

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

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Trade Topics.

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## WHOLE NUMBER 191.

### Correspondence.

#### Improvement in Pulp-Engines.

The illustrations on this page show an im provement in paper-pulp engines lately patented by Simeon L. Gould, of Gardiner, Maine. The drawings represent in Figure 1, a vertical and longitudinal section, and in Fig. 2, a cross-section, of a paper-pulp engine embodying the improvements

A, represents the curb or case of the engine in the form of a horizontal cylinder with closed ends and a flattened top, such top having a chute or hopper, A', by means of which rags or other material are introduced into the interior of the

The portion of the engine for disintegrating and reducing the "stock" which is to be con-verted into pulp consists of a vertical, stationary, annular grinding-bed, and a rotary grinding wheel or disk operating in connection therewith, the contiguous faces of the two being armed with suitable radial blades or knives, between which the stock is reduced.

The stationary annular bed is shown at B as a substantial ring of cast-iron, secured at opposite sides to the interior of the case A, as shown at C C, and arranged vertically and at right angles to the axis of the said case, one side of the said annular bed B being armed with a series of radial knives or blades, a a, &c.

The ring B is cast hollow, as shown in the drawings, and connected with its interior are a feed and discharge pipe, b' c', by means of which a current of cold water may be permitted to flow through it.

The purpose of thus reducing the temperature of the out by and consequently of the "scaff within the case A, is to avoid injury to the "sizing" employed in sizing the pulp, as a high temperature interferes with a proper action of

The rotary grinding-wheel is shown at D as a solid disk of cast-iron, disposed alongside of the bed B, and of about equal diameter therewith, and secured to a long horizontal shaft, which extends through the bore of the bed B, and finds a bearing, b, at each end of the case A, the face of the disk D next adjacent to the ring-bed B being armed with a series of radial es, c c, &c., which operate in connection with the blades, a, to reduce rags or other ma terial subjected to their action, power being applied to the said shaft in the ordinary manner

As the grinding head or disk D must be forced with considerable power up to and against the bed B, and held there while the grinding takes place, very great friction necessarily exists at the end of the shaft where the resistance occurs. To obviate or reduce the friction at such end of the shaft (shown at d in the accompanying drawings), it is surrounded with a box, F, which is filled with water, a conical step or pivot, e, being secured to the inside of such box, and entering a corresponding socket in the end of the shaft.

As the water in the box F surrounds the end of the shaft and the step, the heat which would otherwise result from the friction of the parts is obvinted, and the use of lubricants avoided, as the water constitutes an effective lubricant.

The water box F is supported within a bracket G, extending from the end of the case A, and a feed-screw H, operated by suitable means, is screwed through the outer end or head f of such bracket, by means of which the rotary disk D is fed up to the annular bed B with any desired de-

is required to drive the engine, while, still further, no "dead stock," as it is termed, is allowed to stand in the case. Owing to the contiguous faces of the bed B and disk D, and their armature being flat, any pieces of iron or other hard foreign substances which may find their way to the interior of the case in the stock do not become entangled in and

break the knives, but are readily precipitated to the bottom of the case, from whence they may be removed through a suitable trap. For the same reason-that is, the straight edges of the knives-a large working-surface is

secured, which, acting in a direct manner upon the stock, pulls and separates, rather than chops up, the fibres of the material. The inventor claims: 1. In paper-pulp en-

gines, the annular stationary grinding-bed B and rotary disk, in combination with the case or curb A, when the contiguous faces of the two

A

are flat, and the whole so arranged that the stuff in circulation takes a course through the centre of the bed B, passes between the latter and the disk D, and is discharged at the circumference of the two, the said bed being secured to the walls of the case, as stated, and the disk supported upon a shaft which passes through the bed.

2. In paper-pulp engines, the com-bination, with the curb or case, and the shaft extending through said curb, of b the water-box outside the curb, containing a quantity of water, which sur-rounds the end of the shaft and its step, and maintains a low temperature of the same, as well as constituting a lubricant

engine, consisting of the case A, annular flat-faced grinding-bed B, rotary flat-faced disk D,

and water-box F. 4. The hollow annular grinding-bed provided with water inlet and outlet ports.

#### Improvement in Apparatus for Preparing Paper Pulp.

Hiram Allen and Lyman S. Mason, of Sandy Hill, N. Y., have received a patent for an improvement in apparatus for preparing pa-per pulp from printed and written paper and ther suitable stock.

They employ a boiler of the ordinary or any snitable kind used for treating paper stock with alkalies or chemicals, and steam from any suitable generator, as usual in paper mills. A fixed vat of greater capacity than the boiler is arranged so that by opening the man-hole in the boiler, and revolving the latter, the treated paper stock will be discharged from the boiler

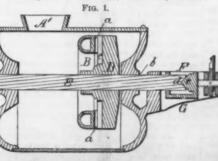
hrough the man-hole into the vat. For economy of room and efficiency and diess of operation the boiler is rotary, and directly over the vat; but as regards this invention, the boiler may be located higher than and at one side of the vat, and with the man-hole over any suitably inclined conductor leading into the vat, so that the contents of the boiler shall, by their own gravity, be automatically discharged through the man-hole and conductor into the vat upon slowly turning the iler when the man-hole is open.

The vat has a partial partition, so that the interior of the vat is in the form of a circuit or continuous passage for the water, which is to be supplied to the vat, as shall be required, by a hydrant, pump or any suitable means. A paddle-wheel is arranged in the vat

pipe or passage, furnished with a stop valve or plug, and which pump also communicates, by a ipe, with the circuit vat, so that it can transfer the washed paper stock suspended in water from the washing-vat into the circuit vat of the pulping engine

On the paddles of the wheel are projecting fingers, hooks, or pins, arranged so that as the wheel revolves the thread, strings and strips of cloth, which often occur in stock from old paper, will be caught and separated from the paper stock by the pins, hooks, or fingers, and from the latter the accumulations of threads, strings, and strips of cloth can be occasionally removed by hand as the wheel revolves.

The patentees make the wheel with its paddles inclined to its radii and to its direction of motion, and to have the outer edges of its paddles turn close to or near the bottom of the vat, in order that the paddles shall not lift out the paper stock in rising out of the water, while they at the



the same into pulp suitable for paper. While the treated paper stock is being discharged from the boiler through the passage in-to the vat, suitably supplied with water, the wheel, rotary strainer or strainers, pump and engine are then all in motion, with the pas-

sage open, and the paper stock will then be discharged from the boiler into the vat, and mixed with and suspended in the water in the vat by the wheel, and thereby made to circulate past the strainer or strainers, while a portion of the paper stock thus suspended in the water will be transferred by the pump and passage, into the pulping engine, all by the automatic operation of the apparatus.

first wash the paper stock and a terward reduce

The transfer of the suspended paper stock from the vat into the engine can be stopped by stopping the motion of the pump, or by closing the pipe by a valve or plug.

This combination of the boiler, with its dis charge passage, circuit vat, supplied with water, rotary strainer or strainers, and current-producing wheel in the vat, and mechanism by which the boiler, current-producing wheel, and strainer or strainers are revolved, is claimed to be of great importance, since there-by the boiler delivers the treated paper stock automatically into the water the circuit vat, and saves much time and labor otherwise necessary in the transfer, and simultaneously prevents the escape into the atmosphere in the mill of much steam and deleterious vapors from the hot-treated paper stock; and at the same time the wheel produces throughout the water in the wate, strong

in the vat of the paper stock as it is gradually received from the boiler, and causes the immediate mixture and suspension of the paper stock in the water, and the simultaneous circulation of the same against and past the rotary strainer or strainers, by which the soiled water is at the same time drawn off.

By the combination of the main circuitwheel, strainer or strainers, pumpingengine, pump and passage, and mechanism by which the current-producing wheel, strainer or strainers, pump and pulping engine are actuated, the wheel will not only mix the paper stock with and cause its susp

water in the vat, and the circulation of the same past the strainer or strainers, whereby the paper stock will be washed and the soiled water removed, but the wheel will also keep the paper stock mixed with and suspended in while the pump transfers the same through the passage into the engine, by which the paper stock is reduced into pulp suitable for paper; whereby it is claimed inky or soiled per stock can be washed and reduced to pulp for paper at a cheaper rate than by the orry means heretofore used.

By having the vat made with its bottom level, and without any raised back-fall near the wheel, or other raised obstruction on the bed, and the wheel constructed with paddles, either radial or inclined, and extended from above or near the level of the top of the water in the vat to near the bottom of the latter, the wheel is said oduce a suitable current in the mixed paper stock and water, past the strainer or straine throughout the circuit of the vat, without ma terially obstructing the flow of the upper portion of such current; and, at the same time, the level unobstructed bottom of the vat will perait such current to pass over it pieces of coal, stones, nails, pins, steel p other injurious solid foreign matters that are common in old paper stock will settle, and be left on the level or nearly level bottom of the vat, away from the wheel, where they cannot do harm, and can easily be removed on empty ing the vat. By having the paddles of the wheel incline to the radii and direction of rotation of the wheel in connection with the vat, suppli with water, and having a substantially level unobstructed bottom, and the rotary strainer or strainers, the paper stock is expected to be thoroughly mixed with and suspended in the water in the vat. and in that condition moved past the rotary strainers or strainer with a more even flow throughout the circuit and fro to bottom of the current, and with less lifting of the paper stock out of the water, than can be effected in a circuit vat having a part of its bottom raised high above the remainder, with a paddle-wheel of like diameter, but with paddles arranged radially.

