cam-path cut in its periphery.

2. In apparatus for the manufacture of such aterial, oscillating bars, provided with holes, through which varns are passed, for guiding the yarns, threads or wires, so that they are laid in

zigzag form on the traveling paper.

3. The combination of the roller, tank, beam, deflecting rule, scraper, guide roller and pressing

Improvement in Paper Cutting Machine

Wilber F. Hill, of North Manchester, Conn. has secured a patent for an improvement in machines for cutting paper. The improvement re lates to machinery for the manufacture of paper, it having for its object the cutting off of sheets from the roll as it passes continuously from the paper-making machine. With the ordinary devices in use for cutting off paper from a roll the paper cannot be run continuously, but is stopped at each cutting operation, as the time taken in cutting causes the paper to run out and form a loop, which interferes with the cutting, and prevents the paper from following through the cut ting mechanism.

By means of the devices herewith illustrated sheets can be cut off at any angle desired from a continuously-moving roll of paper as it comes from the paper-making machine, or from a drum on which it has been wound.

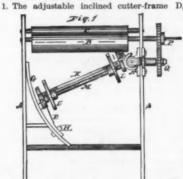
In the accompanying drawings, Figure 1 is a front view of the machine. Fig. 2 is a top view with the rolls over which the paper passes to the cutters removed, so to show the parts be-

A is the stationary frame of the machine. B is the roller over which the sheet of paper comes from the paper-making machine or other source of supply. C is a smaller roller, resting upon the continuous sheet, in the usual manner, to press it upon the roller B, which may be called the "feeding-roller." D is a movable frame, which is hung upon a hinge-joint, E, so that it can move in a vertical plane. At the other end it is provided with a slide, F, which moves upon an arc, G, and to which it can be secured in any position by means of the set screw or clamp H. I is a movable cutter bar, which slides back and forth in horizontal grooves in the ends of the frame D. It is pressed forward or away from the opposite or stationary cutter K by means of are provided with cutting-edges, forming a shears, the edge of I being slightly inclined, so as to cut a little drawing, in the customary manner with such edges. The cutting-edges are pressed together by means of the revolving cams L, which are given such a form as to press the bar I up quickly to do the cutting, and are instantly released, so that the bar may at once fall back from the paper and allow it to continue its motion. The cams L are placed upon the shaft M, which is provided with the universal joint N, whose centre is in the same line with the hinge joint E, so that the shaft M can move with the frame D, and at the same time be driven by the wheel O, which is geared to the shaft P of the feeding-roller B. The rotation of the cams L is thus regulated, so as to cut off any desired length from the continuous sheet. R is a holding bar. for holding the paper while being cut. It moves on slides R1 upon the cutter bar I, and is pressed oward the bar K by means of the springs S.

The operation of the cutting machine is as fol-The continuous sheet of paper passes over the drum or roller B, and between the cutting bars I and K. When the cams L come opposite the cutter bar I, they press it and the holding bar R which it carries with it toward the paper. of the roller may be varied. In this manner Just before the cutting edges engage, the hold- tain will separate.

ing bar R clips the paper between it and the bar K, so as to hold the sheet while being cut. The cutting edges then shear the paper and are instantly released, so that the contin move on before it has time to form a loop or become disengaged from its proper position. When it is desired to cut off square sheets, the bar I is set horizontal, and when it is desired to cut sheets at any other angle, the frame D is depressed, so that the cutters shall have the proper inclination, and is clamped to the arc G by means of the nut H, which holds it firmly in position. The inventor claims:

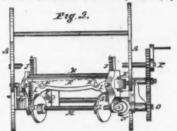
1. The adjustable inclined cutter-frame



hinged at one end, in combination with the slide F, the arc G, and the clamp H.

2. The frame D, containing the cutters swing-ing upon the hinge E, in combination with the cam-shaft M for operating the cutters, connected with the actuating mechanism of the machine by means of a universal joint, N, in line with the

3. The combination of the rotary cams L, ope-



ating to press the cutters together, the cutter bars I and K, the holder-bar R with its springs S, and the springs J for withdrawing the cutter

Manufacture of Soda from its Sulphate.

A new process in the manufacture of soda from its sulphate has been patented by Frederick Gutzkow, of San Francisco, Cal.

The nature of the invention consists of an im-

proved process of preparing caustic soda, or the carbonate of soda, from sulphate of soda. There are for this operation no apparatus or implements required but such as are commonly used

and generally known in the arts. A tank or cistern, made of stone, wood, or metal, and provided with a false bottom, or a perforated pipe, or any other appliance by which gas may be drawn or forced through a liquid, is partially filled with sulphite of lime obtained in the course of the process, as described below. Water is added, and sulphurous acid, obtained also in the course of the process, or from any other source, is forced through the pulp until it is fully or quite saturated with the sulphurous gas, and the sulphite of lime has been wholly or solution or in the dry state, is added, when a pre-cipitation of sulphate of lime will take place, which is removed by filtration or settling, form ing a by-product of the process

The solution of bisulphite of soda thus obtained is run off into a closed vessel or still, and heated to the boiling point by steam or otherwise, when sulphurous acid will escape with the water vapor, which, after being suitably cooled, is pas into the tank or cistern, where the sulphite of lime is dissolved, as described above

The solution of the neutral sulphite of soda thus obtained is run into an iron vessel, and about so much quicklime stirred in as the proportion of the sulphite of soda in the solution require in order to form caustic soda and sulphite of lime. The sulphite of lime is removed by filtration or settling, and re-enters the course of the process, as described above.

The clear solution of caustic soda thus obtained nay be exposed to the action of carbonic acid, and converted into a solution of the carbonate from which the commercial sal soda or soda ash or bicarbonate is manufactured in the usual way. or it is at once boiled down for caustic soda, when, in the course of the concentration, the sulphite and sulphate of soda which it may still con-

Correspondence.

British Notes.

[FROM OUR REGULAR CORRESPONDENT.]

13 PATERNOSTER Row, London, E. C., January 5, 1878.

The new year has opened very inauspiciously if the weather may be taken as any indication-The cold, sharp frosts have again given way to wet, muggy dirt and slush. It is surprising to note the dampening effect of such weather. We Englishmen are great observers of the weather, and can ever find in this at least a subject for onversation; so excuse my opening 1878 with a growl at an old enemy. There is not very much to report in the way of business this week, as many people join the New Year to Xmas and keep up both holidays. The prevailing anxious topic is the action of Government, and every trade is awaiting the 17th inst. with great suspense. Nothing will be done until the eventful day comes and the programme of our Cabinet is in the hands of the public. Various opinions naturally exist as to the intentions of Government, but the majority of people think, and certainly hope, that they are peaceful. As soon as this vexed question is settled we may, I think, reasonably look forward to a time of real good siness. Every trade has been slack during the past year, and a general rise in all commercial quarters may be expected. Indeed, after so low a condition of things, a violent and excitable reaction may be looked for. Meanwhile there is great distress in many of our manufacturing districts, chiefly owing to strikes. The iron trade has especially suffered. It is to be hoped that if our working classes cannot see the folly of driving trade away into foreign countries, they may be taken in hand and trades unions suppressed or put under proper government. The new year, while opening ominously, has yet signs of promise, and I trust we may find it a good year for our

Our markets cannot offer any very special point of interest just now, as the holidays and the uncertain state of affairs preclude any change taking place. Things are about the same, but as it is always interesting to know at the beginning of each year how we commence trade, I have appended a full report of the various markets.

There is no mill news this week of any conse quence. Many mills have been taking advantage of the holidays to have a thorough clean-up and see to their machinery and plant being in proper epair to start the new year with.

I see the Edinburgh Paper Mills were burned down yesterday. The loss is estimated at about £35,000. They employed 80 hands.

A contemporary has the following remarks: Paper-makers evidently may look forward to a happy new year. The following may give a clear view of the extent of our paper trade. It is generally admitted that the process of paper-making was introduced into England about the beginning of the fifteenth century, and into Scotland at the end of the eighteenth century. The process of converting rags into pulp was until the last century very laborious, but at that time the Hollander or beating machine was invented, which ompletely revolutionized the mode of making paper. The number of mills in Great Britain is 385, of which 65 are in Scotland. There are in these mills 526 machines at work, producing annually 350,000 tons of paper, to which must be added 10,000 tons made by hand. The total production is thus 360,000 tons, valued at twe millions sterling. Our exports amount to 16,000

Our friend and contemporary, the Paper Makers' Monthly Journal, has published with its January number a supplement which is really an alphabetical list of the paper mills, manufa urers and their specialities in the United Kingdom. A number of advertisements also com plete a very useful and handy reference in the The Journal itself is more than usually interesting, and contains much matter calculated to impress its readers. I particularly note the appeal for, and defense of, the Paper-makers Club, and I see that at the next meeting "the complete reorganization of the club, and an extension of its usefulness to the trade" a subject of consideration.

The question of fibre supply has often been alluded to in these columns and I see from a short note in the British Trade Journal that experiments have been made with the leaf of the pine apple plant. This plant grows very luxuriantly in the tropics, and the penguin—a fibre which I have repeatedly advocated here-belongs to the same family as the pine-apple. In the West Indies the pine-apple and penguin plant flourish abundantly, the latter being considered a positive eradicate. It spreads wonderfully, and hence a are yet low and likely to be for some time. I

good supply might in a few years be relied upon Even as the utilization of waste products has been a growing industry and produced boundless wealth to people who have prosecuted the matter perseveringly, so we shall soon cultivate weeds and find it pay. The fibre of the pine-apple family is good, clean and strong, and would be an excellent material for paper-making. It takes very little chemical treatment and when properly prepared is about the finest fibre I have ever seen for color and quality. Several specimens prepared in Jamaica were sent to the Centennial

Our Home Markets .- Our fibre market is so quiet through the absence of people that any remarks are unnecessary. Prices at present are but nominal. Inquiry increased somewhat to-wards the end of the week and holders were firm. Many contracts for waste papers are on the tapis, and we may perhaps expect rather better prices.

Rags.—Best linens, 26s.; No. 1 ditto, 24s.; No. 2 ditto, 20s.; No. 3 inferior ditto, 15s. to 16s.; the best cottons, 24s. to 35s.; No. 1 ditto, 21s.; No. 2 ditto, 16s. to 17s.: No. 3 superior ditto, 14s. to 15s.: blues, 16s.; colored rags, 10s. to 12s.; London fines, 25s.; Essex ditto, 25s.; outshots (country), 15s.; seconds, 10s. to 11s.; thirds, 6s. to 7s.; be canvas, 22s.; seconds, 15s. to 17s.; inferior, 9s. Clean gunny, 9s. to 10s.; bagging, 7s.; coil rope, 12s.; white rope, 9s. to 10s.; jute cuttings, 12s.

Wastepapers.—Best cream shavings, mixed ditto, cream and blues, 16s. to 18s.; blues, 16s.; seconds, 14s. to 16s., thirds and mixed, 4s. to 6s.; strong brown papers, 5s. to 6s.; mixed ditto, 3s.; ledger paper, 14s.; letter ditto, 10s. to 12s.; black news, 5s.; railway tickets, 5s.; rubbish and sweepings, 2s.

In esparto trade has been very dull during De-Nothing has occurred to break the monotony of the quietness of this market. There are some very heavy stocks and remnants of stocks in the hands of consumers through bad trade, and this must have an effect and stay demand for a time. The quality of the grass has greatly deteriorated and picking, selecting, sorting, &c., and other tiresome hand operations have to be borne by the consumer in order to get a decent sample for use. The prices are as fol-lows: For Spanish, £8 to £10; Algerian, £5 5s. to £6 10s.; Susa, £7 10s.; Mogador, £5; Sfax, Gabes and Tripoli, much the same, £5 to £5 5g, Aiss and palm-leaves, nominal sales at £4 to

In Pulps, the Gottenberg Chemical Company, of Mincing Lane, quote: Bleached chemical wood or straw pulp, dry, in sheets, at £23 to £24; unbleached ditto, £19 to £21; dry pine pulp, £10 to £10 10s.; dry aspen, £11; moist 50 per cent. pine pulp, £5, in sheet or cake; moist 50 per cent. aspen, £5 15s. In this market there is a little activity always observable at the time preceding the closing of the navigation of Scandinavian ports. There is, however, no scarcity to meet the demand.

Chemicals. -- Messrs. Cooper, Bros. & Co. report that there is no change to notice in either the Newcastle-on-Tyne or Liverpool market, business continuing much depressed. Prices are: Refined alkali, 50 to 52 per cent., 1%d. per per cent.; soda ash, 48 to 52 per cent., prompt deliv-ery, 134d. per per cent., less 6 per cent discount; soda crystals, gross, £3; bleaching powder, 35 to 36 per cent., £5 5s.; foreign antichlor, £9; English ditto, £10 5s.; Jarrow caustic soda, 74 per cent., £14. For 1878—Soda ash, 45 to 52 per cent., 1%d., less 5 per cent. discount; bleaching powder, 35 to 36 per cent., £6, less 5 per cent discount-all f. o. b. the Tyne, less the usual

In Liverpool, prices are: White caustic soda, 70 to 74 per cent., £13 5s.; white caustic soda, 60 er cent.. £11 5s. : cream caustic soda, 60 to 60 per cent., £11; caustic soda bottoms, £8; bleaching powder, in hard wood casks, 35 to 36 per cent., £5 7s. 6d.; ditto, in soft wood casks, £5 5s.; soda ash, 48 to 52 per cent., 1%d. per per cent. -all less 21/2 per cent. discount, and f. o. b. Liverpool in Mersey.

13 PATERNOSTER Row, London, E. C., January 12, 1878.

Trade and orders are like trade news-scarce. The minds of most people are now upon politics, and discussions over the great problem of peace or war are plentiful among people who ought to be too busy to "talk politics." The eventful The eventful 17th January, 1878, will, I am truly thankful to say, be over and past before my next letter to you. Everybody is awaiting its advent, I most anxiously. I consider a grave crisis is at hand which will decide the question of business for this year. Our trade has suffered very severely, and our shipping business—one of our strongest points-was never known to be in such a low state. If then the cloud can be dispersed, and a ray of sunshine let in upon our expectant gaze, what a relief it will be. As I remarked, there is bête noir. When it once gets a good hold it is something like our hop plant—very difficult to scarce, and get worked off much as usual. Prices

think, indeed, all our markets exhibit a tend ency to firmness at present quotations, and I do not think they will move either way for the Our coal market has shown wonderful steadiness for some months, it will remain in statu quo I should think. Then as to fibres business is very quiet, and buyers are still keeping aloof until they see what is going "to turn up." Rags keep unchanged in price, and very few inquiries are made. Fine white linens and cottons are in very limited demand at last quo tations. Middle and low-classed rags were more looked after, and some American orders were noted but declined, the limit of prices being too low. Gunny unchanged, but a few parcels changed hands at last prices. Waste papers go slowly. There are some very heavy stocks here now, but holders seem very firm and not in clined to do business except at their prices Several American orders in this particular article were declined. Esparto and other fibres are the same.