# British Notes.

[FROM OUR REGULAR CORRESPONDENT.] 18 PATERNOSTER Row, London, E. C., } December 15, 1877.

Xmas will be here now in a few days, and there is naturally a distinct lull in trade immediately before the close of the year, when ac-counts are all made up and books closed. People are now chiefly occupied with the topic of holi-day making, and where and how Xmas is to be spent. The year cannot be called a prospero one, yet there seems to be as much anticipation of the coming festive season and all its gayeties and concurrent expenses and lavish outlay as usual. Bad trade does not appear to check the indulgences peculiar to holiday times. It is as well, for business has been but a melancholy topic for some time past. The mills will prob-ably close down for a week at the end of next week, to clean up, repair, &c.; and it is to be hoped will start again upon the coming year with better luck and happier times. I hope that the late reverses of the Turkish forces will have the effect of improving the prospects of peace. There are two distinct parties, however, in Turkey—the peace and the war parties; but it is to be hoped that the counsel of this and other countries will be solicited and prove eff in restoring peace and reformation to Turkey. The war has doubtless had a very disastron The war has doubless had a very disastrous effect on European trade, and especially on Eng-land, since we are supposed to be and may be particularly interested in any movements near our Indian territory. The suspension of hostili-tics will restore a final sector of the supposed of the may reasonably hope for a very advantaged change in commer

The late crisis in France has been a very serious matter, and at one time affairs over there looked very ominous indeed. I observe that a valued correspondent notices the "French situ-ation" in its commercial bearing with the trade of this country. Happily this is ended, and if Turkey can only arrange her little difficulties we shall start our cruise upon the great ocean of time in 1878 with every hope of a fine and prosus voyage.

There is simply nothing to say about our trade. It is very quiet, and, as before non-tioned, very little can be expected just at this time of the year. Prices are just the samevery low. Our markets do not appear to get any better, and, if anything, have been duller this week than last. The fibre market is very quiet and trade slack. Fine white linen rags quiet and trade stack. Fine white inter rags moved in small lots for home consumption, for immediate use. Strong middle-classed linens in good demand. Fine white cottons neglected, but middle and low grades better and prices firmer. In waste papers no change. Very little business was done, although some rumors were about concerning a large shipping order to about concerning a large shipping order to America. Holders keep to their former quota

A full report of prices, &c., will be found below. The coal market is in statu quo, and chem icals are decidedly weaker, very few orders being on hand.

I note that the Roumanian Government is ready to secure to any person who shall estab-lish a paper mill in Roumania the contract for all the paper used by the provincial authorities, The mill is to produce at least a daily average of 4,000 kilogrammes. Now, ye paper-makers i "don't all speak at once 1."



IMPROVEMENT IN PULP-ENGINES

time effectually stir up and mix the paper stock with the water, and insure the proper cir culation of the same past the rotary strainer or strainers.

In ordinarily using the apparatus the printed paper or other stock is submitted to the action of an alkaline or suitable chemical solution and steam in the boiler, in the manner heretofore nmonly practiced in making paper pulp from like materials.

At the completion of the treatment of the pa per stock in the boiler the wat is partly filled with water, and the man-hole of the boiler is opened, so that the treated paper stock will be discharged from the boiler into the water in the vat

The wheel is at the same time revolved, and thereby produces a current in the water, and causes the mixture and suspension of the paper stock therein, and drives the same past th tary strainer or strainers, by which the soiled water is drawn off from the vat, while clean water is supplied thereto by a hydrant, pump, or other suitable means

This action of the wheel and strainer or strainently washed. Then the supply of water to the vat is stopped, and the rotation of the wheel and strainer or strainers is continued until the contents of the vat are of suitable consistency to be bleached, or to be transferred to the pulpingengine. Then, if the washed paper stock is to be bleached or partly bleached before being reduced to pulp, a suitable quantity of the blo ing liquid is to be mixed with the paper stock in water in the vat, and the whole left in the vat until the pulping-engine shall be ready to be supplied, whereupon a sufficient portion of the washed and partly bleached or unbleached paper stock held in suspension by the water in the wat by the rotation of the wheel is trans ferred by the pump into the engine, by which latter the paper stock is reduced into pulp suit able for paper. In case the engine shall he empty wh naner stock is being received into the yet from oiler, or when the paper stock has been only partially washed in the vat, and it shall then be desired to have the engine in operation, the pump is then put in motion, with the pa open, and thus made to transfer a suitable fortion of the slightly or partly washed paper stock, suspended in water, from the vat into the engine, which latter will then be used, in the manner commonly practiced in paper mills, to

of po

The stock to be ground or reduced in this en gine is introduced, with the proper amount of water, into the case A through the opening or The revolutions of the disk D gener hopper A ate a centrifugal force, which induces a current and circulation of the stock through the centre of the annular bed B, and outward between such bed and the disk, and is discharged at the ence of the two, the blades a and c circumfer serving to disintegrate and reduce such stock as it passes betwen them. This continuous circula-tion and grinding of the stock is allowed to continue until it is reduced to pulp of the desired consistency or fineness, when the contents of the engine are discharged through a trap in the bot tom, in the ordinary manner. The water-box, as explained, obviates

nger of undue heating of the end of the shaft and its step, and does away with the labor and se of lubricating it.

The annular or open, as well as hollow, form of the grinding bed B enables it and its knives to remain in a comparatively cool condition, which is a very desirable result.

Owing to the absence of arms in the grindingbed B and disk D, and other obstructions in the case A, little resistance is offered to the flow or circulation of stock, for which reason the reducing process takes place rapidly, and less power

in the circuit-passage, so that the rotation of the wheel shall cause a continuous flow of the water throughout the circuit of the vat.

A rotary strainer is placed separate from the wheel, and arranged in and series the upper part of the circuit-passage in the vat, so as to draw off the soiled water from the vat without permitting the paper stock to escape. One, two three, or more of the rotary strainers may be used in the vat, as shall be preferred. Each of the strainers is essentially the same as that com monly used and called the "washer" in the ordi nary heating-engine, by which paper stock is generally washed and reduced to pulp suitable for paper. Each of the rotary strainers has a rrounding fine-wire screen, which will not let the nanor stock nass through, but will allow the soiled water to run into the interior, where the water is raised into a central discharge-passage by buckets secured to and revolving with screen. The soiled water thus discharged is to be conducted away by any suitable passage or pas-

An ordinary pulping engine, with a circuit vat-roll and bed, armed with blades under the cover, and a rotary strainer or washer is also employed.

A pump, of any suitable construction, municates with the lower part of the vat by a

The projecting pins, hooks, or fingers on the paddles are of much importance in collecting and separating the threads, strings, and strip of cloth from the stock made from old books and other papers, in the operation of washing such stock by the strainers in the vat.

ng Tin speaking of newspapers, papers, &c., /saysz "There is no doubt many newspaper proprietors are feeling the pressure of the times in the shape of diminished and still diminishing sales, and what is more serious, a slack supply of advertise-ments. Some set-off there is in the present cheapness of paper, and let us hope that a speedy termination of the war in the East may bring

about a general revival of business." Many of our leading periodicals are as usual producing their "Xmas numbers." Our illustrated weeklies are conspicuous. Tremendous ales attend the production of these specialties, and "every little helps" the paper-makers now. Let us hope there will be a good harvest in these Xmas numbers this year.

By the way, while mentioning the illustrated apers, I would just like to repeat an opinion of "special war correspondence," which appeared the other day, and which is amusing. one objects to the introduction of the ' personal " into the letters and drawings from the seat of war. It appears that gentlemen have written home elaborate descriptions of themselves and their doings, and many of the drawings illustrate absolutely nothing save the vanity of the artists in imagining that anybody out of their own particular circle cares to see portraits of the Times and Illustrated London Ne

"specials" in their night-caps, or endless repre sentations of "our own correspondent's quarters" at Gorny-Studen or Plevna. This is rather "rough" on the poor "specials," who, it seems, have sometimes performed their duties at the cost of their lives.

Two new trade journals are coming out here. the Perruquier, for hair-dressers, perfumers &c., and the Pottery and Glass Trades' Journal.

There is a great push in London after fibres now, and next year I think will see some great enterprise in this direction. It is sincerely to be hoped that no more limited liability companies will spoil any efforts to obtain good fibres. The worst of such companies is that they are always directed by men who know nothing whatever about the technical business of the company, and who meet together for wine and biscuits and to sign cheques. There is an undoubted grand opening for a regular supply in quantity of good serv-iceable fibre. We don't want wood in any shape. There is a perfect overflow of wood pulps in our market, and, whether rightly or wrongly, our paper-makers do not fancy this article. lecture given at the Society of Arts on paper making, wood pulp was spoken of as "only fit for loading." Of course, I am alluding to mechanical wood.

I see in your editorial remarks you disagree with my views as to caustic soda. Caustic soda, if realiy the article as sold here, 60 to 62 per cent., does not require causticizing. Its very name implies this fact. It is prepared by boiling down to concentration causticized liquor prepared from soda ash or sodium carbo ate Whether the sea voyage destroys its causticity, I will not dispute. I used several tons in the West Indies and never found the least difficulty with it. One of the great tests of caustic soda is its thorough causticity and freedom from carbonate, so that, to me, the necessity for recaus ticizing in America appears a thorough fallacy. I am certain that if you buy good cream caustic f. o. b. Liverpool, it will be delivered in America in sound, good condition, and certainly free from anything beyond perhaps three per cent. carbonate, under the most unfavorable circumstances

Perhaps a few remarks are due from me con-cerning the "British Notes," and absorbing room which your correspondent wishes to occupy. I own to my failings readily. It is a very difficult matter to please everybody. I try and scrape together such news as will interest your readers. I am unfortunately compelled to be my own judge in selecting these items, and have to forego the advantage of consulting any of your readers personally. Many foreigners have expressed to me their generous appreciation of my humble efforts, and have informed me that it is from your columns they discover what goes on in Great Britain. Gathering trade news reminds me of gathering figs from thistles-it is about as easy when everybody is "close" and trade is bad.