There is no excitement, no change, either in demand or supply or price. This is what I call being very steady. In chemicals there is nothing doing, but it is very difficult for this market to keep steady throughout, as there is a good deal of speculative dealing always going on. Sometimes it is in ash, sometimes bleach, and other times crystals, &c. Ash continues at a very low price, 13d., less 6 per cent., or at 48 per cent., £5 15s. per ton. I believe several merchants went in for this article last year at 136d, and their warehouses are full of it from to street level. Enormous stocks exist which will have to be sold soon, I expect. Chemi cals are not like wine-they don't improve by keeping. Besides they are a heavy affair to ware house and represent considerable capital lying Bleaching powder is a little firmer, but crystals are decidedly queer at £3 5s., less 6 per nt.! Now is the time for your paper-makers to contract. Prices will hardly be lower.

I see our well-known paper dealers, Fourdrinier & Hunt, have opened their large fine warease just off Ludgate Hill. It looks a good substantial building and is fitted up with every

I was rather astonished to hear an account of e of the discussions at the Society of Arts after a lecture on paper-making. Of course. the question of utilizing fibres came in and was "discussed." One would think that there, at any rate, common sense, practical suggestions would be heard. I hear, too, that my old friend, the bamboo, turned up there in great force, several gentlemen relieving themselves of their super andant knowledge of this superabundant fibre. I hear much was said about "greenhouse bamboo." I protest against this sort of discus sion. There are, to my certain knowledge, three men within easy call in this country who understand the real question at issue, and why can't they be summoned to give their experience and knowledge of the bamboo on such occasions Having seen the bamboo growing, having cultivated, cut, worked it, and made into fibre, and then into paper, I think I know what sort of ciety of Arts' discussion is made of.

Talking of bamboo reminds me of other wood fibres. I saw a splendid sample of chemica wood pulp last week, but it was 25s, per cwt. This is too dear. The Gottenberg Chemica Company supplies excellent unbleached chemical much less. I also saw accidentally a sample of mechanical wood-pulp offered at £3 17s. 6d.! In the price list of the firm it was marked £5. Moral-Don't put too much confidence in price lists. In fact, printed lists are a great mistake altogether.

I heard a very good tale last week of a gen tleman well known in the printing trade. A paper traveler called upon him for an order for paper. The printer looked sadly at him and said: "Ah, my friend, most of our customers send us paper with their orders, and we eat our meat and potatoes. But when we do the paper for them, as well as the printing, we can afford greens with our meat besides potatoes!" traveler saw through it and was sorrowful. This was many years ago. Now, I really think the printer has a bottle of wine besides the

greens and potatoes. How wonderfully trade journalism is pro gressing! We have scores (almost) of trade I saw one devoted to the provision and meat trades, which contained a long leading article upon the American trade in these commodities. But I have seen nothing to touch The American Mail and Export Journal, so far as finish and general style are con cerned. Many encomiums have been passed upon it here, and though, of course, it is very pleasing to hear it all, and very gratifying to an agent, I yet feel a pang of jealousy that we have not something to show against it. The Printers' Register for this month says: "No. 6 of The American Mail and Export Journal, New York, is a marvelous proof of American enterprise. It is full of interesting and valuable information from the leading commercial centres and the numerous advertisements testify that it is fully appreciated by American manufacturers." This is all true.

I notice your correspondent's inquiry relative to the use of wire netting here in place of the ordinary drying felt. I have inquired for information upon this point, but have not yet suc, ceeded in getting any reply. I don't think it worked very well, or in these days of improvement some of our wire-makers would have worked the idea out. I hope to obtain the opinion of a practical man who has actually tried it. and as soon as I do this, I will at once be glad to oblige "Juvenile."

Home Markets.-Coals.-Prices at close of market were: Wallsend-Hetton, 18s.; South Hetton, 18s.; Hartlepool, 17s.; Lambton, 17s. 6d.; original Hartlepool, 18s.; Tees, 17s. 9d.; Hetton Lyons, 15s. 9d.; South Hartlepool, 16s. 3d.; Tunstall, 15s. 9d. Ships at market, 33; sold, 12; contracts, gas, &c., 12-24; unsold, 9; ships at

Fibres are all the same as last week, and chem-W. F. C.

Philadelphia Notes.

[FROM OUR REGULAR CORRESPONDENT.]

PHILADELPHIA, January 24, 1878. That business not only in the paper trade, but n all other lines, is more than ordinarily quiet is evident wherever we go. There is a universal lack of pluck prevalent, and it seems a golden opportunity for anybody who has spirit and eash to go in and win. The large failures have produced a degree of caution which, for the time being, has absorbed all the life and activity of trade. There is a point to which lack of con dence can be carried that will rebound to the injury of its advocates. It may have the effect of still further decreasing the supply required for legitimate trade and establish a basis for advance in prices.

The Free Pipe Line bill in our Legislature, the silver question, and the tariff on iron are all of vital interest to the business of this city and of every other section of the country, to a greater or less extent. The sooner these are settled and resumption accomplished the better for all con-

Our paper manufacturers are generally moderately active on orders, but at very low prices. There seems to be no remedy at present, as the supply is fully equal, if not in excess of, the de

Paper stock remains stationary in the price but is held firm nevertheless. There has been a good representation of the paper trade in this city during the past week. Among them Mr. Carew, of Carew Manufacturing Company; J. R. Davis, of Codovus Paper Mills, York, Pa. Mr. Tolson, of Baltimore; Mr. Mac Crullish Trenton, N. J.; I. H. Jones, Lancaster, Pa.; Mr. Perkins, of Bristol, N. H.; Jas. Butler, Reading, Pa.; J. Wright, Kennett square, Pa.; J. Rice Pueblo, Col. A. D. Jessup is in town and proposes returning to Europe February 9.

Among the early pleasant recollections of the writer is that connected with Wm. H. Flitcraft, then a clerk in the extensive paper house of Charles Magarge & Co. About 1860 he started in business for himself on Minor street, and for a number of years done a large and profitable busi ness. In his concern J. G. Ditman, now one of the bright-shining lights of the paper trade, received his primary education in this business, which has been so successfully enlarged on since. About five years since Mr. Flitcraft was stricken down illness. After intense suffering death finally released him on Tuesday. He will be remembered by those who knew him as one of the most genial and companionable of men. always ready to oblige, and to the best of his ability prompt and honorable in all his dealings. May he sleep in peace!

In the matter of the Union Paper Bag Machine Company vs. Edmund McCready, on motion to confirm master's report and overrule exceptions, an order was granted confirming report and awarding a decree for \$1,891 damages and costs, and execution ordered to issue at expiration of thirty days.

E. K. Jeanes advises your correspondent he is daily expecting a large invoice of rags from

Philadelphia white rags are quoted stiff, but without material advance. Leghorn and Russian rags are as low in present quotations as they will be offered at.

M. Clark, 21 South Front street, has received on consignment 1,000 barrels of superior English

Chemicals.—The characteristics of the market the past week have been dullness, but steady prices. Fair stocks in store, but holders do not seem anxious to sell, as no specially heavy arrivals will come in, over current demands, for some few weeks. English manufacturers continue to hold prices firm, not only for prompt shipments, but especially so for contracts of bleach and ash over the year; in fact, the latter quotations continue above the views of buyers. One probable cause of the present weakness for goods on spot is that forced sales continue to be nade of consignments from some of the weaker

Bleaching powders, jobbing at 11/2c. gold to 1.70c, currency per lb.; caustic soda ash at 11/c. to 1.95c. gold for 48 per cent.; carbonated soda ash, slow sale, at previous quotations; caustic soda, 60 per cent., 4%c. to 4%c. currency per lb.; high test, 70 to 76 per cent., at 41/6c. to 41/4c. gold for 60 per cent.; sal soda, in large supply, three Newcastle vessels having just arrived, although most of it is sold to arrive at 1%c. to 1.45c. currency; English China clay has been in demand, now held at \$17 to \$18 gold per ton for No. 1 and \$21 to \$23 gold for extra quality South Carolina clay continues scarce, owing to non arrivals; alum, selling fairly, lump, 25 ground, 21/4c.; Natrona porous, 31/4c.; yellow prussiate, firm; rosins remain quiet, strained, \$1.90 to \$2.00 per bbl., 280 lb.; No \$2.10 to \$2.20; No. 1 clean paper maker's, \$2.37\/ to \$2.60. CHALLEN.

The Standard Wire Works.

Eastwood Buchanan & Smith, Belleville, N. J., report that they have built a new brick factory, two stories high, 100x30 feet, with large extension for engine-room, boiler and furnace rooms, with improved machinery for the manufacture of wire and wire cloth, their works being driven by a Corliss engine, built by Wm. A. Harris, of Providence, R. I.

Their mill site, which is situated on the Passaic River, and within two hundred yards of Essex Station on the Newark branch of the Eric Railway, has great facilities for shipping goods, and thus they have great advantages in filling their orders promptly, and although they were only established in August of last year, they claim to have met with great success.

Having the benefit of experience and all of their own improvements, they are enabled, with their fine machinery, to produce Fourdrinier wires, which they assert will give great satisfaction to Jan. 1, 1878. the paper-maker. Within six months they have found their present capacity unequal to the

amount of work for which they receive orders, and are now doubling up their plant. They have received letters patent for "Safety Edge" Fourdrinier wires, which they regard as a bene fit to paper manufacturers. All who use their wires are reported to be pleased with their quality and edge

Taking into consideration their business and practical experience, together with their fine machinery, they feel confident that they will continue to turn out fine grades of goods and look to the present year with great hopes.

New Patents.

No. 198,469. Machines for Lining Paper-Boards.—J. F. Seiberling and Monroe Seiberling, Akron,

1. In a machine for lining pasteboard, the ombination of an adjustable depressing roller and paste-box, or their equivalents, in combination with paste-spreading rollers and a drying roller

2. An adjustable depressing-roller and paste box, in combination with paste-spreading rollers placed over the box.

No. 198,496. Vulcanized Rubber Fabrics for Belt ing.—John Murphy, Brooklyn, assignor to the Gutta Percha and Rubber Manufacturing Co., New York, N. Y.

An extra strip of sheet-rubber inserted tween the outer and the adjoining inner ply or inner plies of the belt, and right under the butt-joints of the outer ply, for the purpose of increasing the adhesion between the edges of the outer ply and the surface of the adjoining inner ply or inner plies.

No. 198,519. Paper Cutting Machines.-J. G. Morgan

Appleton, Wis.

1. Uprights provided with grooves for guiding the knife plate, and bearings for the camshaft, combined with a cap having bearings or supports for the projections of the yokes and for the central vertical shaft and screw of the binder

2. A binder having side bearings in the frame and operated from a central shaft and gear by means of vertical screws and gears combined with a bed plate having an adjustable gauge and guide.

3. A sliding gauge upon the cutting table ope rated by a screw, in combination with an eccentric and stud for securing the screw in position and preventing any movement of the gauge during the act of cutting.

No. 198,671. Apparatus for Recovering Alkali from Waste Solutions .- Martin Nixon, Philadelphia,

A heating and evaporating apparatus, consist ing of a furnace and a heater adapted to be ro tated within the furnace, the heater, through which the solution is caused to pass, being com posed of a system of tubes, hollow end plates and trunnions.

REISSUES.

No. 7,978. Machines for Grinding Objects Cylindri cally.—J. Morton Poole, Wilmington, Del., assignor to himself, Wm. T. Porter, and T. S. Poole, same place. Patent No. 99,000, dated January 18,

The combination of a traversing grinding echanism, and yielding bearings for supporting the object to be operated upon.

No. 8,090. Paper-Box Machines.—Henry R. Heyl and August Brehmer, Philadelphia, Pa., assignors to the Novelty Paper Box Company. Patent No. 133,078, dated October 8, 1872; re-issue No. 6,745, dated November 16, 1875; re-issue No. 7,401, dated November 28, 1876.

United States Treasury Department.

878.—Department No. I.—Secretary's Office.—Circu lar Exhibiting the Values in United States Money of the Pure Gold or Silver representing, respectively, the Monetary Units and Standard Coins of Foreign Countries, in compliance with the Act of March 3, 1873.

TREASURY DEPARTMENT, WASHINGTON, January 1, 1878.

The first section of the Act of March 3, 1873 Statutes at Large, volume 17, page 602, reproduced in Section 3,564 of the Revised Statutes, provides "that the value of foreign coin, as expressed in the money of account of the United States, shall be that of the pure metal of such coin of standard value," and that "the values of the standard coins in circulation of the various nations of the world shall be estimated annually by the Director of the Mint, and be proclaimed on the first day of January by the Se the Treasury."

The estimate of values contained in the fol-lowing table has been made by the Director of the Mint, and is hereby proclaimed in compliance with the above stated provisions of law

Country. Monetary unit. Standard. Value in U.S.

Austria				
Belgium		Florin		.45,3
Brazil		Franc	Gold & silver	.19,3
Brazil	Bolivia	Dollar	Gold & silver	.96,5
Sions in N.A. Dollar Gold. \$1.00	Brazil	Milreis of 1000reis	Gold	.54,5
Bogota	Brit. Posses-			
Bogota	sions in N.A.	Dollar		\$1.00
CentAmerica Dollar Silver 91,8	Bogota	Peso	Gold	.96,5
Denmark		Dollar	Silver	.91,8
Denmark	Chili	Peso	Gold	.91.2
Ecuador Dollar Silver 91.8	Denmark	Crown	Gold	.26,8
Egypt Pound of 100 pias Gold 4, 97,4 France Gold & silver 19,3 Grest Britain Pound sterling Gold & silver 19,3 Gerece Drachma Gold & silver 119,3 Japan Yen Gold & 99,7 10dia 119,3 Laira Gold & 99,7 10dia 119,3 43,6 Laira Gold & 30de 19,9 19,3 10de 19,0 19,3 Liberia Dollar Silver 99,8 8,6 10de 19,0 <	Ecuador	Dollar	Silver	.91.8
Greece Drachma Gold 4,86,84 Greece Drachma Gold 6,86,84 Greece Drachma Gold 6,86,84 Gold 6,87 Gold 99,7 India Rupee of 16 annas Gold 99,7 India Rupee of 16 annas Gold 43,6 Italy Lira Gold 6,90 Italy Lira Gold 1,90 Mexico Dollar Gold 8,81 Italy Lira Gold 8,81 Italy Lira Gold 8,81 Italy Lira Gold 8,81 Italy Lira Gold 8,85 Italy Gold 8,81 Italy Gold 8,85 Italy Gold 8,85 Italy Gold 8,85 Italy Gold 1,90 Italy Gold	Egypt	Pound of 100 pias		
Greece Drachma Gold 4,86,64 Greece Drachma Gold 6,86,64 Greece Drachma Gold 6,86 Gold 6,97 Gold 99,7 India Rupee of 16 annas Silver 43,6 Italy Lira Gold 99,7 Italy Lira Gold 99,7 Italy Lira Gold 1,90 Mexico Dollar Gold 1,90 Netherlands Florin Gold 8,81 Norway Crown Gold 8,81 Peru Dollar Silver 99,8 Peru Dollar Silver 91,8 Portugal Milreis of 1000reis Gold 1,90 Russia R'be of 100 copks Russia R'be of 100 copks Swandwich Isl Dollar Gold 6,8 Sweden Crown Gold 6,8 Sweden Crown Gold 6,8 Sweden Crown Gold 6,8 Sweden Crown Gold 6,8 Switzerland Franc Gold 6,8 Turipoli Mahb'b of 20piast Silver 19,3 Turis Plast rof 16 car'bs Silver 1,8 Furkey Plaster Gold 1,8	France	Franc	Gold & silver	
Greece	Great Britain	Pound sterling	Gold	
German Emp Mark Gold 99,7 Japan Yen Gold 99,7 India Rupee of 16 annas Silver 43,6 Laly Lira Gold 60 Liely Lira Gold 1,00 Mexico Dollar Silver 99,8 Netherlands Florin Gold 26,8 Peru Dollar Silver 91,8 Portugal Milreis of 1000reis Gold 1,00 Russia R ble of 100 copks Silver 73,4 Sandwich Isl Dollar Gold 1,00 Spain Pseta of 1000 ritm Gold 8 Sweden Crown Gold 8 Sweden Crown Gold 1,00 Switzerland Franc Gold 26,8 Turipoli Mahb'b of 20 piast Silver 19,3 Turipoli Mahb'b of 20 piast Silver 1,93 Turis Piast rof 16 car'bs Silver 1,18 Turkey Plaster Gold 1,18 Plast rof 16 car'bs Silver 1,18 Furkey Plaster Gold 1,18 Furkey Plaster Gold 1,18 Furkey Plaster Gold 1,18 Gold Gold 1,18 Gold Gold 1,18 Gold 1,18	Greece	Drachma	Gold & silver	.19.3
Japan. Yen Gold 99,7	German Emp	Mark	Gold	.23,8
India		Yen	Gold	.99.7
Italy	India	Rupee of 16 annas	Silver	.43,6
Liberia Dollar Gold 1,00	Italy	Lira	Gold & silver	.19,3
Mexico Dollar Silver 38,5 Netherlands Florin Gold & 38,5 26,8 Norway Crown Gold 26,8 Peru Dollar Silver 91,8 Portugal Milreis of 1000reis Gold 1,08 Russia R'ble of 100 copks Silver 73,4 Sandwich Isl Dollar Gold 100 Spain Pseta of 100 c*ntm Gold & silver 19,3 Sweden Crown Gold & silver 19,3 Tripoli Mahb*b of 30 piast Silver 82,9 Tunis Piast*rof i6car*bs Silver 11,8 Turkey Piaster Gold 04,3	Liberia	Dollar	Gold	1.00
Netherlands Florin Gold & silver 38.5	Mexico	Dollar	Silver	.99.8
Norway	Netherlands.	Florin	Gold & silver	,38,5
Peru Dollar Silver 91,8 Portugal Milreis of 1000reis Gold 1.08 Russia R'ble of 100 copks Silver 73,4 Sandwich Isl Dollar Gold 1.00 Spain Pseta of 1000 rhtm Gold & silver 19,3 Sweden Crown Gold & silver 19,3 Tripoli Mahb'b of 20 piast Silver 82,9 Tunis Piast'rof i6car'bs Silver 11,8 Turkey Plaster Gold 04,3	Norway	Crown	Gold	.26,8
Portugal Milreis of 1000 reis Gold 1.08	Peru	Dollar	Silver	.91.8
Russia R'be of 100 copks Silver 73,4	Portugal	Milreis of 1000reis	Gold	
Spain	Russia	R'ble of 100 copks	Silver	.73,4
Spain	Sandwich Isl.	Dollar	Gold	1.00
Sweden Crown Gold .28,8 Switzerland Franc . Gold & silver 19,3 Tripoli Mahb'b of 30 piast Silver . 82,9 Tunis Plast'rof iscar'bs Silver 11,8 Turkey Plaster Gold .04,3	Spain	Pseta of 100 c'ntm	Gold & silver	.19.3
Switzerland Franc Gold & silver 19,3 Tripoli Mahb'b of 20 plast Silver 82,9 Tunis Plast'rof 16car'bs Silver 11,8 Turkey Plaster Gold 04,3 04,3 04,3 04,3	Sweden	Crown	Gold	.26.8
Tripoli Mahb'b of 20 piast Silver 82,9 Tunis Piast'rof 16 car'bs Silver 11,8 Turkey Plaster Gold 04,3	Switzerland	Franc	Gold & silver	.19,3
Tunis. Piast'rof i6car'bs Silver	Tripoli	Mahb'b of 20 plast	Silver	.82,9
Turkey Piaster Gold04,3	Tunis	Piast'rof i6car'bs	Silver	.11.8
U.S. of Colom. Peso Silver 91,8	Turkey	Piaster	Gold	.04,8
	U.S. of Colom.	Peso	Silver	.91.8
	-			-

The above rates will be taken in estimating the values of all foreign merchandise made out in any of said currencies, imported on or after

I am, very respectfully, John Sherman, Secretary of the Treasury.

Manufacturing News.

EASTERN STATES.

A new "shaker" or separator has been put into Chase & Longley's wood pulp mill at Curtisville, Mass., for the purpose of improving the pulp for working into the finer grades of paper.

MIDDLE STATES.

The new pulp mill at Hadley, N. Y., is reported to have made in a twelve hours' run on the night of January 22, with one set of machinery. 1,400 lbs. dry-weight, poplar pulp. This mill uses Outterson & Taylor's new patent process.

SOUTHERN STATES.

The Bath Paper Mill, Bath, S. C., is not running at present, but expects to start up on full time shortly. James Russell is superintendent. The mill is well equipped with good machinery.

The Falls of Neuse Manufacturing Company. Neuse, N. C., is making at present 2,500 lbs. book and news daily. The mills are located thirteen miles from Raleigh, in which city the company's offices are located.

The Richmond Paper Manufacturing Company, Richmond, Va., is running full time on book and news. The company is putting in a new rubber press roll and also a brass one, made the Gavit Paper Machine Works

The Savannah Paper Company, Savannah, Ga., has turned to its full capacity on straw wrapping paper, made from rice straw, and is making three tons per day. It has just received 500 tons of soft coal from Wales, which came over as ballast on a ship intended for taking back a cargo of cotton.

Hydrogen, without any trace of sulphur, arenic, antimony or carbon, has been prepared by Varenne and Herbe, by passing the gas through a solution of 1,000 grams of water, 100 of bichronate of potassa, and 50 of sulphuric acid.

Don't judge a man by his failure in life, for many a man fails because he is too honest to

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BOOKS OF REFERENCE.

THE following is a list of Books of Reference on subjects connected with Paper Making, Chemicals, Colors, Machinery, Hydraulics, &c.:

AUERBACH. -- Anthracen: Its Constitution Properties. Manufacture and Derivatives BAIRD.—Standard Wages Computing Tables. BENSON.—Principles of the Science of Color, BENSON.—Manual of the Science of Color. BESANT.—A Treatise on Hydro-Mechanics. BOX.—A Practical Treatise on Heat as applied to the Useful Arts. Illustrated by 14 plates.

BOX.—A Practical Treatise on Mill-Gearing. 12mo.

BOX.—Practical Hydraulics. 12mo.......

BRESSE.—Hydraulic Motors. 8vo.

BROWN.—Five Hundred and Seven Mechanical

BURNELL AND LAW,—Hydraulic Engineering.
CALVERT.—Dyeing and Calico Printing, including an Account of the Most Recent Improvements in the Manufacture and Use of
Aniline Colors. With dyed Patterns. 8vo. CHEVREUL.—The Principles of Harmony and Contrast of Colors and their Application to the Arts, Illustrated with Colored Plates. 12mo.

COOPER.—A Treatise on the Use of Belting for the Transmission of Power. 8vo...... CORFIELD.—Water and Water Supply. 16mo.. CRAIK.—The Practical American Millwright and Miller. Svo

and Miller. 8vo.

CROOKES.—Handbook of Dyeing and Calico
Printing. With dyed Patterns. 8vo......

CULLEN.—Practical Treatise on the Construction of Horizontal and Vertical Water
Wheels. Quarto...

DOWNING.—The Elements of Practical Hydraulics. 8vo. FAIRBAIRN.—The Principles of Mechanism and Machinery of Transmission. 12mo.....

HERRING.—Paper and Paper Making, Ancient

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KUTTER.—The New Formula for Mean Ve-locity of Discharge of Rivers and Canals.

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RIFFAULT.—A Practical Treatise on the Man-ufacture of Colors for Painting. 8vo......

ROPER.—Use and abuse of the Steam Boiler. By Stephen Roper. Illustrated. 18mo., tucks, gilt edge..... ROSCOE.—Lesson in Elementary Chemistry, Inorganic and Organic. 12mo... ROSE.—The Complete Practical Machinist. 12mo...

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SLATER.—The Manual of Colors and Dye Wares. 12mo.

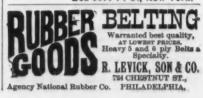
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IMPORTS of Paper and Paper Materials, Books, &c., at the Port of New York, for the week ended Jan. 18, 1878. Quantity given in packages when not otherwise specified.

Aniline Colors	12	\$1,648
Alum	-	_
Aluminous Cake	-	_
Bleaching Powders	289	3,422
Soda Ash	905	19,817
Soda, Bicarb	1,000	2,254
Soda, Caustic	1,134	22,190
Soda, Sal	1,415	4,952
Ultramarine	84	5,429
Books	163	22,461
Newspapers	20	706
Engravings	17	1,944
Ink	8	226
Lead Pencils	8	382
Paper	39	6,885
Steel Pens	1	540
Stationery	8	424
Clay	_	-
Jute Butts	-	-
Jute Rejects	-	-
Paper Hangings	7	1,231
Paper Stock	738	9,844
Waste	35	1,611
Total		\$105,966

TOTAL IMPORTS.	
General Merchandise, for the week ending Jan. 18 Paper, Paper Stock, &c., for the year end-	\$3,638,672
ing May 23, 1873	15,074,825
ing May 22, 1874	12,150,855
ing May 21, 1875. Paper, Paper Stock, &c., for the year end-	13,292,891
ing May 26, 1876	11,293,408
ing May 25, 1877	9,627,694
ending Aug. 24, 1877	2,582,595
ending Nov. 23, 1877 Paper, Paper Stock, &c., for the week end-	2,748,071
ing Nov. 30, 1877	301,146
ing Dec. 7, 1817 Paper, Paper Stock, &c., for the week end-	254,273
ing Dec. 14, 1877	86,619
ing Dec. 21, 1877	161,766
ing Dec. 28, 1877	207,330
ing Jan. 4, 1878	111,015
ing Jan. 11, 1878	206,398

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

1		Bales.	Bales.	Bales,
1	Antwerp	264	_	293
1	Bremen	80	137	83
1	Bristol	-	88	189
ı	Cardiff	-	165	147
1	Glasgow	45	189	319
1	Hamburg		128	
1	Havre		78	-
1	Hioga	40	-	-
١	Hull		269	-
1	Leghorn	3	-	_
1	Liverpool		10	240
1	London	425	626	1,566
1	Newcastle	218	-	-
1	San Francisco	307	_	-
1	Trieste	78		

EXPORTS of Paper, Books, &c., from the Port of New York to Foreign Ports, for the week ended Jan. 22, 1878, with Aggregates and Values.

BOOKS, cases, to Hamburg, 8; to Bremen, 2; to Liverpool, 13; to British North American Colonies, 1; to Cuba, 1; to Porto Rico, 5; to Mexico, 10; to United States of Colombia, 13.

PAPER, to Hamburg, 8 cs.; to Rotterdam, 34 pkgs.; to Liverpool, 2 cs.; to British West Indies, 205 rms.; to British Guiana, 500 do.; to British Honduras, 11 pkgs.; to Cuba, 25 do., 4,500 rms.; to Porto Rico, 7,326 do.; to Mexico, 4,000 do., 34 pkgs.; United States of Colombia, 40 pkgs.; to Venezuela, 518 rms.; to Brazil, Colombia, 40 pkgs.; to Venezuela, 518 rr 1,500 do.; Argentine Republic, 17 pkgs.

STATIONERY, to British Australia, 34 cs.; to Cuba, 5 cs.; to Porto Rico, 4 cs.; to Mexico, 3 cs.; to Vene-

Paper, reams	14,949	\$3,720
Paper, pkgs	236	7,420
Paper, cases	10	1,490
Books, cases	58	5,113
Rosin, bbls	1,456	8,858
Stationery, cases	51	1,292
Totals	16.755	\$22,893

General Merchandise, for the week ending
January 22, 1878.

Japer, &c., for the year ending May 25, 1875.

Japer, &c., for the year ending May 25, 1876.

Japer, &c., for the year ending May 29, 1877.

Japer, &c., for the year ending May 29, 1877.

Japer, &c., for the quarter ending Nov 27, 77.

Japer, &c., for the quarter ending Nov 27, 77.

Japer, &c., for the week ending Dec. 4, 1877.

Japer, &c., for the week ending Dec. 4, 1877.

Japer, &c., for the week ending Dec. 28, 1877.

Japer, &c., for the week ending Jan. 1, 1878.

Japer, &c., for the week ending Jan. 1, 1878.

Japer, &c., for the week ending Jan. 1, 1878.

Japer, &c., for the week ending Jan. 1, 1878.

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Japer, &c., for the week ending Jan. 1, 1878.

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NEW YORK IMPORTS.

FROM JAN. 18, 1878, TO JAN. 24, 1678, INCLUSIVE.

Rags, &c.
E. Storey Smith, Harvest Queen, Newcastle, 116

bs. rags. E. Storey Smith, C. Grinnell, London, 77 bs. rags: 48 bs. manilla. E. Storey Smith, Ailsa, Cardiff, IP bs. rags; 147 bs.

old rope. Lee & Sturges, by same, 24 bs. paper waste. Bulkley, Dunton & Co., by same, 86 bs. paper

J. W. Lyon & Co., by same, 36 bs. paper stock.

Lee & Sturges, by same, 165 bs. paper waste. Briggs & Taylor, by same, 37 bs. rags; 54 bs.

W. I. Clark, Utopia, London, 93 hs. paper stock. Campbell, Hall & Co., by same, 44 bs. rags. Briggs & Taylor, Canada, London, 4 bs. paper tock; 361 bs. manilla. John W. Mason & Co., by same, 62 coils old rope.