Home Markets.-Coals. No Hartleys for sale. 3d.; East Hartlepool, 18s. 3d.; Lambton, 18s.; Tees, 18s. 3d.; Hartshorn, 16s. 3d.; Hetton Lyons, 16s. 3d.; South Hartlepool, 16s. 6d.; Fanes, 16s. 3d. Ships at market, 26; sold, 16; contracts, gas, &c., 3-19; unsold, 7; ships at sea, 25.

Fibres.-Rags-New cuttings, 30s.; superfines, 2's.; fine, 22s.; outshots, 16s.; London ditto, 10s.; thirds, 8s. Prints, 12s.; blues, 12s.; blacks, 54, to Us. First quality canvas, 22s.; second ditto, 15s. 6d.; thirds ditto, 11s. Clean gunny, 8s. to 10s.; bagging, 6s. to 8s.; coir rope, 11s. to 13s. white rope, 9s. to 11s. In woolen rags, new unions, fis. to 10s.; old cut, mixed, 15s. to 20s. ditto, dark, 7s. to 9s.; softs, drabs, 10s. to 12s. hard stuffs, 14s. to 16s.; wove carpets, 7s. to 9s.; common ditto, 3s. to 5s.; shallies, Ss. 6d. to 4 64

Jute.-Fine, 18s. 6d. to 20s.; medium and fair, 15s. to 17s.; rejections, 14s.; cuttings, 11s. to 12s. Esparto.-Fine and best Spanish, £9 to £10; fair to good, £8 to £8 10s. ; best Algerian, £6 10s. ; fair ditto, £6; Susa, £7 10s.; Sfax and Gabes, £5 to £6; Tripoli, £4 5s.; Mogador, £5. Dias and palm leaves, purely nominal, £4 to £5. Wastepapers.-Fine cream, 18s. to 20s. ; mixed

shavings, cream and blue, 16s. 6d.; blues, 15s. 6 .; seconds, 14s.; mixed ditto, 5a.; strong wns, 5s. to 6s.; mixed ditto, 3s. to 4s. Islger waste, 14s.; letter waste, 10s. to 12s.; news, 5s.; railway tickets, 5s.; straw board cuttings and rubbish, 2s. Chemicals.—Cooper Bros. & Co., Newcastle-on

Tyne, say: The demand for bleaching powder and soda crystals has somewhat abated this week, and our market is quiet with few new The French situation has impeded comorders. mercial affairs with that country and business in general continues almost lifeless. Refined alkali, 50 to 52 per cent., at 1%d., in

# A Mechanical Dictionary.

We take great pleasure in announcing to our readers the completion of "Knight's American Mechanical Dictionary," which has lately been published by the well-known "Riverside Press." Its advent should be hailed with satisfaction by every practical man in the land, for it relieves a want that has long been felt among all classes ngaged in industrial pursuits.

This work is the result of twenty-five years application, much of the time having been passed by the author in the United States Patent Office. where he was engaged in editing the Patent Office Report, and classifying patents; and sub equently editing the "Official Gazette," and ystematizing for examination the 20,000 applications for patents which yearly are present to the office. Sitting at the very centre and focus of the mechanical thought of the country he saw the necessity for a compendious descrip tion of the tools, machines, processes, and ap liances of the arts and sciences; in short a Dictionary of Mechanical Terms.

### THE SYSTEM OF INDEXING.

The value of a work of reference depends largely upon its index. When one has a question to ask of an ordinary cyclopedia it is fremently very difficult to determine under which title or heading to look.

The author has invented a system of what e terms "Specific Indexes," by the use of which the inquirer is guided straight to the information he is in quest of, even though he be entirely ignorant of the name of a thing, and have but the most vague and general notion of its use. This is accomplished by grouping under the general title of each science, art, trade, or proion, a list, or "specific index," of every article in the book bearing any relation to the subject in question. The titles of these indexes are in turn grouped on page v., vol. 1, so that by a glance one may determine which clew to follow. Beside the use above mentioned, these "speci fic indexes" afford the reader an excellent portunity for investigating thoroughly all that pertains directly or indirectly to any special by using the Index under the title of that subject as a sort of head-centre and following out its various branches through all their

ramifications. Fifteen thousand words are thus assembled in what may be called these professional and trade

ocabularies. Another unique and valuable feature of the

work is A HISTORY OF INVENTIONS.

In these days of "modern improvements, me is very apt to placidly accept the result of loug ages of patient ingenuity, without stopping to inquire into the history of the thousand and one appliances for comfort by which we are surrounded. Yet nothing can be more instructive or entertaining than to follow the gradual derelegancest of mechanical ideas, from the sende forms of early times to the perfect fruition of to-day.

The author has given in connection with a description of each machine, tool, instrument, or mechanical appliance, a more or less circumstantial account of its history. A sort of mechani-can biography, in which the varying fortunes of each article is narrated in chronological se-

The work also contains another extremely valuable and entirely original feature which the author has been pleased to term

A TECHNOLOGICAL VOCABULARY. Rather a formidable looking title, but simple ough in its signification.

There are many terms in use among various trades and professions which are not to be found in any 'exicon, because they are not "King's English." By constant use they have becom semi-legitimate, and once in a while a few of them have established their claim to respecta bility and been admitted to the citizenship of Webster's Dictionary." But thousands of others, less fortunate, have no abiding-place, and, though indispensable, have not yet been recognized in etymological society. Here, then is a rallying-place for these words of "doubtful fame," and under the title of the thing to which each term pertains we find them comfortably provided for. Thus under "Mold," may be found a list of

" Molder's Terms," which are current 127 amongst foundry workmen. Miners have their peculiar terms and phrases, which are defined nder the head of "Mining Appliances," &c. The value of this Vocabulary must be ap-

parent. It is a sort of supplement to "Webster's Dictionary." Various technical operations are incanable of being explained without the use (bicago (III) Homeonathic Record, 36 pp. oct.

ject been to spread them out and make a show, have been enumerated as separate figures. The book also contains seventy-five full page plates, and for general typographical excellence, quality of paper and binding the work is unsurpassed. It may be had, by subscription only, in three bound volumes, ontaining in all 2,831 pages, at from \$24 to \$30 per set, according to style of binding. Addres the publishers, Hurd & Houghton, 13 Astor

THE PAPER TRADE JOURNAL.

place, New York, for further particulars. American Competition.

The only shipping markets which continue to exhibit any vitality are Australia and New Zea land, and a large and increasing proportion of their orders is going to the United States. The competition is not confined, as formerly, to those articles for the production of which the Americans enjoy natural advantages, such as woodwork, but extend to leather goods, tinware, machinery, every description of imple ment and edge-tool, carriage axles, force-punps spades, shovels, axes, forks, files, locks, scales, tacks, rivets, pulleys, sewing machines, stove grates, guns, pistols and other products too umerc as to mention. In all these branches of manufacture the Americans are rapidly increas ing their Australian business, while the English makers are losing ground. Australian com-merce, as a whole, is certainly expanding, yet the returns of many well-known Birmingham irms who supply the markets of Sydney and Melbourne are not now one-tenth of what they were a few years ago. If we ask for an explanation of this extraordinary falling off, we are told that it is due to the successful competition of the Americans, who beat our manufacturers some times in price, always in quality and not unfre quently in both.

English manufacturers are slow to adopt new patterns, or to accommodate themselves to the vants of their customers, but their American competitors spare themselves no pains or expense in this way. They are constantly on the lookout for novelty and improvement, and by good trade organization and close intercommunication they are always kept well posted up in what is being done by their rivals in other parts of the world. Their illustrated pattern-books, which are dis tributed with a lavish hand among their cus ers, are marvels of engraving and typography, and no amount of canvassing or advertising is spared to bring the merits of their productions before the world. Above all, the Americans take care that their goods shall correspond to sample, and be turned out in a finished and workmanlike manner, unlike those of many English makers, who never' trouble themselves to inspect the work they send away.

If our manufacturers wish to preserve any part of their foreign and colonial trade it is high time they bestirred themselves. They must organize means for keeping themselve posted up in the doings of their trade competi-tors in Germany, Belgium and France, as well well as the United States. They must obtain and study the pattern books and price lists of these pushing opponents, and adopt measures for mas tering their manufacturing processes. One great advantage which the Americans possess over the English manufacturers is the extent to which they have superseded hand labor by machinery If our edge-tool makers, locksmiths and cutlers wish to keep pace with their rivals in the States they must lay down machinery of equal excellence, and adopt precautions as thorough as theirs for testing and overhauling the work turned out.—Birmingham Daily Post.

#### Newspaper Intelligence.

The following is a list of new newspapers, fur nished from the advance sheets of the American Newspaper Reporter and Printers' Gazette : NEW NEWSPAPERS.

Size

 $.24 \times 36$ 

 $.26 \times 40$ 

 $.24 \times 35$ 

 $27 \times 41$ 

 $22 \times 31$ 

.23 × 82

 $28 \times 44$ 

 $24 \times 36$ 

 $20 \times 26$ 

DAILY. Washington (D. C.) Post

	WEEKLY.
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NEW YORK : SATURDAY, DEC. 29, 1877.