W. H. Parsons & Co., by same, 111 bs. paper

Lee & Sturges, Sir Robert Peel, London, 190 bs. rags, W. H. Parsons & Co., California, Glasgow, 78 bs.

paper stock. Hagemeyer & Brunn, Charlotte, Hamburg, 60 bs. paper stock; 18 bs. rags. O'Keenan & Sons, Somerset, Bristol, 82 bs. paper

zock. E. Storey Smith, by same, 199 bs. manilla. J. W. Mason & Co., Wyoming, Liverpool, 76 bs. old

rope. J. W. Mason & Co., Helvetia, Liverpool, 23 bs. old rope, W. Scott Murray, J. W. Pearson, Trieste, 78 bs.

Paper. C. T. Raynolds & Co., Canada, London, 2 cs. draw-

A. J. Fisher, by same, 1 cs. Merchants' Dispatch Company, by same, 5 cs. E. & H. T. Anthony & Co., Germanic, Liverpool,

C. K. Wilmer, by same, 1 cs. G. J. Kraft, Croft, Havre, 3 cs G. J. Kraft, Mosel, Bremen, 3 cs. P. Fannelly, by same, 11 cs. A. & C. Kaufmann, by same, 2 cs.

Hy. Bainbridge & Co., by same, 12 cs. writing. Kaufmann & Co., Wieland, Hamburg, I cs. L. de Jonge & Co., by same, I cs. E. & H. T. Anthony & Co., by same, 5 cs. L. de Jonge & Co., Wieland, Havre, 8 cs. L. Marcotte, by same, 1 cs. hanging

PHILADELPHIA IMPORTS.

Books.

J. B. Lippincott & Co., Illinois, Liverpool, 8 cs. Shaffer & Koradi, Sebastian Bach, Bremen, 1 cs. Soda Ash. Brown Bros. & Co., Illinois, Liverpool, 36 tes

Rosin. Order, Wyoming, Savannah, 125 bbls.

BALTIMORE IMPORTS.

Books. A. Schumacher & Co., Ohio, Bremen, 1 cs. A. Schumacher & Co., Ohio, Southampton, 4 cs.

Soda Ash. Order, Sardinian, Liverpool, 129 tcs C. F. Pitt & Sons, Newcastle, 323 cks. Soda Crystal.

C. F. Pitt & Sons, Serene, Newcastle, 1,371 cks.

BOSTON IMPORTS.

IMPORTATIONS of Paper Stock, Chemicals, &c., at Port of Boston, from January 18, 1878, to January 24, 1878, inclusive.

Books.
Little, Brown & Co., Siberia, Liverpool, 18 cs. Mass. State Library, by same, 1 cs. Schoenhof & Moeller, Massachusetts, Liverpool,

Colby & Rich, Marathon, Liverpool, 1 cs.

Boston Athenæum, Siberia, Liverpool, 10 cs. Paper.

Notman & Campbell, Istrian, Liverpool, 1 cs. C. Ried, Siberia, Liverpool, 5 cs. Hooper, Lewis & Co., by same, 1 cs, T. Groom & Co., by same, 2 cs. stationery.

E. A. Howland, Hecla, Liverpool, 1 ca. Boston Manufacturing Company, Massachusetts Liverpool, 3 cs. glazed. Wadsworth Bros. & Howland, by same, 1 es.

Dennison & Co., Bavarian, Liverpool, 5 cs Dennison & Co., Batavia, Liverpool, 2 cs. A. Schmidt, Liberia, Liverpool, 1 cs. musi

J. G. Hall & Co., Victoria, Liverpool, 140 bs.

M. A. Ring & Sons, Istrian, Liverpool, 35 bs. rope. . T. Lodge & Co., by same, 33 bs. paper stock. S. D. Warren & Co., by same, 14 bs. rags Train, Hosford & Co., by same, 124 bs. paper

M. A. Ring & Sons, Siberia, Liverpool, 113 bs. paper

H. L. Chase, by same, 16 bs. rags.
Knowles & Appleton, by same, 35 bs. rope.
Morey & Co., Bohemian, Liverpool, 14 tons paper stock.

Train, Hosford & Co., by same, 14 bs. paper stock; 150 bs. rags. S. D. Warren & Co., by same, 17 bs. rags.

Warren & Co., Massachusetts, 101 bs. paper stock. Train, Hosford & Co., by same, 292 bs. rags. Knowles & Appleton, Bavarian, Liverpool, 13 bs.

Fabbri & Chauncey, J. Wildred, Genoa, 110 bs. Caustic Soda.

W. H. Winslow & Co., Massachusetts, Liverpool, 7 drums. E. Hill, Bohemian, Liverpool, 50 drums.

Warren & Co., Massachusetts, Liverpool, 359 cks. E. Hill, Bohemian, Liverpool, 280 cks Morey & Co., by same, 760 cks

Bleaching Powder.

Bleaching Powder.

S. D. Austin, Istrian, Liverpool, 69 cks.

W. F. & F. C. Sayles, by same, 55 cks.

T. K. Cummings & Co., by same, 64 cks.

Wing & Evans, Siberia, Liverpool, 61 cks. Warren & Co., Massachusetts, Liverpool, 358 cks.

Venetian Red. Hobbs, Pope & Co., Siberia, Liverpool, 85 bbls.

S. D. Austin, Istrian, Liverpool, 62 cks. W. F. & F. C. Sayles, by same, 45 cks. Morey & Co., by same, 129 cks. Linder & Meyer, by same, 45 cks. Wing & Evans, by same, 71 cks.

Warren & Co., Massachusetts, Liverpool, 221 cks.

Morey & Co., Bohemian, Liverpool, 144 cks.

Hide Cuttings. T. Groom & Co., Bohemian, Liverpool, 71 bs.

China Clay. J. Henry Blanchard, Carroll, Savannah, 48 cks.

NEW ORLEANS IMPORTS

Soda Ash. Order, St. Louis, Liverpool, 128 tcs. Caustic Soda. Caustic Soda.
Order, St. Louis, Liverpool, 30 drums.
Order, Ennerdale, Liverpool, 175 drum
Hyposulphite of Soda. Order, St. Louis, Liverpool, 51 pkgs. Bleaching Powd

Order, Ennerdale, Liverpool, 27 tcs

IT will wash faster than any washer ever put before he public.
It requires only one instead of two in an engine for

washing rags, and washes much faster. Ir reduces expense of wire covering one-half.

Ir does not get out of repair, as it has lined bearings that are easily taken out and replaced with new ones at a nominal expense.

Ir can be adjusted to the amount of water at the It is self-lubricating. It will wash papers as fast as two common wash

ers, and with two in an engine they are invalu-It is the best arrangement for washing any kind of stock ever introduced.

The Washers, or further information, with testi-nonials, will be furnished by the

PATENTRE AND SOLE MANUFACTURES, J. T. EMERSON, Claremont, N. H.

of the CELEBRATED ENGLISH MAKE, Trade Mark, "Mill No. 682," White, Colored and Silver Tissue, manufactured expressly for Jewelers' and Silver-Platers' use; guaranteed not to tarnish or discolor the goods. FRED'K W. SMITH, 351 Canal St. N. Y.

STOUT, MILLS & TEMPLE



MANUFACTURERS OF THE

AMERICAN

Turbine Water Wheel.

GEARING & SHAFTING,

Rag Engines, Wood or Iron Tubs, RAG-CUTTERS, DUSTERS, Pumps, &c.

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

Large illustrated catalogue sent free an applica-STOUT, MILLS & TEMPLE,

DAYTON, OHIO.

ARE YOUR MILLS Fully Insured In SOUND Companies?

A prominent paper-maker writes:

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

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

We can Save you Money.

Blank surveys sent by mail upon application.

ANDERSON & STANTON

Insurance Brokers.

152 BROADWAY.

Geo. P. Rowell & Co.

CONDUCT AN AGENCY

FOR THE RECEPTION OF ADVERTISEMENTS FOR

AMERICAN NEWSPAPERS

8.000 NEWSPAPERS ARE KEPT REGULARLY ON FILE

OPEN TO THE INSPECTION OF CUSTOMERS. EVERY ADVERTISEMENT Is TAKEN at the HOME PRICE of the PAPER.

Without any Additional Charge or Comm Without any Additional Charge or Commission
An Advertiser in dealing with the Agency is saved
trouble and correspondence, making one contract
instead of a dozen, a hundred or a thousand.
A BOOK of one hundred and twenty pages,
containing lists of best papers, largest
circulations, religious, agricultural, class, political, daily and
country papers, and all publications which are specially valuable to
advertisers, with
some

INFORMATION ABOUT PRICES, IS SENT FREE to ANY ADDRESS OM APPLICATION.

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

FOR SUCH INFORMATION THERE IS NO CHARGE.

Orders are taken for a single paper as well as for a list.
For a single dollar as readily as for a larger sum. Office-Times Building, 41 Park Row,

And No. 10 Spruce St., New York. NATRONA POROUS

PAPER MAKERS' USE.

FREE FROM IRON AND FROM EXCESS OF ACID.

Two pounds of it will size as much paper as three pounds of Potash or Ammonia Alum,

Pennsylvania Salt Mfg. Co.

140 South Delaware Ave., Philadelphia. 212 Washington Ave., St. Louis, Mo. AGENTS:

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

WATERPROOF LEATHER BELTING

Expressly adapted to Paper Mills Oak Tanned Leather Belting, Hydraulic Packing Leather, Fulled Raw-Hide Lace Leather. MANUFACTURED BY

ANTON HEIM, 33 Ferry Street, New York.

SIBLEY MACHINE

NORWICH, CONN.,

Manufacturers of Modern Improved Paper Machinery,

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

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

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

aper Irade Journal.

DEVOTED EXCLUSIVELY TO THE INTERESTS OF The American Paper Trade.

Weekly, \$4.00 per annum. Single Copies,

NEW YORK: SATURDAY, JAN. 26, 1878.

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

THE JOURNAL contains the latest and fullest information relative to the paper trade in all parts of the world, including descriptions of new appliances and processes for making paper, experiments supply, with the latest manufacturing news in all of the country. It gives the cream of all the foreign technical journals which relate to the paper interest, besides communications from competent persons in the trade, both at home and abroad. 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 complete. Subscription and postage for Great Britain,

cription and postage for France, per

Subscription and postage for Germany, per

8 thalers Foreign subscribers may address our New York

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

cations must be addressed to

HOWARD LOCKWOOD,

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

TO CORRESPONDENTS. As THE PAPER TRADE JOURNAL is the recognized wehicle of communication in matters of trade interest, we will be glad to receive correspondence from all parts of the country. Information and suggest tion upon paper-making topics are especially valuable, and manufacturing news and personal items are equally acceptable.

Subscribers to THE JOURNAL CAN be supplied with

Some of the paper-makers, if, indeed, not all of them, have been making money. We do not assume that they have been turning over the surplus acquired in former years, although it is possible; but we note that several companies have been paying dividends to the shareholders. When ten per cent. returns are declared, the very obvious impression is that there is something to take it from. We congratulate those who are able to make such a showing, and beg of them to keep it up.

THERE is a good sign in the trade. It is remarked that many would-be buyers cannot fill their orders to the extent they would like to, and that dealers are using more care in limiting their sales. This shows that the lesson, although painfully learned, is beginning to work with practical effect upon the mercantile mind. A little more of this prudence and we shall find that, even if sales are smaller, credits will be narrowed, losses will become less frequent, and profits will not be lost in compromises.

THE first page illustration to-day is of a new paper cutting machine invented by W. P. Hill. This apparatus is specially intended to cut paper angularly and into diamond shaped sheets suitable for working into envelopes. It can, however, be used to cut square sheets of paper, in the same manner as other paper cutters, but is particularly designed for the first mentioned cutter is constructed seems to be well waste is likely to be effected in cutting envelopes from a sheet of paper.

THE newspapers and periodicals of the world are, outside altogether of their moral influence, of great importance in the industrial world. The total number of periodicals now published is certainly not under 23,000. Of this number upwards of 8,000 are published in this country. Germany turns out 3,700 publications of various kinds, but the number of periodicals appearing in the German language is estimated at 5,400. Berlin possesses 375 periodicals, of which 35 are dailies. Leipzig counts up 325, Dresden 85, Munich, Stuttgard and Breslau about 70 each. Vienna Glen's Falls, N. Y.

prints 400 papers and magazines. In the Austrian Empire there are some 1,200 papers and magazines, one-half of which are in German. Switzerland, with a small population and territory, counts up 450 periodicals, of which number 280 are in German, 130 in French, and the remainder in the Italian and Romance languages. Great Britain has 2,500 papers. London prints close on 900 newspapers and periodicals. There are no precise figures as to France, but Paris has 836 publications, among which are 51 daily papers. Italy has a larger number of daily papers than any European country, viz., 387-the total number of publications being 1,126. Russia has 500 publications: St. Petersburg prints 305. Turkey had only 75 papers and periodicals of all kinds in 1876-21 in French, 16 in Turkish, 13 in Armenian, and 12 in Greek. Roumania and Greece have each about 50 papers, &c. While there are yet improve ments to be made in the American and English press, it may be said that the press of all other countries is only yet in swaddling clothes.

THE annual circular of Dun. Barlow & Co. presents, as might be expected, some interesting figures as to the commercial situation during the year last ended. The failures were 220 less in number than for the year preceding, but the liabilities were barely half a million of dollars less. This, however, is not to be wept over. On the contrary, we must be grateful for even the smallest favors. There was a marked improvement in the mercantile status during the first nine months of 1877, and this preluded a hope that we were to make a better showing than has turned out. The closing quarter of the year made all the difference, and while the aggregate comparative liabilities had decreased by more than four and a quarter millions up to October 1st, the closing three months of the year brought up an array of failures that nearly turned the scale. Of course such a change when everything was moving hopefully could not but tend to disturb confidence and unsettle the idea that had begun to prevail as to the worst of our troubles being over. The authorities from whom we derive our figures say that the most "significant inference" to be gleaned from their tables is that "wherever there is the most money in circulation in proportion to those engaged in trade, there the failures are the most numerous." The deduction from this is that the "chief cause of the numerous failures is that too much money was available in the past," and that the startling failures in most cases were not of recent origin, but resulted from "departures from legitimate business principles in the time of inflation." There is no reason to question this view. The fact is patent, if people will only carefully review and compare the circumstances. The logic of the whole of this forces the conviction that much yet remains to be done to prevent failures. The moral features of business must be regarded or there will be no mercantile safety. It is plain that too many people fail to make money. and if those merchants who are disposed to deal honestly will commit themselves to stern and unrelenting procedure against every debtor upon whom the suspicion of dishonor can lie they will succeed in stamping out some of the noxious creatures who use. The principle upon which this paper infest trade. Compromises have been too agerly sought and accepted. Oppose then adapted to the purposes for which the ma- in the future. The country itself is on a chine is intended, and by its use a minimum good footing. Let care be taken to put trade upon the same plane.

Personals.

William McDonald is notified that there is a letter for him at Shiawassee, Mich.

Major Craig, at one time president of and anager for the Bath Paper Company, Bath, South Carolina, died recently at Columbia, S. C. Mr. Carpenter, of the Seymour Paper Company, sailed for Europe, on Wednesday last, on

In Town.

J. S. Ely, Norwich, Conn.; B. F. Williams, Phoenixville, Pa.; Mr. Mudge, Baltimore, Md.; L. C. Woodruff, Buffalo, N. Y.; D. Alexander, Ashley Falls, Vt.; D. B. Fenn, South Lee, Mass.; S. S. Rogers, Lee, Mass.; J. T. Emerson, Claremont, N. H.; T. Gilbert, Waterford, N. Y.; J. W. Wheelwright, Boston, Mass.; S. A. Parks,

Correspondence.

[Communications are solicited from everyone who of news, trade gossip, and personal information wil be gladly received. Correspondents are requested write only on one side of the paper. No responsibility for the opinions of correspondents attaches to this paper. Communications must be sent to reach this office by Wednesday night or Thursday morning, of each week, to insure insertion.]

Important to the Paper Industry.

To the Editor of The Journal:

Inventions and new discoveries, more or less practical, will never cease so long as the elastic ty of that subtle thing which men call mind holds supremacy; but even mind has its varied terminal points of power and practical application. Thus one mind conceives that a practical and valuable compound for a certain and specific purpose can be made, but fails to assign it a place where its utility will be felt for good. My own case may be one of this kind. I have a new. simple, cheap and sure process of making paper, after it is manufactured, perfectly impervious to water, and for any length of time.

Now for the practical application of this novel Will it open up new avenues for the onsumption of the products of the paper in-Will it introduce into the market for daily use a new and useful article for the prevention of waste of valuable material? utility is all that is valuable in the discovery.

The first and leading practical use of the process of preparing paper to resist water is, to my mind, found in a long-needed and cheap article for the vast rural districts for bay caps to preserve the farmer's newly-cut grass and his golden wheat shocks from injury from protracted or sudden rains while in the field. This process will effectually do this. Let a field of grass fall before the mower, and after one or two hours of sun shine upon this half-made hay, let it be well cocked up and one of these domed shaped caps drawn over each one, the farmer may snap his fingers to the weather reporter and say, "Do your worst, my hay is safe for the next six months." And When thus made in the cock the hay retains all the aroma of new-made hay, and no more burnt, bleached or musty hay need find its way to market if this process is observed. These paper domes, thus saturated and used, may be folded and laid aside for future years. In the fish market, at oyster stands, and in the grocery store this prepared paper will find universal us Other minds, more elastic and far-seeing, will mark out and plan the use of this paper in wider fields, and thus will be opened up new avenues for the consumption of paper. The articles are all made before going through the simple and cheap process. The paper thus prepared is more flexible and much improved thereby in its The "patent," as usual, is amply secured by application.

From the close imitation this new process has to some of Nature's more perfect work to ward iarly exemplified in the covering of some of the feathered organizations, I have thought it not inappropriate to give it the anomalous name of Gooseback paper"-that is, a paper equally potential to resist any injurious effect of that elenent of disintegration.

Should you, Mr. Editor, not regard this as a clever device to "sponge" an advertisement, and not throw it into the waste-paper basket, you may insert it in your columns for the benefit or ement of your readers. What next? Ad-J. M. SCRIBNER. vertisement and sales.

MIDDLEBURGH, January 12, 1878.

Failures.

J. Latham, publisher, Boston, Mass., has failed.

Leon Schaap, news dealer, Richmond, Va.,

H. C. Bagley, stationer, &c., Portland, Me., is reported failed.

L. W. Hall & Son, publishers of the Democrat, Ravenna, O., have made an assignment.

Leviston & McMeans, fancy stationers and ealers in notions, Richmond, Ind., have failed. E. A. Larned, dealer in fancy goods, station-

ery, &c., Geneva, N. Y., has made an assign Frank Sands & Co., printers, Lewiston, Me.,

nising at 20 cents on the are reported as compror C. L. D. Crockwell & Son, stationers and book

dealers, Council Bluffs, Iowa, are asking an ex-

F. M. Taylor, book dealer, &c., Maquoketa. Iowa, is offering to compromise, and has sold out his business.

The committee appointed by the creditors of Frothingham & Co., stationers, Boston, Mass., to consider the proposition of that firm to pay forty cents on the dollar, met Wednesday and agreed to reject the proposition. They will report the result of their deliberations to the remaining creditors, who will take further action

in the matter.

John G. Hodge, of the firm of J. G. Hodge & Co., San Francisco, Cal., arrived in this city on Tuesday, and submitted to the committee ap pointed by the Stationers' Board of Trade the proposition which he had spoken of, offering me time ago to pay fifty cents on a dollar in six, nine and twelve months' notes. At a meeting of the committee yesterday it was concluded not to recommend the acceptance of the proposition to the creditors, and nothing definite was

decided upon. The committee, composed of Geo. L. Pease Edmund McLaughlin, Gavin Houston and W. C. Horn, appointed by the Stationers' Board of of the Gray-Baker Book and Stationery Com-

itors that an extension should be granted on con dition that payments of ten per cent. of the amount due should be made on the first days of March, of May and of July respectively; payments of fifteen per cent, on the first days of October, of November and of January 1879 respectively; ten per cent. on March 1, 1879; and five per cent. on the first days of May, of July and of September 1879. Thus seventy-five per cent. will have to be paid during the present year and the remaining twenty-five per cent. during the year 1879. The conditions of this extension are that unpaid subscriptions to the capital stock shall be paid in, the expenses of conducting the business shall be reduced to ten per cent. of actual sales by reductions in salaries and rent; that if payments are not made promptly all the notes hall be considered due, and the concern may be closed under an assignment for the benefit of the creditors; that the stock shall be reduced to \$30,000 before September 1, 1878; that the chattel mortgage now on the concern shall be imme diately canceled, and no new mortgage be given: that \$3,500 now due Judge Newcombe be paid within four months: that a committee be appointed to see that affairs are conducted in the nanner prescribed; and that all statements relating thereto shall be made under oath to the Stationers' Board of Trade. The firm's affairs are declared to have been found much mixed, and conducted in a loose and unbusiness-like manner; that their expenses were extraordinary; that several thousands of dollars of subscribed stock remains unpaid; and that until recently there has existed a constant conflict between the officers and managers of the company.

Chattel Mortgages.

NEW YORK CITY. Mortgagor, Mortgagee. Amount. W. B. Bromeil, 88 Walker st. J. M. Conner's SonsJ. Laing....

Edgar Hoyt, 58 Maiden lane...H. L. Crane....... William Moore, 648 B'way....Degener & Weller. ...1.500

BROOKLYN. Henry M. Gardner, Jr., Jorale-

. Geo. Hudson.....800 mon and Courts sts........ Geo. Hudson..... ohn S. Murphy, 317 Smith st.Thos. Taylor..... NEW JERSEY.

Rodney Chipp, Newark ... Samuel Phillips, Paterson

EASTERN STATES. G. H. Ellis, Boston, Mass. . . . R. Hoe & Co. 3,500

WESTERN STATES.

 Edward Keogh, Elgin, III.
 .375

 Osman & Hapeman, Ottawas, III. (R).
 .1,000

 Charles L. Berner, Chicago, III.
 b.
 .1,000

 Cashman & Stevens, Chicago, III.
 .280

 B. S. Heath, Pekin, Ill. John Regan, Pekin, Ill.1,000 M. Hummel, St. Paul, Minn ...

Changes, Removals, and New Firms.

George Wooley, stationer, Waltham, Mass.

M. S. Hunt, printer, Manchester, N. H., has sold out to A. J. Hoyt.

G. W. Lowery, stationer, &c., Geneva, Neb. has sold out to John A. Dempster. P. D. Wolfenberger, stationer and book dealer,

Princeton, Ill., is closing up his business. Alfred Hindle, news dealer, Wilmington, Del.

has been succeeded by Mrs. Annie E. Green George J. Titus & Co., printers, Chicago., Ill.,

have dissolved partnership; George J. Titus con-

A. W. Lang & Co., printers, Hartford, Conn. have dissolved partnership. Finlay Brothers Edward J. Pennypacker, publisher of the Pen

dleton News, Franklin, W. Va., has removed to Monterey, Va. J. M. Hopsen, printer and publisher of the

Valley Index, Waterbury, Conn., has sold out to Isaac A. Mattoon.

L. Waldenberg & Co., fancy stationers and dealers in notions, St. Louis, Mo., have dissolved partnersnip; M. Evans succeeds.

John C. Yorston & Co., publishers' agents, Cincinnati, O., have sold out to J. C. Yorston. The firm name remains unchanged.

Chamberlin, Whitmore & Co., 41, 43 and 45 Beekman street, have secured additional room, to be occupied February 1, for the better arrange ment of the new and improved machinery which they are putting in.

Dunning & Sawyer, books, stationery, drugs, ., Allegan, Mich., have dissolved partnership, Mr. Sawyer retiring. H. M. Dunning, who has been in the same line of business, has united his stock with that of the remaining member of the late firm, and the style of the new house will be Dunning Brothers.

It is expected that the St. Gothard tunnel will be completed in the spring of 1880. Its success-Trade to inquire into and report upon the affairs ful accomplishment is now believed to be simply a matter of expense, as the chief engineering pany, St. Louis, Mo., have reported to the cred- difficulties have been overcome.

An Open Letter.

DAYTON, O., January 17, 1878. Union Bag and Paper Co., Chicago, Ill., GENTLEMEN-In your last issue, we notice our name among those charged with bad faith toward the late "Straw Board Association."

We object to this for a number of reasons, among them the following: We were not members of said association, and under no promis or agreement to observe its prices in the sale of our goods. In the second place, the price fixed by the association was \$2.50 per ton less than our goods were bringing readily in the same market, and we were frequently annoved here in the West by quotations to our customers of Association prices."

The statement that Mr. Jaeger, of New York, sold fifteen tons of our board at \$48 9-10 is simply false. He never had that quantity on hand at one time. And those who know Mr. Jaeger are not disposed to believe he would sell boards at less than cost. Besides, he has recently given in THE PAPER TRADE JOURNAL his personal denial of the same.

At the time of its organization, and repeatedly during its short life, we were solicited to cast our lot with the association, and by its President threatened with annihilation if we did not come into the fold," but our reply was uniformly that we had no faith in it, and should wait until its members gave evidence they were living up to its requirements, and we stated in a letter to Mr. Faurot that when satisfied on this point we should change our prices in the East to correspond with those of the association, and not before

As to whether our course in the matter is justifiable or not from the facts in the case, we simply refer your readers to the President's own confessions. Very respectfully C. L. HAWES.

Newspaper Intelligence.

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

NEW NEWSPAPERS.

WEEKLY.	Size.
lenicia (Cal.) New Era	23 × 32
alistoga (Cal.) Independent Calistogian	22×31
nita (Iowa) Times	24 × 35
odge City (Kans.) Ford Co. Globe	
candia (Kans.) Republican Co. Journal	22×31
ew Orleans (La.) New Era	22 × 32
altimore (Md.) Saturday Night	
onaconing (Md.) Valley Times	25×40
Vakefield (Mass.) Reporter	
irmingham (Mich.) Post	28 × 44
rand Rapids (Mich.) Enquirer	
lancock (Mich.) Lake Superior News	24×36
fuskegon (Mich.) Journal	26×40
orthport (Mich.) Leelanau Enterprise	20 × 26
turgis (Mich.) Independent	
MONTHLY	

Tuscaloosa (Ala.) Southern Law Journal, 8vo., sapolis (Minn.) Ariel...... 9×12

ENLARGEMENTS. The Appeal, Leavenworth, Kan., has enlarged to The Daily Gazette, Elmira, N. Y., has enlarged to

27 × 41. The Independent, Harrisburg, Pa., has enlarged to

CHANGES. The Golden Dawn, San Francisco, Cal., has merged nto the Mission Mirror.

The Hejmdal, Chicago, Ill., has changed to sixteen

pages, 13 × 17. The News, Olney, Ill., has changed to four pages.

The Independent, Milford, Ind., has moved to The Presbyterian Weekly, Baltimore, Md., has

changed to eight pages, 28 × 44. The Camp Journal, Lewiston, Pa., has changed to the Everybody's Ledger and Home Magazine, sixteen pages, 31 × 44.

Bentley's Book Buyer, Philadelphia, Pa., has

changed to Robinson's Epitome of Literatur City Journal, Scranton, Pa., has changed to ne Journal.

The Vermont Gazette, Bennington, Vt., has changed

to a semi-weekly publication.

CONSOLIDATIONS.

The Horry News, Conwayboro, S. C., has consolidated with the Georgetown Comet under the title of the Georgetown Comet and News.

Improvement in Rag-Washing Machines for Paper-Making. Frank A. Cloudman, of Cumberland Mills,

Maine, has patented a new rag-washing me which is designed as an improvement in the interior construction of cylinders of rag-washing engines used in paper manufacturing. It con of spiral buckets that extend sists of a number from the circumference toward and slightly past the central outlet, terminating at their inner edges in angular flanges. The buckets are also inclined toward the longitudinal axis, from the rear toward the front, and made of a cor tinuous piece of wood, as preferable to metallic buckets. He employs a cylinder washer as used in the

manufacture of paper in rag-washing engines. The periphery of the cylinder is covered with wire-cloth, in the usual manner, to admit the water but exclude the rags.

The cylinder is arranged at the inside with a number of curved buckets, that extend in a spiral from the circumference toward and slightly past the central outlet.

This cylinder is revolved by a central shaft, secured to its rear end or head, and, by radial arms, to a cylindrical casing around the central outlet of the front head.

The inner edges of the buckets terminate in flanges, placed at right angles thereto, so that cannot flow from one bucket into the one next following until the latter has left the water-line of the tub, or, in other words, has ceased to dip water for that revolution of the cylinder. The buckets are also secured to the cylinder at an angle of inclination to the longitudinal axis of the cylinder from the rear head toward the outlet. This inclination of the buckets allows the water to pass off freely as soon as it has reached the level of the bottom of the outlet, and allowing none to be lifted higher than the centre.

In the elevation of each bucketful of water to the outlet a portion of it flows past the centre of the shaft and counterbalances a portion of the weight due to that on the outside. It is claimed by this means the volume of water is not only lifted to a lesser height, by reason of the peculiar form of the buckets, and their inclination toward the outlet, but that it is also lifted more directly, or by a shorter line, than by any other washing device now in use, so as to require, consequently, less power.