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

per annum. Subscription and postage for France, per 25 francs

Subscription and postage for Germany, per 8 thalers ADDUD0 ....

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 factor of all kinds in relation to the state of the mills, &c. will be gladly received. All communications must be addressed to

HOWARD LOCKWOOD.

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

Philadelphia Office : No. 505 Chestnut st.

#### TO CORRESPONDENTS

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

THE year goes out and another comes in. May it be a happy one to our friends and all humanity as well.

PAPER-MAKERS will find a valuable list of books relating to paper manufacture and incidental subjects in another column.

THE process for making thick paper described in last week's JOURNAL is commented on by several correspondents. It would seem that the idea is not new. It remains for the inventor to substantiate his claim to originality.

OUR illustration to-day is of a new form of the Gould engine. The main feature is substantially the same as that first patented by Mr. Gould. It differs in the details somewhat, but especially in the application of power to drive it. In the first engine the power was applied to a perpendicular shaft, while in this improvement it is dimeeted upon a horizontal shaft, which seems , to us to be a great advantage.

OUR crowded space forbids the publication of another letter from Professor Underwood upon the Safety Paper question. It appears that Mr. Camp, of the Clearing House, was erroneously said to have recommanded an award to the National Safety Paper. We are now informed that he has never had any occasion to change his views, but that he has believed from hours; then raise them out of the tub by the first that the National Safety Paper

THE anxiety in Europe has got into without mixing the coloring matter with a second stage. No sooner is the French trouble over than new and more dangerous complications arise. They are the natural consequences, however, of the political condition, and any empirical treatment of it, as England desires, would only drive the disease further in, and it would be sure to

break out later, especially as long as that festering sore, Turkey, is not radically got rid of. The anxiety in England is only a counterpart of what prevails elsewhere. There is not a country in Europe which has not its own causes for apprehension. England has its strikes, the increasing discontent among the working classes and its political and commercial position threatened at every moment by progress in the arts of war or peace. Germany is bowed down by a huge standing army and a commercial depression which is not relieved by any prospects of export trade or home industry, and anxious as to the position she may stand in when the next war requires

her legions. The smaller powers are not only anxious but frightened and uncertain as to who even their enemies may be. Belgium is between the hammer and the anvil, and is looking round to find a friend or disarm a foe-by peaceable means. Her iron works are standing still and her dreams of commercial greatness are vainly awaiting a commercial marine and that universal trading position which nations are in search

of. Holland is so full of gentlemen living on their money, besides "Dutchmen, dikes, and drakes "that her attention is only somnolently drawn to the possibility of being invaded by something else than the element she has been so long fighting against, and to the fact that her coffee auctions and her Maatschappy do not somehow exert their old-time market-swaying influence. Austria is trying to arrange a commercial treaty that will please the Magyars and not offend the Germans. The whole Continent is a cauldron, and the result of the brew is very uncertain. The paper trade in common with all other interests is suffering heavily. for the increased circulation of a few journals is a very poor counterbalance to the

decreased consumption of all kinds of paper resulting from the commercial stagnation.

A RECENT patent for an apparatus for preparing pulp from written and printed papers is described on our first page. We omit the illustration as unnecessary to an understanding of the process. The method substantially consists of boiling the imperfections or papers in a rotary boiler with alkali, under pressure. After the stock is sufficiently boiled it is emptied into an oblong vat partly filled with water, and containing a paddle-wheel, two washing cylinders and a midfellow, making it substantially a large washing engine. After being washed in this vat the pulp is transferred to a rag engine by means of a pump, where it is rewashed, reduced to pulp,

and bleached. This system, we think, is faulty. From practical experience in this country it has been found that the following mode of treating paper stock has produced the best results : Put the papers into an open tub with a false bottom ; thoroughly saturate them with alkali, and boil them under a low pressure for several means of the false bottom : pile them up in

the fibres. By the other plan, the treatment is so severe that the coloring matter and fibres are thoroughly mixed, rendering them seemingly almost impossible to be separated.

### THE PARIS EXPOSITION.

The Commissioner-General appointed under the joint resolution of Congress to represent the United States at the Paris Exposition is ready to receive applications for space from American exhibitors. Our paper and machinery manufacturers ought to be represented, and should take early action in that behalf.

The joint resolution also authorizes the Commissioner of Agriculture to use such amount as he may require to prepare suitable specimens of the agricultural products of the several States and Territories for exhibition. This amount is to be taken out of the appropriation, which, after deducting salaries and clerk hire, is only \$106,000.

The amount to be expended by the Commissioner of Agriculture should have been specified. As it is now the Commissioner-General and the Commissioner of Agriculture may not agree as to their respective portions. This may operate to divide the responsibility and, in a measure, defeat the success of the Commission.

The joint resolution further provides that not more than one of the twenty assistant commissioners can be appointed from any one State. This we think is a mistake. The assistant commissioners are not intended to represent an individual State, but the United States. It could not be otherwise, as there are thirty-eight States and only twenty commissioners. Being representatives of all the States and Territories the President should have been allowed to select men best fitted for the respective duties to be performed, regardless of State lines.

The one hundred honorary commissioners who are to report upon special subjects without pay, will have a labor of love to perform. We hope that whoever may be assigned to this honorary position will accept the position with the intention of faithfully performing the duty assigned to him. Otherwise it will be more to his credit to decline it.

# Correspondence.

[Communications are solicited from everyone who has anything of value or interest to impart. Items of news, trade gossip, and personal information will be gladly received. Correspondents are requested to write only on one side of the paper. No responsi bility 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.]

### A Seeker after Information.

To the Editor of The Journal : Will George Hill, now or late of Middletown Ohio, tell us what he knows regarding the improvement in Fourdrinier paper machines, pa ented by David Scrymgeour, Boston, Mass. Yours. QUIZ.

# A Disputed Invention.

EAST WALFOLE. Mass., December 24, 1877. To the Editor of The Journal :

The last JOURNAL gives a description of an Improvement in Machines for the Manufact. Thick Paper," said to be patented by David Scrymgeour. Over thirty years ago I applied precisely the same invention to my Fourdrinier machine and used it successfully some fifteen or twenty years, when I substituted cylinders for Fourdrinier es. The only difference between this and mine consists in this: That in this the apron or upper wire-cloth (as I judge from the drawing) passes around its last roll (a) before it reaches the couch-roll, whereas in mine the apron or upper wire-cloth passed around the upper couch-roll, standing, I think, vertically over the lower couch-roll, with boxes in the same stand. I think my plan is the better one. The difference between the two one merely of detail; the principle of both is precisely the same. Indeed I see no new principle about it-hardly a new application of an only an enlarged dandy-rollold one. It is simply one of those contrivances which every paper-maker with brains is constantly applying to his processes. Yours truly, F. W. BIRD.

will run down the mould, making a bad water mark in the paper, which can only be avoided by using a slice that will keep the felt at the proper distance from the mould and not vary with the motion of the coucher. A good arrangement is to make a joirt in the slice, nicely and securely hinged with a number of bras hinges, about one foot apart, the whole length of the slice. Now fasten to the ends of this hinged leaf a stiff bar, bent so as to be out of way of the felt, and so as to rest upon the turned packing edge of the cylinder. Upon the end of this bar fasten a small wheel to run upon the edge of the mould. With this arrangement, by adjusting the end rods of the slice leaf in its place, the edge of the slice will vary as the mould does. If "Cylinder's" vat constructed as to make the bar conn tion inconvenient to arrange, a stiff, open spiral spring with set screws to regulate the distance of the edge of the leaf to the mould might be substituted, but I think the first plan the best as it gives no trouble when once adjusted. For wrapping paper, the depth of setting the

cylinders to give the best results is four inches from the bottom for square vats, and five to six inches for false concave bottoms. I have found that a little variation in the depth of setting does not affect the formation of as much as varying the position of the forming board, and having the draft arrangement properly fixed and adjusted.

As for the coucher's position I obtain the best result by setting the centre or coucher shaft three inches back of a vertical line from the centre of the mould. Setting the coucher back of the axis line of the cylinder tends to increase air blisters and water marks, especially if the coucher winding is hard, and the wet felt is allowed to narrow in width by letting the worn rolls get covered with stock, &c. If "Cylinder observes the foregoing strictly, his difficulties will be greatly diminished, I think. I hope other paper-makers will give their views upon this matter. Yours, &c., H. L. K.