The spiral buckets are preferably made of one continuous piece of wood, which is sawed in the same manner as the wood for carriage and sleigh bodies, from the periphery of the log.

Such wooden buckets are said to be superior to metallic buckets, as the action of chemicals thereon is not injurious to the bucket and to the The use of such single-piece wooden buckets is claimed to add greatly to the value of the cylinder for rag-washing engines, and forms an essential feature of this improvement in cylinder washers.

The claims under which the inventor has secured his patent are:

1. A cylinder washer for rag-washing engines having spiral interior buckets extending from the circumference to the central outlet.

2. A cylinder washer for rag-washing engines, having spiral interior buckets extending from the circumference toward and slightly past the central outlet, the inner edges of said buckets being flanged.

3. A cylinder washer for rag-washing engines having spiral interior buckets extending from the circumference toward and slightly past the central outlet, and being secured at an angle of inclination from the rear to the front head.

4. In cylinder washer for rag-washing engines, a spiral interior bucket made of a continuous single piece of wood.

General Notes.

Don't judge a man by his family connections for Cain belonged to a very good family.

A Cleveland (Ohio) paper reports that a meet ing of paper manufacturers was held at the Kennard House, in that city, for the purpose of settling the question of freights and the handling of stocks so as to establish an equality of prices between different manufacturers. A number of firms were represented, and it is said an understanding was arrived at regarding a certain uniformity of freight to the consumers. This meeting was an adjourned session from that held at the Palmer House, Chicago, on November 9. The meeting adjourned to reassemble in Buffalo on the first Wednesday in April.

A robbery of bonds lately took place from a Paris printing office, while they were in course of printing. The thieves, one of whom was employed in the establishment, attempted to sell them in Paris and in London. The bonds, at the time they were stolen, were incomplete, as they lacked the numbers and stamp, which fact was unknown to the culprits, and finally led to their arrest. Apropos of this, it may be mentioned that a new plan of numbering has been recently submitted to the directors of the Bank of France. The principle of it is as follows: The numbering is effected simultaneously, front and back, and, at the same time, a stamp forces the figures in relief on the paper. A double set of dies, one in relief and the other sunken, secures this result. The moving of the figures of the die, or stamp, is effected by a key, in front of which an indicator shows the figures collected, before the numbering operation takes place.

Foreign Notes.

The trade of Holland, as represented by the numbers of papers and printing matter passing through the post, according to the "Nederland-schen Almanack," for 1878, just published, was, in 1876, 33,000,000, which is an increase of 10 per cent, on the previous year.

The new Chamber of Deputies counts among its members three paper manufacturers. The single printer who offered himself for election failed to get a seat, though scoring a respectable number of votes. On the other hand, as a sort of compensation, journalism is very strongly

The "Annuaire de la Librairie" for 1878, published by the Cercle de l'Imprimerie et de la Librarie, will be issued in the course of the month of April. The Cercle has come to the decision to add, at the end of the volume, an alphabetical list of the publishers, printers, paper manufacturers and paper merchants, in the various departments, with their addresses. M. Blanchot, the director of the Cercle de l'Imprimerie et de la Librairie, will again edit the new edition of this useful Annuaire.

On the literary production of Austria, from 1870 to 1876, the Statistichen Monatschrift brings the following: In the year 1870 there appeared in Austria 678 periodicals, which number increased in the following years to 757, 835, 866, 810, and in 1875 reached as many as 876. Among these were included 293 political, 843 politico economical, 64 agricultural, 53 professional and technical, 10 military and marine, 20 medical and natural philosophy, 11 law and jurisprudence, 29 theological, 69 scholastic, stenographic and juvenile books, 67 historico-literary journals, 38 theatrical, art, &c., 63 belles lettres and humorous, 76 non-political gazettes, 40 commercial and advertising. Regarding the editions of periodical papers, the number of copies in 1870 vere 78,440,290; in 1871, 78,206,923; in 1873, 82,770,029; in 1873, 89,761,260; in 83,590,025; in 1875, 83,114,384. regard to the book-trade, the languages of the works published are as follows: In 1870, 1,271 German, 11 Italian, 652 Czech-Slavish and 213 Polish works; in 1876, the figures were-1,902 works, 142 art, and 800 musical periodicals.

SPECIAL NOTICES.

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

TO PAPER MANUFACTURERS.

Having recently accepted the agency of a new pro for the manufacture of Wood Pulp (Mechan ically), I am prepared to negotiate for the issuing of licenses to all wishing to enter into the business.

PATENTS.

I am prepared to make arrangements with inven-tors or owners of patents relating to Paper-Making Machinery, or Processes for negotiating the sale of licensing of the same. Having special facilities for di-rectly communicating with Paper Manufacturers and Capitalists, I am in a position to handle such business successfully. Circulars with full information furnished on application. Address

EDWARD CONLEY, 74 Duane Street.

Market Review.

OFFICE OF THE PAPER TRADE JOURNAL, FRIDAY EVENING, January 25, 1878.

THE MONEY MARKET.—The money mar ket has worked easily during the greater part of the week with 3 to 4 per cent. as the ruling rates for call loans. In the early dealings a few transactions took place at 6 per cent. In discounts prime mercantile paper continues to be quoted at per cent. to 7 per cent.
Government Bonds were generally steady, the

only change being an advance of ½ to ½ per cent. in 6's of 1881, 10-40's, and new 5's and a decline of ¼ per cent. in new 4's,

The gold speculation was weak throughout the week and values were drooping. The price declined to 10114, the lowest figure touched since The rates on gold loans were 4 to 5 per cent. for carrying. The following are the

_		Opening.	Highest.	Lowest.	Closing.
Jan.	19	1017/8	1017/6	10134	10134
	21	10134	10134	10152	10152
	22	10158	10134	10116	10156
	23	1015%	10154	10132	101%
	24	10138	10216	10182	10116
	95	10112	10112	10182	10182

The posted rates for bankers' Sterling are to-day \$4.81½ for 60-day and \$4.83½ for sight, and the market is dull. The following are the rates to-day: Sterling, 60 days, \$4.81\frac{1}{2}; sterling, sight, \$4.83\frac{1}{2} to \$4.83\frac{1}{2}; cable transfers, \$4.84\(\frac{1}{4}\) to \$4.84\(\frac{1}{2}\); commercial sterling, prime long, \$4.79\(\frac{1}{4}\) to \$4.80; commercial sterling, good long, \$4.78 to \$4.79; Paris, bankers', 60 days, \$5.22\% to \$5.20\%; do. sight, 5.18% to 5.18%; Antwerp, bankers', 60' days, 5.23% to 5.21%; do. sight, 5.18% to 5.17%; Swiss, bankers', 60 days, 5.211/4 to 5.20; do. sight 5.181/8 to 5.161/8; Reichsmarks (4), bankers', 60 days, 941/4 to 94%; do., sight, 951/4 to 955/4; Guilders', bankers, 60 days, 391/4 to 40; do., sight, 401/4 to 40%.

THE PAPER TRADE.—The market for Fine Writings shows very little improvement, and transactions are few and prices are not what might be desired. Fine Loft Dried and Enginesized continue to show signs of weakness, but a firmer tone is manifested in Superfine Loft Dried Flats. Book Papers are in tolerably fair request and the movement is moderate and regular. Prices do not indicate any perceptible falling off, but the market lacks the firm tone of a season of genuine activity. Ordinary Calendered Book shows rather more promising signs than Super-Sized and Calendered, which are in somewhat less request than a week ago, although some purchases have been made of comparatively large quantities at previously quoted figures. Superfin All-rag Book is scarce and prices are firm altho-

the call is limited, the tendency being to poorer qualities even by those who have had the reputation of making choice selections. Ordinary Wrapping Manillas are in limited request and values are modified frequently to meet the views of desirable purchasers. Pure Manillas with no wood in their composition are in very light stock and little sought for. They com-mand good prices. Straw Boards are selling at somewhat lower prices. Sales have occurred of Air Dried State at \$48 per ton and of Pennsylvania at \$53 per ton. Binders' Boards are unchanged and prices are firm in connection with a moderately steady demand. Straw Wrappings have been a trifle firmer during the past week and there has been more inquiry. Prices, how ever, range low, and the market is hardly in a quotable state. News Papers are weak and the market lacks tone. It is reported on good authority that the Sun, which usually buys hirty days' supply, and has been paying has contracted for quite a large quantity at 71/4c. The market is in the favor of buyers, and values are hardly as firm or as high as a fortnight ago.

JUTE BUTTS.—The market for Jute Butts is strong at 2 13-16c. cash and 2%c. time on the spot with a very small demand from the paper trade. Sales during the past week of 400 to 500 bales at quotations; 2%c. cash have been offered for round lots and been refused. Holders are very firm for new arrivals, and 2%c. to 2 13-16c. gold are asked. The only arrival has been the Cartsburn with 2,150 bales, of which all but 1,500 are sold to consumers. The Calcutta market continues high and we presume the crop will turn out a small one. The consumption will decrease with advanced cost.

FOREIGN RAGS AND PAPER STOCK .-The market is steady and prices are firmer, but still little business is transacted; few new contracts have been made, owing to the divergence between the views of holders and would-be purchasers, and trade is stagnant. Stocks are very light and few importations are being made. Linen Rags move slowly at former figures. Waste Papers are nominally unchanged, but German, 19 Italian, 369 Czech-Slavish, 323 Polish | there are few transactions to establish actual values. The importations of Baggings are very

light and the continued and increasing firmne of Jute Butts causes holders to remain firm in their prices, refusing to yield to lower bids, and thus little is doing. The arrivals for the week foot up 541 bales Rags, 753 bales Old Papers, and 936 bales Manillas. We note sales of 100 bales P. P. Leghorns on private terms.

DOMESTIC RAGS.—There is a trifling better ondition of affairs to note in this market. The stagnation in foreign stock produces its effect upon the domestic article, and the increasing denand during the week has been for Good Packings, which are somewhat firmer and held at slightly advanced figures. Even moderately Poor Packings have felt the stimulation of the mproved search and considerable movemen has taken place in medium qualities. Among the sales are 300 bales Good City Seconds at 21/cc. 60 bales City Whites at 51/2c.

OLD PAPERS.-There is a regular steady call for certain grades of Old Papers at prices which have not varied for the past fortnight, while Old Newspapers, Broken News and Letters are in small request, exchanging owners at very low prices. Ledgers and Heavy Book stock bring fair prices and sales include 15 tons Ledger stock at 3%c.; 50 tons Heavy Book stock at

BAGGINGS.—The market is decidedly firmer although transactions are very few. Those that have occurred, however, show an improvement in prices. Holders will not yield, giving as a reaon the continued high prices of Baggings abroad, the increased firmness of Jute Butts, and the advance in freights to London which took effect a day or two ago. As a consequence there is very little stock coming forward, and the market is very light. Holders ask 2%c. to 2%c. for No. 1 Baggings, at which figures sales occurred of 50 tons. Purchasers are offering 2½c. and 2½c., but in vain. No. 2 Gunny Baggings are in somewhat larger stock, and a better under-standing prevails. Quite a number of transactions have occurred at 2c. We hear of sales of 100 tons No. 1 Manchester Bagging at 2.72½c.; 75 tons No. 2 Gunny Bagging at 2c. to 2%c.; 30 tons Manilla Rope, 31/4c. to 35/4c.

WGOD PULP.—There is little to say about this market. Quite a number of tons of Wood Pulp have been sold this week at the regular price, 3½c., and the purchasers of material made by persons outside the combination, are expressing dissatisfaction with some of the material, which they declare to be of inferior quality, and for which they paid 3c. per lb.

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

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

CHEMICALS.-There have been few changes in this market during the week, and sales have occurred of 250 casks Bleaching Powders, at 1.52½c. urrency; 150 tons Soda Ash, at 1.85c. gold; 50 drums Caustic Soda, 60 per cent., at 4.15c. gold; 100 tons Sal Soda at 1½c. gold; 100 barrels Lump Alum at 2%c. currency; 100 barrels Ground Alum at 21/2c. currency; 75 barrels Potash Alum at 21/2c. currency; 40 tons Concentrated Alum at 256c. currency; 100 barrels Natrona Porous Alum at 31/sc. to 31/sc. currency; 50 tons Aluminous Cake at 2%c. currency.

COAL.-The combination having been con-

mated, the prices of both Anthracite and aminous have been advanced 50 cents per on. The endurance of the compact, however, is a subject which is considered by all persons interested. Concerning the prospect Saward's Coal Trade Journal says: "The price has been pitched too high for the condition of trade, and therein lies a mistake on the part of those having coal which they desire to sell. The high range of prices that appears to be determined upon, if we may take the present as a criterion, will have a most disastrous effect upon this in-They will lose a proportion manufacturing trade that will go on to bituminous coal; a proportion of the increased domestic trade that was not so particular when prices were low; the increased trade to the West, entirely due to low prices. Should the Canadas put on a duty on our coal, this, with the higher rates, would check trade in that direction. Therefore, it behooves those having the trade in charge, to weigh carefully all these points, or the proposed twenty million tons may be even more than the market will take." The quo tations at tide-water are: Lump, \$3.75; Stove \$3.75; Broken, \$3.50; Chestnut, \$3.25; Egg, \$3.50;

NEW YORK MARKET.

PRICES CURRENT.

Pea, \$2.75.

PRICE.

Paper Market.

PRILERS SELLING PRICES.

Flat Caps and Ledger, 1st class ... \$0.34 \$0.30

Flat Caps and Ledger, 2st class ... \$0.24

Flat Caps and Ledger, 2st class ... \$0.34

Flat Caps and Ledger, 2st class ... \$0.34

Flat Caps and Folios ... \$0.35

Blotting, American ... \$0.36

Blotting, English ... \$0.36

Blotting, English ... \$0.36

Book, super-sized and calendered ... \$0.36

Book, super-sized and tinted ... \$0.36

Book, extra machine finish, low grade ... \$0.36

Book, extra machine finish, tinted ... \$0.36

Book, extra machine finish, tinted ... \$0.36

Book, good quality, all rag ... \$0.36

Book and \$0. Book, super-sized and calendered .
Book, extra machine finish, low gra.
Book, extra machine finish, tinted.
Book good quality, all rag. Book, good quality, all rag. Book, good quality, all rag. tinted.
Book, No. 1, Shavings & Imperfection.
Book, No. 2, Shavings & Imperfections.
News, rag and wood.
News, straw
tews, Common.
langing, Su. 13 13 11 10 8 8 714 16

					-
Colored Papers, Double Mediums. Colored Papers, Glazed Mediums. Colored Papers, Tobacco. Colored Papers, Trisaues, 39 × 30, § ream. White Tissue, 39 × 30, § ream. White Tissue, 39 × 30, § ream. White Tissue, 49 × 36, § ream. Manillas, Flour-sack, cream. Manillas, Flour-sack, drab. Manillas, No. 1, light weight. Manillas, No. 1, light weight. Manillas, Ordinary Wrapping Manillas, No. 2 Manillas, No. 3 Tissue Manillas, foll count, weight and size, 11 × 15, other sizes in proportion	101/4@ 13 % 10 % 1.50 %	1116 15 11	Imperfections. White Shavings. Colored Papers. Printed Papers. Writing Papers.	394@ 4 @ 294@	4 414 214 214
White Tissue, 29 × 36, p ream. White Tissue, 24 × 36, p ream. Manillas, Flour-sack, cream. Manillas, Flour-sack, drab. Manillas, Rope, unbleached.	1.20 @ 1.70 @ 121/2 @ 10 13 111/2 @ 111/2 @	1314 1134 1316		gs. 614@ 594@	834
Manillas, No. 1, light weight	10 6 9 @ 8 6 6 6	1012 914 814 7	P P, No. 1 Linens S S, No. 2 Linens T T, No. 3 Linens P, No. 1 Cottons S, No. 2 Cottons T, No. 3, Cottons T, No. 3, Cottons R, Linen stripes R, ordinary stripes R C	5 @ 514@ 314@ 294@	3
Manillas, Bogus. Tissue Manillas, full count, weight and size, 11 × 15. other sizes in proportion Hardware, light colored	4 @ 22 @ 12 @	88	R R, ordinary stripes R C C B C C B C C C C C C C C C C C C C C	234 (0 234 (0 234 (0 3 4 (0 3 4 (0)	8 8
Hardware, No. 2, glazed Hardware, No. 2, glazed Binder's Boards, \$\(\foats\) to Straw Boards, air-dried, 150 sheets, \$\(\pi\) tn	816@ 714@ 85.09 @ 10 50.00 @ 6	9 8 00,00 0,00	Alexandrin Rags.	214 @ 214 @	37
size, 11 × 15. other sizes in proportion Hardware, light colored Hardware, No. 1, glazed Hardware, No. 2, glazed Binder's Boards, \$\foatint{\text{taw}}\$ to an expectation of the straw Boards, air-dried, 150 sheets, \$\foat{\text{taw}}\$ to make Boards, air-dried, 150 sheets, \$\foat{\text{taw}}\$ to make Boards, air-dried, No. 1, \$\foat{\text{to}}\$ to Straw Boards, air-dried, No. 1, \$\foat{\text{to}}\$ to Straw Boards, air-dried, No. 1, \$\foat{\text{to}}\$ to Straw Boards, steam-dried, No. 2, \$\foat{\text{to}}\$ to Straw Boards, steam-dried, No. 2, \$\foat{\text{to}}\$ to Straw Boards, air-dried, Penn, \$\foat{\text{to}}\$ to Straw Boards, air-dried, Penn, \$\foat{\text{to}}\$ to Straw Boards, air-dried, State, \$\foat{\text{to}}\$ to Straw Boards, \$\foat{\text{to}}\$ to Straw Boards, air-dried, State, \$\foat{\text{to}}\$ to Straw Boards, air-dried, State, \$\foat{\text{to}}\$ to Straw Boards, air-dried, State, \$\foat{\text{to}}\$ to Straw Boards, \$\foat{\text{to}}\$ to State, \$\text	50.00 @ 6 55.00 @ 6 50.00 @ 5 — @ 5	0.00 5.00 5.00 5.00	Whites Blues. Colors. Memel Rags.	214@ 214@	22
Straw Boards, steam-dried, No. 2, ton Straw Boards, steam-dried, No. 2, State, 2 ton Straw Boards, air-dried, Penn, 2 ton Straw Boards, air-dried, State, 2 ton	47.50 @ 5 50.00 @ 5	5.00	Memel Rags. SPFF SPF FF FG FG FF FF FF FF	5 6 4146 4146	514 414 425
Straw Wrapping, basis, 15 × 20, 10 m, 20 sheets— 36 × 40	1.18		SPF. Trieste Rags. SFF. SFX	534@	536
36 + 40 30 + 40 24 × 36 22 × 32 30 × 30 18 + 32 18 × 38	75 @ - 70 & - 46 & - 38 @ -	55	DF D	546 - 0	6.
18 × 28 18 × 26 15 × 20 14 × 18 13 × 18	40 @ 45 @ 20 @ 20 @ 20 @ 20 @ 20 @ 20 @ 20 @ 2	50 30 21	S P F F S P F F F F F F F F F F F F L F B Japanese Rags. Whites Blues	4%@ 4%@	452
	23 65 13 66 2360	25 17 294	Chemicals Coloring Materi	2140 2140 als, &c,	294
11 × 15 Straw Wrapping, ₩ fb. Tea Papers, 16-sheet quires— 12 × 18 14 × 20 Woolen Rags.	85 GB 45 GB	40 50	Alum, lump	2440 3140 2440 2440	3%
Comforter Stock. White Woolens Blue Grey Stockings White Stockings	13 @ 131/4@ 11 @ 18 @	12	Bi-Chromate Potash, Scotch, currency	14 @ 14 @ 1.50 @	1.60
Reds, old. Reds, new Shirt Clippings	8 @ 10 @ 23 @ 714@	26 814 712	Bi-Chromate Potasa, American, cury Bleaching Fowders, currency Caustic Soda, 60 per cent. gold Clay, China, English, per ton, gold Clay, China, English, to arrive, per ton, gold Clay, South Carolina, per ton. Clay, Terra Alba English per ton. Clay, Terra Alba, American, per ton. Coppersa, American.	18,00 @	20,00
White Stockings Blue Flannels Reds, old. Reds, new Shirt Clippings. Mixed Softs, free of Carpets Seamed Cloth Skirted Cloth Light Skirted Cloth. New Dark Clips New Hlack Clips New Hlack Clips New Blue Clips New Blue Clips New Blue Clips New Felts New Felts New Felts New Felts New Fence Shirt Cuttings	4 66 5 66 10 66 14 66	414 514 15	Clay, Terra Alba English per ton	15,00 @ 15,00 @ 19,60	30, 30 18,00
New Hlack Clips New Blue Clips New Felts New Fancy Shirt Cuttings	16 @ 18 @ 814@ 12 @	4	Prussian Blue, dry. Prussiate Potash, American, currency Orange Mineral, gold Rosins, common strained, per bbl	24 @ 10 @ 2,10 @	2.50
New Fancy Shirt Cuttings New Fancy Linsey Cuttings New Satinets, clean stock Seams and Satinets Delaines, stripped for extract	240	294 294	Rosins, good s rained, per bbl Rosins, low, N > 2, per bbl Rosins, good, fo. 2, per bbl Rosins, low, No. 1, per bbl	2.15 (a) 1.30 (a) 2.40 (a)	2,60 2,70 2,80 8,00
Black Shoe Lastings Blankets. Wool Carpets. Mixed Carpets White Linseys	4 6	114 414 114	Rosins, pale, per bbl. Rosins, extra pale, per bbl. Sal Soda, gold.	8.50 5.00 0	8,75 6,00 1,40
Mixed Linseys Rags, Rope and Bagg' White Shirt Cuttings, No. 1 White Shirt Cuttings, No. 2	ing.	816	Clay, Terra Alba, American, per ton. Coppersa, American. Extract Logwood, currency Prussian Blue, dry. Prussiate Potash, American, currency Orange Mineral, gold Rosina, coomnon strained, per bbi. Rosina, good or sained, per bbi. Rosina, good of sained, per bbi. Rosina, good, fo, 2, per bbi. Rosina, good, fo, 1, per bbi. Rosina, pale, per bbi. Rosina, good, fo, 1, per bbi. Rosina, pale, per bbi. Rosina, per bbi. Rosina, per bbi. Rosina, por bbi. Rosin	1.85 @ 94@ 70 @ 116@	1146
Unbleached Muslins City Whites New Canton Flannels	53400	616 6 584 512	Sulph 1ric Acid, 60 degrees	1140	90
New Cotton Strips, agnt	4140	494 314 6	Ultramarine, gold Venetian Red, American Venetian Red, English Vitriol, blue, currency Yellow Ochre, gold.	20 @ 	196
Linen Canvas. Country White Rags Country Mixed Seconds (City)	51/4@ 54/4@ 8 @ 21/4@	594 634 236	BOSTON MARK	ET.	2.4
Seconds (City) Extra. Colors, per 100 B Manilla Rope. Manilla Rope. tarred	50 @ 314@ 274@	1.00	Paper Stock. Mill Assorted Whites	5760	614
Hemp Pope	41200	8	Cotton Conver No. 9	02968	
Hemp Rope Gunny Bagging, No. 1 Gunny Bagging, No. 2 Kentucky Bagging Burlan Bagging	41400 21400 21400 5 00	5 836 8 534	Cotton Canvas, No. 2 Gunny Bagging, No. 2 Kentucky Bagging Hard Woolens, old	3446 1446 4146	234
Hemp Rope Gunny Bagging, No. 1 Gunny Bagging, No. 2 Kentucky Bagging. Burlap Bagging Tar Shakings Hemp Twine Stock Jute Waste Shavings and Old Pan	4120 2140 2140 2140 3740 4140 1140	5 836 8	mill Assored Writes Cotton Canvas, No. 2 Cotton Canvas, No. 2 Gunny Bagging, No. 3 Kentucky Bagging, No. 2 Kentucky Bagging, Hard Woolens, old. Boft Woolens, old. Hard Woolens, new Jute Butts. White Collar Cuttings	3446 1446 4146 10 6 8746 10 6 3346 5 6	11 9 - 6
Cotton Canvas Linen Canvas Linen Canvas Linen Canvas Country White Rags Country White Rags Country Mixed Seconds (City) Second	51600	5 334 534 2 5 6 5 6	Cotton Canvas, No. 2 Gunny Bagging, No. 2 Kentucky Bagging. Hard Woolens, old. Boft Woolens, old. Hard Woolens, new Just Butts. White Collar Cuttings White Envelope Cuttings Hard White Shavings, No. 1 Soft White Shavings, No. 1 White Shavings, No. 2	37440 11440 41400 10 60 81400 5 60 6 6 6 4460 41400	4 334 5 136 11 9 6 636 636 636
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Prussiate Potash, American	23 63.	os
Rosin, common strained, & bbl		917
Rosin, No. 2	9146	09.7
Dools No. 1	274 (0)	~78
Rosin, No. 1	217	0.00
Rosin, pale	1 000	1.50
Rosin, extra pale	1.00 %	
Sal Soda, N. C., W D, gold		1.20
Sal Soda, American, currency	136@	136
Soda Ash, gold	1% @	1.95
Soluble Blue	- D	90
Sugar Lead, White		1916
Sugar Lead, Brown	79400	81/4
Sulphuric Acid, 66 degrees	1%4@	2
Cerra Alba, 📦 ton		30,00
Ultramarine, W D, gold	25 55	30
Venetian Red, 18 th	1980	134
Vitriol Blue	81/4@	9
Yellow Ochre	114@	136
PHILADELPHIA M.	ARKI	THE
I HILADELI HIA	TTOIL	4.
Paper Market.	-	00
Plate	16 68	10

Paper Market.	
Tileston Plate	20 34 18 35 15 36 13 36 12 36 1014
	2 94
Straw Wrapping 2346 Glazed Hardware 8 5 Unglazed Hardware 756 Tissue Manila, 24 × 36, full count 1.00 © Tissue, white, 20 × 30 1.45 Tea Papers, 14 × 20 50 6 6	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Straw Boards, air-dried, \$\varphi\$ ton. \$50.00 & Straw Boards, steam dried, \$\varphi\$ ton. 50.00 & Binders' Boards, \$\varphi\$ ton. 50.00 & Binders' Boards, \$\varphi\$ ton. 75.00 & Leather Boards. \$\varphi\$ 6% & \$\varphi\$ &	37348 5 55.00 5 55.00 5 80.00 8 80.00
Wood Pulp Board, Fton 60.00 @	70.00
White Rags 544 Mill Assorted White Rags 5%6 White Shirt Cuttings, No. 1 7 White Shirt Cuttings, No. 2 6 Cotton Canvas, No. 1 546 Linen Canvas, No. 2 4 Linen Canvas, No. 1 5	536 6 736 634 6 434
Blues and Thirds	3 234
Hard Woolens. 120 Hard White Shavings, No. 1 546 Soft White Shavings, No. 1 4760	534

NO. I Frints, News and writing	728109 "74	
Ordinary Prints	3660 196	
Manilla Envelope Cuttings	11200 932	
Manilla Papers, No. 1	M2/05	,
Manilla Papers, No. 1	7809	
Hardware and Manillas	156	11
Straw Board Cuttings	94.03	
Binders' Board Cuttings	8105	1
Common Papers	- GR 54	
	109 75	
Leghorn Rags.		
P P. No. 1 Linens	6 614	
S S. No 2 Linens	1400 572	C
B B, NO & Lanens	1200 497	(t)
TT, No. 3 Linens	2869 194	
RR	@ 514	(t)
P. No. 1 Cotton	1460 534	1 -
8. No. 2 Cotton	State 4	p
T. No. 3 Cotton	6225 914	u
	Delich 028	-
B. No. 4 Cotton	794B 274	
White Linen Sicily Rags	7% (ID 35%)	a
Russian Rags.		
SPF	0 -	C
	1/0 49/	1 le
LFB	29(0) 274	
EE	24年 456	d
L L 4	65	1
Chemicals,		
Caroanacana		

Aluminous Cake, currency	~74/89	, ,,,
Alum, Concentrated, Red Star	234@	2
Alum, lump, currency		2
Alum, ground, currency	23/4倍	2
Alum, potash, currency	234/6	2
Alum, porous, currency	8 (2)	3
Anti-Chlorine	41/4(0)	4
Bleaching Powder,	1160	1
Caustic Soda, gold	434@	4
China Clay, English, P ton	17.00 @	22,00
China Clay "Star," currency.	14.50 m	16,50
China Clay, American, P ton, cur'y	10,00	14.00
South Carolina Clay, Ton	12,00 0	13.00
Terra Alba, English, @ ton, best white:	20.00 m.	-
Terra Alba, English, E. W. Brand, Pton	22,50 (1)	_
Terra Alba, American, W ton	11.00	18,00
Prussiate of Potash, yellow	25 6	27
Bichrome of Potash, Scotch, currency	1216@	18
Copperas, American, prime		1
Extract Logwood		
Orange Mineral, gold		
Rosin, good strained	2.00	2.25
Rosin, No. 2		2.40
Rosin, No. 1		2.75
Rosin, Pale	4.00 (2)	
Sal Soda, cur'y	13460	
Soda Ash, caustic, for 48 W cent., gold	2 63	
Soda Ash, carb, gold		
Soda Ash, reflued, for 48 p cent., gold	2160	
Spanish Brown		11
Sugar of Lead, white		
Sugar of Lead, brown		. 8
Sulphuric Acid		
Ultramarine Blue, gold	22 0	

CINCINNATI MARKET.

netian Red, American netian Red, English . . .