# Some New Patents.

#### To the Editor of The Journal:

It is very commendable in THE JOURNAL to publish in such an elaborate manner the various patents issued for improvements in paper ma chinery, but it appears to the writer that oftentimes the space devoted to this purpose might be better employed, and that some of these patents are neither new or useful, all practical reader of THE JOURNAL must admit. In the issue of December 8 you publish what is called an provement in Apparatus for Making Paper Pulp' from wood and granted to one Fletcher, of Concord. N. H. I would like to ask what is new or patentable about any part of this so-called invention ? The patentee has adopted the Jordan engine, pure and simple, and he certainly cannot claim that there is anything new about the cor rugated or stone bed plate, as used in the ordinary beating engine. As to his methods of re ducing the wood from the log or the use of caustic alkali, it is simply absurd to claim anything original about it, and I am surprised the Patent Office should have allowed such a patent. Some of the devices are protected by specific patents, and all are well known and in common use and in their combined application do not form the basis for a patent. In this view of the matter I am confident that every well informed pa per-maker will agree with me. In this con tion permit me to call attention to another patent patent (for such I suppose it must be called) described and illustrated in THE JOURNAL of December 22, entitled an "Im provement in Machines for making Thick Paper," granted to one Scrymgeour. Th purpose claimed for this invention "is to pro uce a homogeneous sheet of pulp which shall be very much thicker than has beretofore been pro ed in paper-making machines." This, I think, will open the eyes of some of our old paper makers. But let us look a little further into this makers. wonderful improvement that is going to revolu tionize the present system of making paper. The inventor says in his specification, "this inven tion consists in an endless reticulated or forami apron, disposed over the ordinary wire cloth of a Fourdrinier machine (I would here call attention to the illustration in THE JOURNAL), and traveling 'in the same direction, &c., and being of such depth that as the web of pulp passes between such aprons, the water in the pulp is expressed by the pressure, and escapes between the interstices of the two aprons." plain English of this is the application of a second wire cloth on top of the sheet to press out the water, similar to a dandy roll. Now, if the water escapes through the upper wire cloth and between the two, and not down through the Fourdrinier wire, where does it go to? A dandy roll, by its weight, presses the water through th wire, and it runs off under the machine; or if a suction box is used, the water is drawn through the sheet and discharged through the box; but by this contrivance it is claimed both dandy and suction box may be done away with. The inventor further says (and I think this will also be new to most paper makers), that "a limit to the functions or powers of suction boxes consists in the fact that the pulp in the lower part of the web, which passes over them, clogs or obstructs the escape of water from the upper part, and the suction is not of sufficient power to overcome it;" and further, "by the employment of two reticulated aprons, between which the web passes, and thus affording an escape for the water upon both sides, as well as exerting great pressure upon such web, it is claimed that all the water is extracted." &c. Again let me ask. here does the water that is taken up through the top wire cloth, as is claimed, escape? I can not understand how any man at all conversant with the working of a Fourdrinier machine can claim that such a device can in any manner

the slice raises also, and, of course, the water | further says: "Heretofore in the manufacture of such articles it has been found impossible, with any machines in use, to produce a single sheet of pulp of the desired thickness" (this man's experience as a paper-maker must be very limited); "but it has been necessary to units several sheets." This is reversing the generally understood principle in making strong thick papers or boards. The great point to be attained is strength, and this can only be done by uniting several thicknesses, as paper thus made is much tougher and stronger than it is possible to produce in a single sheet of similar thickness, and for leather board and materials of this class this is of the greatest consideration. However, it is not necessary for me to criticise further this and other like "improvements," as all the practical readers of THE JOURNAL will form an opinion on their merits, but it can do no harm to ventilate some of these wonders, and perhaps call more direct attention to their absurdity. The only possible advantage I can conceive such inventions to be to the trade is the consumption of paper required in procuring and issuing the patents.

With a happy New Year to the publisher and his assistants and to the many readers of THE JOURNAL, and kindly wishes for their future welfare, I remain yours truly, COLOR.

#### Changes, Removals, and New Firms.

H. Pander, news dealer, Petaluma, Cal., has sold out.

W. H. Phillips, of The Sun, Pittsfield, Mass., has sold out.

Johnson Armstrong, stationer, New Orleans, La., has sold out.

J. S. Sargent, stationer, &c., Fitchburg, Mass., has sold out,

E. J. Cornwell, bookbinder, Northampton, Mass., has sold out.

R. O. Robbins, printer, Dexter, Me., has sold out to Robbins & Herring.

Samuel S. Chessman, printer, Boston, Mass., has sold out to C. E. Wetherell.

Ansel T. Hitch, news dealer, New Bedford, Mass., is closing up his business. Simmons & Vigo, stationers, Shreveport, La.,

have sold out to L. R. Simmons.

F. P. Merrill & Co., printers, Auburn, Me., have sold out to McKenny & Day.

The Valley Independent Printing Company, Mevendale, Pa., has sold out to Mr. Hawes

The Pennsylvania Salt Manufacturing Company will, on January 1, 1878, remove its New York office from No. 59 Maiden lane to No. 18 Vesey street, where the business will thereafter charge of E. L. Embree. be in

E. Embree & Son, agents for the American Wood Paper Company, will dissolve partner-ship on January 1, 1878, E. L. Embree taking the agency of the Pennsylvania Salt Manufac-turing Company for the States of New York, actiont and Northern New Jersey Conne

The firm of F. Gray, O'Ferrall & Co., Piqua woolen mills, Piqua, Ohio, has been dissolved by mutual consent. The business of manufacturing paper makers' wet and press felts and jacketing will be continued by F. Gray and W. C. Grav of Piqua, and G. H. Adams of Cleveland, Ohio, under the style of F. Gray & Co., who alone will collect all claims due to the late firm, and will settle all debts against the same.

#### Failures.

Ford & Dalziel, paper manufacturers, Port Neuf, Quebec, Dominion of Canada, are reported to have made an assignment.

The property of J. B. Ford & Co. on last Monday was sold by auction by order of the as signee. It vielded \$6,564. The right, title and interest of the firm in the copyright and contract with the author for "The Life of Jesus the Christ," by Henry Ward Beecher, electrotype plates, &c., of two volumes, and the remain of the edition brought \$1,000.

A warrant in bankruptcy has been issued out of the District Court of the United States for the District of California against the estate of John G. Hodge, of San Francisco, who has been adjudged bankrupt upon his own petition, as noted in THE JOURNAL of December 15.

The committee appointed at the creditors' meeting, held in this city, has had no detailed statement of Mr. Hodge's liabilities and assets, but has received a telegram to the effect that such a statement cannot be made until after January 1. The committee has therefore done nothing looking to a settlement of Mr. Hodge's affairs, but individual creditors have been proving their claims through the Board of Trade. int of ihore

was not a perfect security, and had refused bins for three to five days to drain before using. By this system the papers come out to indorse it as such. of the tub in whole pieces, and the printed

It is suggested that we can employ matter is scarcely changed, that is, the our space better than by devoting it letters retain their form and the ink is not to descriptions of processes not new. distributed through the stock. After The point is not a good one. How standing for a few days, as above stated, would the trade otherwise discover whether the alkali contained in the stock saponifies the recent patents, really important in the ink, and sets the coloring matter free, which is easily washed out in the engine. their bearing upon paper-making interests, are adverse to their rights? If the Allen & Mason's system is in almost direct new processes are merely infringements opposition to this. First .- They boil in a upon well known or discarded methods it rotary boiler under pressure, which paris valuable to know, and if new they are tially pulps the stock, and mixes the ink with all the fibres of the stock. Second .certainly important and worth considering. These things are given for the in- They dump the stock into cold water, which formation of the trade, and that they reach has a tendency to set the coloring matter home is plainly shown in three letters and renders the stock harder to bleach. By which we print to-day-among them that treating this class of stock on the open tub which we print to-day—among them that of our correspondent who good-naturedly excepts to, and then justifies our action. the alkali has time to accomplish its work is work in the open two been to be the the place of the mould in the integral is upon the highest outside surface of the mould integration of the mould integration of the mould integrated and the integral is upon the highest outside surface of the mould integrated and the integral is upon the highest outside surface of the mould integrated and the integral is upon the highest outside surface of the mould integrated and the integral is upon the highest outside surface of the mould integrated and the integral is upon the highest outside surface of the mould integrated and the integral is upon the highest outside surface of the mould integrated and the integral is upon the highest outside surface of the mould integrated and the integral is upon the highest outside surface of the mould integrated and the integral is upon the highest outside surface of the mould integrated and the integral is upon the highest outside surface of the mould integrated and the integral is upon the highest outside surface of the mould integrated and the integral is upon the highest outside surface of the mould is the integral is upon the highest outside surface of the mould is the integral is upon the highest outside surface of the mould is the integral is upon the highest outside surface of the mould is the integral is upon the highest outside surface of the mould is the integral is upon the highest outside surface of the mould is the integral is the integral is the integral is upon the highest outside surface of the mould is the integral is the

#### **Practical Suggestions for Cylinders.**

To the Editor of The Journal :

I am inclined to think the cause of water run ning back upon the mould of your correspondent "Cylinder," can be obviated by making a new slice" that will allow of the oscillating motion of the cylinder as it rotates. I am aware and

District Court, is appended in full.