Paper	Stock.
Cents.	Cent
City, No. 1 Whites 5	Soft Woolens, mixed
Mill Assorted Whites. 5	City 83
White Cotton Canvas,	Common Wool Rags. 13
No. 1 51/6	White Shavings, No.1. 43
Linen Canvas 434	White Shavings, No.2, 31
White Shirt Cuttings. 7	Colored Shavings 3
Country Whites, No.1, 51/4	White Collar Cuttings 6
Country Whites, No.2. 414	White Envelope Cut-
Country Whites, No.3. 31/2	tings 43
Country Blue Rags 31/2	Manilla Envelope Cut-
Country Mixed Cotton	tings, new 3
Rags	Manilla Papers, No. 1. 29
City Mixed Cotton	Manilla Papers, No. 2. 21
Rags 29/4	Sized Papers 8
Shoe Cuttings, new 5	News Papers 23
Colored Cotton Rags. 21/6	Flour Sacks 41
Manilla Rope 334	Common Papers 90
Hemp Rope 41/2	Straw Board Cuttings 90
Gunny Bagging 8	Binders' & Tar Board
Hard Woolens, old 31/4	Cuttings90
Hard Woolens, new14	Mill Bagging, No. 1 29
Soft Woolens (Mill) 816	City Gunnies, No. 2 2

CHICAGO MARKET.

Rags and Paper Stock.

FOREIGN MARKETS.

London Market Report.

LONDON, January 12, 1878. Business on the whole was but quiet during the week. Buyers are still withholding to make con-tracts for forward delivery until they see what turn

BAGS-Are unchanged, though very little doing. No. 239 CONGRESS STREET, BOSTON, MASS.

Fine White Linens and Cottons were but in very limited request at last prices. Middle and low classes Linens and Cottons were more inquired after, and some orders from America for these grades were declined on account of too low a limit.

GUNNY-Unchanged, some parcels changed hands

WASTE PAPERS.-Although only very little done as yet during this year and comparatively heavy stocks here, holders are firm in prices and not inclined to accept orders under quotations, of which several were declined for American account.

The French Market.

PARIS, January 6, 1878.

PAPER AND PAPER STOCK.—There is no doubt that most of the manufacturers of fine and fancy papers have heavy stocks on hand, but the expected revival of trade will doubtless enable them to easily dispose of them. As foreign rags are admitted duty free, it is necessary to abolish the export tax, or the rag trade here will be in a serious posi-

WOOLEN RAGS.-There is still little doing, but large purchases had been made in the provinces dur-ing the season, and these supplies will soon be forwarded to manufacturers.

Advertisements.

WANTED.—A SITUATION AS FOREMAN IN A ne Manilla Mill on Jute and Manilla Rope, and Spencer Ground Pulp or fine Leather Board. Best of references given if required. Address G. R., office Paper Trade Journal.

WANTED.—A SITUATION AS ENGINEER BY a man experienced in Bank-note, Bond, and all kinds of fine papers. Is sober and industrious. Best of references can be given. Address ISAAC NEWTON, care of Hudson & Cheney, North Manchester, Conn.

WANTED—BY A YOUNG MAN WHO HAS some knowledge of the paper stock business, a position as salesman with some well established house; present salary not so much an object as a chance to improve. Address PAFER STOCK, BOX 5,514, N. Y.

A THOROUGHLY EXPERIENCED PAPERmaker, capable of superintending the building and management of a mill successfully, intelligent and competent, would like a situation. Compensa tion reasonable. Address PAPER-MAKER,

Office Paper Trade Journa

TRUSTEE SALE.

By order of the Court of Probate for the district of Clinton I will sell at public auction on Wednesday, he 20th day of February, 1878, at ten o'clock A. M., he equity of redemption in the following described property and estate of the Clinton Paper Manufacturing Company, assigning debtor:
A Paper Manufactory, with fine water privileges,

ample steam power; three Pulp Engines, one 48-inch Cylinder Machine, and other Machinery, all in excel-ient condition. Also, about 33 acres of land, with dwelling house, all located at Clinton, Conn. Sale will take place on the premises.

JNO. B. WRIGHT, Trustee.

Paper Mill for Sale PERTH AMBOY, N. J.

Containing one 72-inch Single Cylinder Machine Five Dryers, 35 inches; three Mashers, 300 pounds each, and one Kingsland Engine; one 50-horse power Engine to drive the Mill, and one 20-horse power for the Machine, two Steam Pumps, two Boilers, ample supply of water, and has its own dock frontage. The whole in perfect order, is now running, and for sale cheap. Satisfactory reasons can be given for discontinuing the business by the present owners.

J. C. M., Apply to P. O. Box 28, New York City, N. Y.

FOR SALE.

One Iron Tub 300 b. Engine, with Iron rolls, 28x32 in good order, with washer and pulley. SMITH PAPER CO., Lee, Mass.

FITZGIBBONS, MESSER & CO.,

Agents for Manufacturers of

Straw Boards and Lining Papers.

Straw Boards Lined to order. Paper Box Makers' Machinery. All Sizes and Numbers on hand or made to order with dispatch.

203 & 205 Centre Street, corner Howard, N. Y.

GLENS FALLS **MarbleLime**

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

Osborn & Robinson, AGENTS,

87 Dey Street, N. Y.

JARVIS' PATENT FURNACE

For the Setting of Steam Boilers,

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

A. F. UPTON,

GENERAL AGENT,

CONLEY'S Mill and Machinery Agency.

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

ALSO, MACHINERY, MILL SITES and PRIVILEGES.

Estimates given for New Machinery at very nuch lower prices than can be obtained else-

Parties having any kind of Machinery or Mill Property which they desire to sell, will please send a list and description of the same to the under signed, who offers for sale a large line of Paper Making Machinery and Mills, including the following One 73-inch Rice, Barton & Faleng the following the chick of 8 factor & Falen Fourtrinier machine, carries 32½ foot wire, and consists of 8 from the factor of 8 from the falent of 8 from the falent

running on writing papers.

The mill one 78-in., one 62-in., one 42-in. and one 35-in. Fourdrinier Machine.

One 35-in., one 42-in., one 48-in., one 52-in., one 54-in., tone 54-in., tone

and nearly new, used in drying animal-sized writing papers.

One Hydraulic Press, made by the Holyoke Machine Co., and as good as new; platform, 33 × 50 in., opening, 7 ft. 3 in., diameter of piston, 8 in., diameter of corne rods, 3 in.

Six Chilled Calender Rolls, 12 in. diameter, 28 in. long on face.

Five stacks Super-calenders—one six rolls, 26-in. face; one six rolls, 24-in. face; one five rolls, 24-in. face; two four rolls, 24-in. face.

Three Couch Rolls, one rubber and two copper, 12 in. by 68 in. wide.

One Breast Roll, 12 in. by 68 in.

One stack of six Super Calenders, 31-in. face. Four stacks of Straw Board Calenders, from 30-in. to 40-in. face.

One atack Chilled Calenders for boards; two rolls, 48-y l8 in.

to 40-in. face.
One stack Chilled Calenders for boards; two rolls,
40 × 16 in.
Two Rag Cutters, two Rope Cutters, one Cane Cutter, one Wood Chopping Machine.
Eight Iron Dryers, 14 in. by 36 in., in good order,
Price \$150, cash.
Twenty Steam Engines, from 10 to 300 H. P., including one 60 H. P., Putnam Machine Co. make.
Four Double Flue Steam Bollers and one large
Locomotive Boller.
One No. 0. No. 1 and No. 2 Wright's Plunger Pumps:
one No. 2 Holly Rotary; one No. 4 Bagley & Sewall
Plater Pumps; one No. 0. Heald & Sisco; one No. 6
Heald & Sisco; observable Sisco; ob

One Holly Centrifugal Pump, 4-in. pipe, for raising Pulp.
One Rice, Barton & Fales Centrifugal Pump, 3-in. pipe, for raising pulp.
A Brass Stuff Pump, plunger 4 × 10 inches.
Four Sturtevant Blowers.
One large Steam Pump (G. H. Dean & Co.); one 8-in. (Watson) Brass Pump for Artesian well, with 275 feet of rubber-lined pipe and all fixtures; cost, \$3,700; is nearly new, and will be sold cheap.
One Ray Thrasher, two Devil Dusters.
Two 48-in., one 54-in., one 62-in. and one 84-in. Spare Cutters; one 62-in. Stop Cutter; one 62-in. Stop Cutter, one 63-in. St

Cutter, built by Smith & Winchester.
One new 500-lb. Engine, built by Stout, Mills & Temple.
One Gould Patent Engine.
One Gould Patent Engine.
One Standing Press, with gun-metal screw, plate 34 in. by 48 in.; one Screw Paper Press, screw 8 feet long, follower, 31 × 60; one Screw Paper Press, screw 7 feet long, follower 31 × 60.
Twelve Cutting Presses, from 27 in. to 45 in. wide, Six Making Cylinders, of different sizes.
Two 60 in. Case Water Wheels; nearly new.
Ten Water Wheels; different sizes.
One 80-in. Winder, with ninety-six Iron Spools, 2 in. by 28 in.; also, forty Wooden Spools, 7 in. by 28 in.
One set of three Reels, 62-in. face; one set of six Revolving Reels, 76-in. face; one set six Reels, 80 in. face; one Sizer for a 62-in. machine; one Winding Machine, one Size Washer, together with an extensive list of Miscellaneous Machiner, including fifteen Rag Engines, including five 35-in. rolls, four Rotary Rag Bollers, 5x16 feet.
One Rotary Boller, 6½ feet by 24 feet.
Three Wood or Straw Digesters.
One so of Artesian Well Tools.
One No. 8 Armstrong Heater.
One '11ft'' or Elevator Wheel for Cylinder Machine, 48 in. diameter, 17 in. wide; new and complete. About 7,000 Spruce and Pine Lott Poles, 700 of them 10 feet long, the remainder 12 feet 4 in. long.
One W. O. Hickok's Pennsylvania Ruling Machine.
Three sets of Press Board Polishers.
One Hotsting Screw, 15 feet long, 4 inches diameter, with spur-wheel and false bottom plate; all complete. Cost 5700, and is entirely new.

One Housing case with spire with spire-wheel and false bottom plate; all complete. Cost \$700, and is entirely new.
Five Wrought Iron Tanks, 9 feet diameter, 8 feet high, one-eighth iron; good condition.
Copper Kettle, 425 gallons, 4 feet diameter, 4½ feet high; good as new.
One full set Paper Collar Machinery; capacity 50,-000 to 100,000 collars per day.
Two Morris and one Copeland Power Elevators; capacities, 3,000, 2,000 and 1,000 pounds respectively.
Ten Printing Presses, different sizes.

Paper Mills and Privileges.

22.—A small Manilla Mill, located in Maryland, con ining 2 engines and 46-inch Fourdrinier machine is od condition, with 40 acres of land. Price, \$6,000. good condition, with 40 acres of tand. Free, \$0,000.

33.—A Paper Mill Site and old Machinery, located in Massachusetts (the mill was burned within a year), consisting of 2 acres of land, with good water privilege, 3 buildings, the iron part of a 48-inch cylinder machine and 2 engines, 1 steam boiler and 2 water wheels. Price, \$2,000.

wneess. Frice, \$2,000.

24.—A good Print or Manilla Mill, located within 195 miles of New York City, consisting of 5 large stone buildings, 40 acres of land, good water power, and the following machinery: 156-inch cylinder machine, 250-lb., 180-lb. and 11,000-lb. engines; 1 Kingsland engine, 1 rotary boiler, 2 steam boilers, and everything complete and in good condition. Half-interest for sale for \$15,000.

25.—A large Book and News Mill, located within 100 miles of New York City, on an excellent water power, containing 6 rag engines, one Jordan engine, and an 84-inch Fourdrinier machine, and all the necessary machinery for such a mill. Price, \$30,000, on easy payments.

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

Price, \$5,500.

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

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

to see acre, in exchange for Paper of a good Paper Mill.

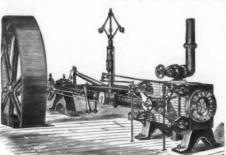
29.—A valuable four-set Woolen Mill, situated near the City of Cincinnati, Ohio. A four-story Brick Building, 100x55 feet, with two brick wings, and brick Engine House, Blacksmith Shop, &c. This mill contains four sets of Machinery, complete, including four Self-Operators; four Hand-Jacks, 294 spindles each, four sets Cards, No. 1, 48-inch; fifteen Broad Crompton Looms, 6-inch, with Gigs, Twisters, Fulling Mill, Presses, Shears, Roll Cards, Grinders, and, in fact, a complete outfit to make first-class goods, all in prime order and for sale on easy terms.

30.—A good Hardware and Manilla Mill, located in Connecticut, containing a 42-in. Cylinder Machine, two 250-fbs. Rag Engines, with other machinery to match; also, two dwelling houses and about two scress of land. This property is in good condition, being built in 1871; price, \$10,000.

Address EDWARD CONLEY,

No. 74 Duane Street, N. Y.

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



CORLISS ENGINE Builders.

MACHINERY.

Boiler Makers.

SHAFTING AND GEARING.

LOBDELL CAR WHEEL COMPANY,

WILMINGTON, DEL.

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

ROLLS. The undersigned having examined the product herein described respectfully recommends the same to the United States Centennial Commission for award, for the following rea-

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

(Signed) JAMES M. WILCOX,

Signature of the Judge. ALSO MANUFACTURERS OF

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

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

CHILLED ROLLS UNEQUALED IN QUALITY AND GROUND AS PERFECTLY AS ANY OTHERS, . C. LCBDELL, Pres. W. W. LOBDELL, Sec. P. N. BRENNAN, Treas.

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

WHOLESALE PAPER AND RAG WAREHOUSE. 30, 32 and 34 South Sixth Street, Philadelphia, corner of Jayne Street



LARGEST STOCK AND GREATEST ASSORTMENT IN THE COUNTRY J. G. DITMAN & CO.

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

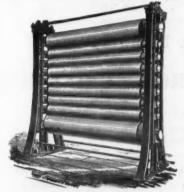
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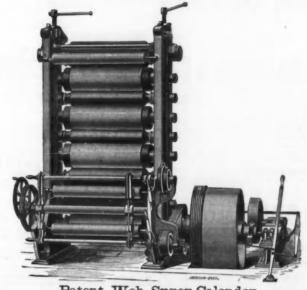
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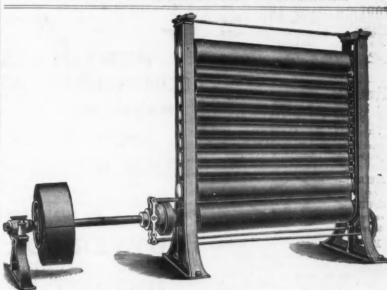
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