It is understood that, owing to the fact that there has been a division of accounts between New York and San Francisco, and also that there were quantities of consigned goods sold and other goods bought and in transit, the status of which is not definitely known, it is difficult to eliminate the accounts accurately. Some of the Eastern creditors, therefore, think that the schedule so far given is not absolutely correct. A meeting of the creditors is called at San Francisco for January 10, at which place and time the Eastern creditors will be represented. Following is the list of creditors:

Personal Property Tax, San Francisco, Cal. \$461 04 Personal Property Tax, San Francisco, Cal...... S. B. Welsh, San Francisco, Cal...... Joseph Lyons, """ Jacob Apple, "" 25 00 50 00 45 00 Jas. Sutcliff, 45 50 Jas. Coulter. 10 00 Thos. Doyle. \*\* ........ 15 00 George Faulkner, 5 00 E. P. Slossen, 15 00 30 00 40 00 Geo. W. Perkins. 
 Ueb, W. Ferkin,
 40 00

 D. B. Libby,
 "
 40 00

 James Stephens, Rome, N. Y.
 53,000 00
 B. Illfelder & Co., New York.
 200 91

#### PAPER TRADE THE JOURNAL.

D. Appleton & Co., New	York		441	49
E. Faber, New York Liebenroth, Von Auw &	Co. New Y	Fork	8,833 632	
T. Davids & Co., New Yo	rk		502	05
Ivison, Blakeman, Taylor Tower Manufacturing C	ompany, N	lew York.	3,094 546	
Harper & Bros., New Yo A. L. Shipman & Sons, N	rk		223 189	
Dennison & Co., New Yo	rk		64	03
Esterbrook Pen Co., New A. H. Hart & Co., New Y	ork	**********	226 166	
H. Lindenmeyer, New Y	ork			40 92
R. B. Dovell & Co., New Colgate & Co., New York			3,591	72
Joseph Parker, Son & Co. J. Gillott & Son, New Yo			1,809 761	
T. V. Smith, New York	*********		483	
Massachusetts Paper C Mass	ompany,	Ногуоке,	1,036	89
Pultz & Walkley Compar B. & P. Lawrence, New Y	y, Plantsv	rille, Conn	40 152	
Powers Paper Company,	Springfiel	d, Mass	313	78
N. Y. S. B. Slate Company Boorum & Pease, New Y			41 2,538	22 72
Trier & Wolf, New York John J. Murphy, New Yo	ark		75 855	00
H. B. & Mead Manufactu	ring Comp	pany, New		
York G. H. Reay, New York		*******	64 332	79 86
Wiebusch & Hilger Manu	facturing	Company,	185	19
New York Eagle Pencil Company, 1	New York	*********	119	
Howard, Sanger & Co., M Springfield Envelope Co			30	64
Mass			562	87
Plympton Manufacturi ford, Conn				22
Sl.te, Woodman & Co., 1	lew York.			89
A. H. Andrews, Chicago. John Campbell & Co., N	ew York		87	40
J. W. Tallmadge, New Clark's Ind. Pencil Co., N				50 00
W. B. Gorham & Co., N	ew York.		4	50
Adams, Alexander & Co James St. John Slate Co				91 93
O. Englehorn, New York J. E. Potter, New York.				83 00
Embossing Co., Albany,	New York		72	27
E. de Young, New York. C. Whitcomb, Worceste				30 00
Bugbee & Hall, Provider	ice, R. I			75 00
W. A. Mills, New York H. C. Tonge, New York.	********		- 49	12
H. C. Burnett, Chicago. Macmillan & Co., New Yo				10 00
S. Sillman, New York J. Kendall & Co., New Yo			14	07
Ph. Hake, New York			107	85 70
F. W. Wagner, New Yor Waterbury P. Co., New	k			12 50
Nat. R. Publishing Co., N	ew York		4	00
J. M. Adams, New York. F. Vonderhilde, New Yo	rk			50 36
Sheldon & Co., New Yor John Nathan & Co., New	k		87	97
Mann & Co., New York.				00
D. Van Nostrand & Co., N. Y. O. Paper Co., New	New York York			50 00
H. M. Barrows, New Yor	K	*********	7 8,517	00
Herman Boker & Co., N R. I. Cardboard Co., Pro	vidence, l	R. I	1,498	50
F. B. Hobart, New York Wm. Wood & Co., New	York		118 27	50 25
Bradley & Hubbard Man York	ufacturing	Co., New		50
D. C. Pratt, New York			165	60
C. H. Ditson & Co., New Morgan Envelope Co., Sp			117	25
Seymour Paper Co., New E. E. Bliss, New York	York	*****	274 71	
Geo. H. Hoey & Son, Nev	York	********	65	91
Kiggins, Tooker & Co., N Geo. Scott, New York	ew York	******	1,100 145	
Continental Card Co., Ph John Foley, New York	iladelphis		367 1,081	
Geo. Wostenholm & Son.	New Yor	k	28	55
H. Kohnstamm, New Yo P. Garrett & Co., Philade	lphia	**********	28 185	
P. Garrett & Co., Philade E. L. Pendexter, New Yo E. S. Johnson, New York	rk	********	16 67	
D. & J. Sadlier & Co., N	ew York		105	62
F. S. Hasbrouck & Co., N Keuffel & Esser, New Yo	ew York.		27 211	
B. B. Hill, Springfield, M. B. Dove & Co., San Fran	188	********	1955 0	77 72
D. Hicks & Co, "			41	
Women's Co-operative Pr Francisco		*********	4	91
Bartling & Kimball, San San Francisco News Co.,	Francisco	*** ******	146 20	
A. L. Bancroft & Co.,	45	*** *****	135	86
A. D. Remington, Son Bros.,			304	
Tobin, Davidson & Co., Weil & Woodleaf,			14 161	98
Frankenthal & Co.,	5.0		223	59
Armes & Dallam, Feigenbaum & Co.,			383 98	
Goodyear Rubber Co.,			62	78
H. G. Langley, Westall & Co.,	6.5		4	50 80
Crane & Co., I. N. Choynski,			122 2	90 94
L. H. Bonestell,	48		2,008	41
F. D. Hatfield, W. H. Hatfield,	**	******* **	1,654 262	04
H. Smith, J. T. Bonestell,	**		6,000 300	
Bank of California, London & San Francisco I	1.6		17,500	00

#### H. Levy & Co., New York ..... 49 450 00 Z. Crane, Jr., Dalton.... Wilder & Co., New York... J. C. Merriam, Springfield, Mass.... 748 11 425 00 256 22 Reubens & Co., New York..... 196 08 Nichols & Hall, New York, 707 13 Due on account of sales of consigned goods .... 3.590 55 (about).... Due on goods bought in New York since Nov. ----Chattel Mortgages. NEW YORK CITY. Mortgagor. Mortgagee, Amount. Degener & Weiler. \$200 eph Fink F. Hirschy & Co . . . . . . F. Paulet . . . . . 1. Henry Luding . . . . . . . . . . W. Radde et al. (R) ...1,350 ... 1,000 James Owens..... Washington Nat'l Wm. H. Rees BROOKLYN. Thomas C. Rees. . 2,000 NEW YORK STATE. Arthur B. Elliott, Sunday Trajan, Troy ..... EASTERN STATES. WESTERN STATES. M. J. Carr, Toledo, O. H. W. Belden, Milwaukee, Wis Martin Erickson, Chicago, Ill..... .747 SOUTHERN STATES. Norm -A chattel mortgage purporting to be given by Stephen A. Potter to Woolworth, Ainsworth & Co. and recently reported in this paper, should be re-versed so as to read Woolworth, Ainsworth & Co. to Stephen A. Potter. The same discrepancy exists in the official index of the mortgage as filed. Fires. F. A. Ward, printer, Winchendon, Mass., has been burned out. J. K. Coolidge, stationer, Helena, Ark., has been burned out. Insured. A fire broke out in the Brooklyn (N. Y.) Stean Paper Mill, about two o'clcck in the morning of cember 22. It was quickly extinguished. The loss was \$400, covered by insurance. In Town. J. H. Appleton, Holyoke, Mass.; L. C. Woodruff, Buffalo, N. Y.; P. W. Hudson, North Manchester, N. H. General Notes. It has been found that the Jarvis' patent furnace will burn green peat. This is an important item in economy of fuel. Among the enterprising and reliable packers of rags and paper stock in this city can be men-72 tioned Joseph Libmann, whose card appears on the last page of this issue. Mr. Libmann has large experience and ample facilities. He makes a specialty of new rags and paper shavings. 66 The new Sheridan "Automatic Clamp Lever Paper Cutter" is automatic in its movement, not requiring any adjustment. It is simple and is claimed to be the most perfect cutter in the market. E. R. & T. W. Sheridan, 25 Centre

street, New York, are the manufacturers. Many persons are very sensitive to electrical changes of the atmosphere. One gentleman is said to have been so much affected by the conditions which precede a thunderstorm that he became sick. He was advised to wear a fine silk vest as an isulator, and he did so. The result was that life was made much more bearable to him. there may be forces at work in nature for the de-there may be forces at work in nature for the de-there may be forces at work in nature for the de-there may be forces at work in nature for the de-tection of which man is not endowed with the currency, and 2%c. to 2%c., gold, according to

# TO PAPER MANUFACTURERS.

Having recently accepted the agency of a *new pro-*tess for the manufacture of Wood Pulp (Mechan-cally), 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 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, December 28, 1877. THE MONEY MARKET, -There has generally been an active demand for money at 7 per cent. on call on all classes of collaterals, with 1-32 and interest bid at the close.

Government bonds were fairly active and firmer, except for 5-20's of 1868, which fell to 110. The 6's of 1881 coupon sold freely at 109%. Gold has fluctuated only little during the past week, the variations not exceeding 1/4 per cent. and this change occurred on a single day. The following are the quotations for the week:

to-day. \$4.82½ for 60-day and \$4.86 for sight, and the market is firm. The following are the rates to-day. Sterling, 60 days, \$4.81 to \$4.81¼; sterling, sight, \$4.84 to \$4.8414; cable transfers, \$4.8514 to \$4.8614; commercial sterling, prime long, \$4.79½ to \$4.80; commercial sterling, good long, \$4.78 to \$4.79; Paris, bankers', 60 days, 5.22½ 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, 5.21% to 5.20; do., sight, 5.18% to 5.16%; Reichsmarks (4), bankers', 60 days, 941% to 94%; do., sight, 951% to 95%; Guilders, bankers', 60 days, 391% to 40; do., sight, 401/ to 40%.

THE PAPER TRADE.-The period of time known as "holiday week" is as barren of interest as usual, and the condition of trade may be spoken of as unchangeable, and void of anything new. The better feeling manifested in regard to loft-dried tub-sized Fine Writings is still maintained, and Super-sized and Calendered Book Papers hold their own fairly. In Ordinary Wrapping Manillas the market is without much change, and a feeling of depression prevails. Prices do not rule as firmly as dealers wish for, and a superabundance of stock offered at vary-ing figures tends to unsettle matters. In Straw Wrappings there is little change. Stocks are plenty, prices low, and purchasers few. The trade in News Papers has fallen off during the week, and no stocks will probably be laid in until after the new year begins. Binders' Boards undergo little change, and in Straw Boards the same state of affairs exists.

FOREIGN RAGS AND PAPER STOCKS .-There is nothing new to say regarding this mar-ket. Freights are not expected to be lower until after January 1, and there continues to be no inducement to make shipments at rates which prevail here, and importations continue principally to supply orders given before freights were advanced. These figures, of course, are quoted as market rates, and some new transactions are re ported, in a small way, as having been consummated at the same prices. Buyers still have the advantage, and sellers have been compelled to yield. Low-grade Cotton Rags continue in moderate request. In Paper Shavings and Linen Rags transactions have not been numerous. The arrivals for the week foot up 2,002 bales Rags; 328 bales Old Papers; and 499 bales Manilla Stock.

JUTE BUTTS .- The only arrival we have to record is the Nairnshire, 1,651 bales, of which about 500 bales only are unsold, the rest being purchased to arrive by manufacturers. Trade has been a little backward during the past week. and sales have been small. Holders are firm, but buyers are unwilling to meet the advance We quote: Spot, 2%c., time, 2 11-16c., asked. This perception of the presence of electricity has been used as an illustration of the argument that 2%c, gold, is asked. Sales to arrive during the

the quantity of business done this week over the White Shirt Cuttings, No. 2..... previous two weeks, but prices do not rule as Mill Assorted Whites ..... previous two weeks, but prices do not rule as satisfactorily as they might, and dealers are generally out of sorts. The members of the combination are reported to have adhered pretty rigidly to the 3½c., but manufacturers outside

Strained at \$1.80; Common do. at \$1.70; E at \$1.90; F at \$2.00; G at \$2.12 $\frac{1}{2}$ ; H at \$2.25; I at \$2.30 to \$2.35; K at \$2.50 to \$2.87 $\frac{1}{2}$ ; M at \$3 to \$3.87 $\frac{1}{2}$ ; N at \$3.75 to \$3.87 $\frac{1}{2}$ ; W at \$4.25 to \$5.

CHEMICALS .-- There is little change in this market. Sales have occurred as follows: 50 casks Bleaching Powders, at 1%c. currency; 50 tons Soda Ash, 48 to 56 per cent., at 1.80c, to 1.85c. gold; 40 drums Caustic Soda, 70 per cent., at 4c. gold; 25 tons Sal Soda at 1.30c. gold; 50 barrels Lump Alum at 2%c. currency; 50 barrels Ground Alum at 21/2c. currency; 25 barrels Potash Alum at 21/2c. currency; 50 barrels Concentrated Alum at 2%c. currency; 80 barrels Natrona Porous Alum at 3%c. to 3½c. currency; 10 tons Aluminous Cake at 25%c. currency: 5 casks Yellow Prussiate at 24c. currency; 10 casks Bichromate at 121/2c. currency, and 10 tons English China Clay at \$18 gold.

COAL .- The failure of the coal companies to form new combination has kept sales of both Anthracite and Bituminous quiet, and apart from form a new combination has kept sales of odd Anthracite and Bituminous quiet, and apart from deliveries upon old contracts there have been few transactions. Saward's *Coal Trade Journal* says: "It does appear strange that an interest of such considerable magnitude should not con-tain among its managers such elements as to be able to agree upon a method of doing business that would avoid all appearauce of a com-bination to monopolize, and unduy advance the price of Coal. Meetings of the managers of the various companies should be held, and the con-dition of the market sufficiently canvassed, and if there is not the demand for the output, shut down. Any business man would uphold them in this method of controlling their business. We hope to see better times in the Coal trade next season; particularly is it to be desired, that if one party makes a low price, to keep trade, the others will have sufficient wisdom not to put the price of the remainder of the output down to such a figure." The quotations at tide-water are as follows: Lump, \$3.50; Stove, \$3; Broken, \$2.85; Chestnut, \$2.60; Egg, \$2.85; Pea, \$2.25.

# NEW YORK MARKET.

PRICES CURRE	N T.	
Paper Market.		
DEALERS SELLING PRICE Flat Caps and Ledger, 1st class	80.94 18 16 15	0000
Flat Caps and Folios. Blotting, American Blotting, English Book, super-sized and calendered Book, super-sized and tinted. Book, extra machine finish, low grade	14 91 12 15 11	99999
Book, extra machine finish, tinted Book, good quality, all rag. Book, good quality, all rag, tinted Book, No. 1, Shavings & Imperfections Book, No. 2, Shavings & Imperfections	18 11 12 10	9000
News, rag and wood News, straw News, Common	227	0000
Hanging, Superfine, No. 1 Hanging, Superfine, No. 2 Hanging, Superfine, No. 3 Hanging, Machine Satin, No. 1	184 10 93	0000
Hanging, Superfine, No. 1 Hanging, Superfine, No. 2 Hanging, Superfine, No. 3 Hanging, Machine Satin, No. 1 Hanging, White Blank, No. 1 Hanging, White Blank, No. 2 Hanging, White Blank, No. 3 Hanging, Curtain Hanging, Buff Hanging, Buff Colored Papers, Tobaca Colored Papers, Tobacaco Colored Papers, Tobacco Colored Papers, Tobacco Colored Papers, Tobacco Colored Papers, Tobacco Colored Papers, Tobacco Colored Papers, Tobacco	73.57	0000
Hanging, Buff Hanging, Brown Colored Papers, Double Mediums Colored Papers, Glazed Mediums	43 103 18	66.98
White Tissue, 24 × 36, Fream	1.70	0
Manillas, Flour-sack, cream Manillas, Flour-sack, drab. Manillas, Rope, unbleached Manillas, No 1, light weight. Manillas, No 1, heavy weight. Manillas, No 2, manuellas, Manillas, Soria Manillas, No 2, manuellas, Manillas, Soria	10 113 10	00000
Manillas, Ordinary Wrapping Manillas, No. 2 Manillas, Bogus. Fissue Manillas, ft II count, weight and		0000
Issue II × 15. other sizes in proportion Hardware, light colored Hardware, No 1. glazed Hardware, No 2. glazed Binder's Boards, & ton	00	0000
Binder's Boards, & ton Straw Boards, air-dried, 150 sheets, %ta Straw Boards, air-dried, 120 sheets, %ta Straw Boards, air-dried, Album, # ton	\$5.00 50.00 50.00 55.00	(Q).1
Straw Boards, air-dried, No. 1. 7 ton. 1 Straw Boards, steam-dried, No. 1. 7 ton Straw Boards, steam-drie 1, No. 2, 7 ton Straw Boards, steam-dried, No. 2,	50.00	000
Straw Boards, air-dried, 120 sheets, @tn. Straw Boards, air-dried, 120 sheets, @tn. Straw Boards, air-dried, No. 1, % ton. 1 Straw Boards, steam-dried, No. 1, % ton Straw Boards, steam-dried, No. 2, % ton Straw Boards, steam-dried, No. 3, % State, % ton	50,00 50,00	020
36 × 40	1.18 1.00 75 70	9000
AND X 100	1913	0

#### 63400 7 City White 5% New Cotton New Cotton No. 2, White Strips, light Strips, dark 434 tton Canvas are offering to deliver their products in this mar-ket at much lower figures, and it is reported on good authority that actual sales have occurred at 3c., while even lower prices have been of-fered. STRAW.—The market is steady and prices are unchanged. We quote 55c. to 60c. for Long Rye; 45c. for Short Rye, and 45c. to 50c. for Oat. ROSINS—Are quiet, but there is no change in prices. The following are the quotations: Good Strained at \$1.80; Common do. at \$1.70; E at 534 21.6 25% 1.00 35% 8 5 83% 8 8 514 814 41(@ Shavings and Old Paper Shavings and Old Pape White Collar Cuttings, all paper.... White Collar Cuttings, musila lined. White Shavings, No. 1. Soft White Shavings, No. 1. Soft White Shavings, No. 2. Mixed Shavings, No. 2. Mixed Shavings, part white Ledger and Writing. Solid Stock. Book Stock, No. 1, light. Book Stock, No. 2, light. Prints. 54 4 436 234 8 Prints Pure Manillas Bogus Manillas and Hardwares. Commons 1%6 136 13400 13400 13400 80 Binder's Board Cuttings..... Straw Board Cuttings..... English Rags, &c. New Cuttings, cotton . Easer Fines London Fines, cotton. Outshots, cotton. Seconds Extra. Thirds. New Frint Tabs. Checks and Bines Light Prints Light Prints. Black Calicoes. First Canvas Linen. Black Bagging. \*\*\*\*\*\*\*\* Dark Fuscaans First Canvas Linen Second Canvas Linen Black Bagging Gunny Bagging, No. 1 Gunny Bagging, No. 9 Mixed Bagging, No. 9 Mixed Bagging, No. 1 Rope, Manilla, tarred. Jule Ropes Trissesses Rope, Manilla. Rope, Manilla, ta Jute Ropes. Jute Tbreads.... 34 English Old Papers and Shavings English Old Papers and Sh Hard Shavings, No. 1 Soft Shavings, No. 1 White and Colored Shavings, No. 1... White and Colored Shavings, No. 8... Cream Shavings. Paper-collar Cuttings. Ledgers, Briefs and Letters Newspapers and Pamphlets, extra. Old Newspapers. Broken News and Letters. New Books, Solid Folios Old Blank Books. 4360 Brown Papers. White and Buff Railway Sheets Railway Tickets Hamburg Rags, &c. F, long bale.... , square bale.... -----F F, tong bale F, square bale square bale Square bale fine Blue Linen, light color... S oguare bale S long bale. S long bale. あないの 10,30 29 17 14 25 16 1° 18 436 ng, No. 1 254 Shirt Cuttings, squar 100000 - 554 18 13 11 10 8 88289 TANKES F R. square bale..... C F X, square bale ..... Extra Fine Blue Cotton. C F B, square bale..... 8 734 16 14 Rope. 1000 (tarred)...... 896 4 836 Old Papers. 1989 G Old Book Paper .... Old Printed Books. 54 Imperfections White Shavings Colored Papers. Printed Papers. Writing Papers 5 111/2 13 11 434 334 Leghorn and Genoa Raga. No. 1 Linens. No. 2 Linens. No. 3 Linens. 246 1814 1134 1316 916 816 6340 6% No. 1 Cottons. No. 2, Cottons No. 3, Cottons 544 5 ordinary stripes 294 28 214 (B) 214 (B) 214 (B) 214 (B) また Alexandria Rags. 10000 1 Whites 60.00 60.00 65.00 55.00 55.00 50.00 Memel Rags. SPFF. 53.00 6 54 44 4X 35,00 4%3 FG... LFB. Trieste Rags. SPF. SFFX. SFB 536 5%@ 436 41/10 Konigsberg Rags. SPFF ... - 0 6

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London & San Francisco Bank, San Francisco 12,000 00	requisite senses.	location and quality. Stock in New York and	$16 \times 22$	38 @ <u>_</u>	FF. 436@ 45
W. H. Doxtater, agent for A. D. Johnson,	SPECIAL NOTICES.	Boston aggregates 15,000 bales.	$18 \times 28$	40 @	L F BJapauese Rags. 4986 494
Ban Francisco	SI BOIRD HOIRCESS	DOMESTIC RAGS The market during the	$15 \times 20$	23 @ 30 20 @ 21	Whites
Nichols & Hall, Boston	[Insertions under this heading will be charged	past week has been in a very fair state, and while poor qualities are still in poor request, a	13 × 18 12 × 16	98 Q IN	Colors 214 214 214 214 214 214 214 214 214 214
Maynard & Noyes, New York 518 34	50 cents a line. Payment invariably in advance.]	slightly increased call has rewarded some hold-	11 × 15 Straw Wrapping, ₩ D.	18 6	Alum, lump
J. J. Murphy, New York 1,759 06		ers of low grades. Good qualities remain in good	Straw Wrapping, P D Tea Papers, 16 sheet quires-	276@ 274	Alum porous
C. B. Hewett & Bros., New York, 888 29 Thomas Garner, New York	PARIS	demand, and bring satisfactory rates. City	$12 \times 18$ $14 \times 20$	35 @ 40	Aluminous Cake, Pochin's Patent 2%@ —
A. S. Barnes & Co., New York	I IIIIN	Whites are still reported firm, and sales are re-	Woolen Rags.	45 @ 50	Anti-Chlorine
Woolworth & Graham New York 126 86	TRITTINDGAT BITDOGTOTON	ported of 150 bales No. 2 at 31/c. ; 200 bales Good	Comforter Stock	18 0	Bi-Chromate Potash, Scotch, currency 14
Van Antwerp, Bragg & Co., Cincinnati 2,558 92 Fitzgibbon, Messer & Co., New York 205 18 Pacific Mutual Managers (Co. New York 205 18	HNIVERSAL EXPERIMENT	City Seconds at \$2.50.	White Woolens Blue Grey Stockings		Bleaching Powders currency 1.50 a 1.60
Fitzgibbon, Messer & Co., New York 205 18 Pacific Mutual Insurance Co., New York 1,500 00	UNIVERSAL EVIDELLON.	BAGGINGS There have only been few	White Stockings	18 @	Caustic Soda, 60 per cent. gold 4%6 — Clay, China, English, per ton, gold18,00 @ 20.00 Clay, China, English, to arrive, per
E. Todd & Co., New York 404 11		transactions during the week, and those that	Reds. old	10 @	ton gold
		have occurred have been to the interest of pur-	Reds, new Shirt Clippings Mixed Softs, free of Carpets	7360 25	Clay, South Carolina, per ton
S. Raynor & Co., New York 4,574.59	MANUFACTURERS of American goods who de-	chasers. The increased call for No. 2 Gunny	Seamed Cloth	7 @ 732	Clay, Terra Alba, American, per ton. 15.00 (18.00
Massaant Paper Manufacturing Co., Holy-	sire to exhibit at the coming Exposition will	Baggings on the other side tends to retard ship-	Skirted Cloth Light Skirted Cloth	5 10 5%	Copperas, American
oke, Mass	be furnished with blank applications for space and	ments, and goods arriving are generally to fill old contracts. Of the late sales we hear of 35	New Dark Clips New Light Clips	14 @ 15	Prussian Blue, dry
Wm. H. Parsons & Co., New York	all necessary information for their guidance without	tons Manilla Rope at 3%c.; 25 tons No. 3 Gunny	New Black Clips New Blue Clips	16 @	Orange Mineral gold 10 @
Albion Paper Co., Springfield 879 44	any charge, upon application to the undersigned. If	Bagging at 2c.; 45 tons No. 1 Gunny Bagging at	New Felta	8160 4	Rosins, common strained, per bbl 2.10 @ 2.50 Rosins, good strained, per bbl 2.15 @ 2.60
Carter, Dinsmore & Co., New York 114 19	desired, exhibitors will be put in communication with	2%c.; 20 tons No. 2 Gunny Bagging, p. t.	New Fancy Shirt Cuttings New Fancy Linsey Cuttings	12 0 14	Rosing low, No. 2, per bbl
A. G. Elliott, Philadelphia	responsible parties, who will take full charge of their	OLD PAPERS There is little to say regard-	New Satinets, clean stock Seams and Satinets	2 6 234	Rosins, good, No. 2, per bbl
Rhode Island Card Board Co., Providence 2,379 32	exhibits and attend personally to the proper repre-	ing this market except that transactions are	Delaines, stripped for extract	2 0 24	Rosins, good, No. 1, per bbl
J. E. Hayes & Co., New York 1,004 94	sentation of the same before the Jurors of Awards.	comparatively few and prices irregular. The	Black Shoe Lastings Blankets	21208 8	Rosina, extra pale, per bbl 5.00 6.00 Sal Sode, gold
Continental Card Co., Philadelphia 400 00	Address EDWARD CONLEY.	sales include 5 tons ordinary book stock at 2%c.;	Wool Carpets Mixed Carpets	4 @ 414	Boda Ash, caustic, gold 1.95 @
A. H. Cobb, New York 102 00 G. H. Whitcomb & Co., Worcester, Mass 1,381 58		10 tons Ledger stock at 4%c.; 20 bales pure Ma-	White Linseys	8 0	Soda Ash, carbonated, gold 1.85 @
Hampshire Paper Co., South Hadley Falls 229 76	74 Duane Street,	illas, 2%c.	Mixed Linseys	11/2@ 2	Soluble Blue
L. de Jonge & Co 1,843 18	NEW YORK.	WOOD PULP There has been an increase in	White Shirt Cuttings, No. 1	7360 836	Spanish Brown, dry

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# THE PAPER TRADE JOURNAL.

414	THE PAL	PER TRADE J	OURNAL.
Sugar Lead, brown	Leghorn Rags. P.P. No. 1 Linens	CONLEY'S	ROB'T WETHERILL & Co., Chester, Pa.
Venesian Red, American	8         S. No 2 Linens.         5346         536           7         T. No. 3 Linens.         4466         434           R         6         534         534           F, No. 1 Cotton         53460         534         534           S, No. 2 Cotton         33460         4         7           T, No. 3 Cotton         25466         334         346           B, No. 4 Cotton         25466         394         394           White Linen Sicily Rags         33460         354         394	Nill and Machinery Agency. FOR THE PURCHASE, SALE, OR EX-	
BOSTON MARKET. Paper Stock. Mill Assorted Whites	SPF Russian Rags. 5 @	CHANGE of PAPER, COTTON, WOOL- EN, GRIST and OTHER MILLS	Builders.
Cotton Canvas         55/60         54/2           Cotton Canvas, No. 2         39/40         4           Junny Bagging, No. 2         19/40         2/4           Kentucky Bagging         4/20         5           Hard Woolens, old         4/20         5	E.E. 44@ 4½ I.L. 4@	ALSO, MACHINERY, MILL SITES and PRIVILEGES. Estimates given for New Machinery at very	
Soft Woolens, old         10 6         11           Hard Woolens, new         84/66         9           Soft Woolens, new         10 6            Jute Butts.         29/60         2%           White Collar Cuttings.         5 66         6           White Collar Cuttings.         6 66         64	Alum, Concentrated, Red Star.     234       Alum, lump, currency     235       Alum, pround, currency     2466       234     234       Alum, potash, currency     2466       234     236       Alum, potash, currency     2466       36     334       Anti-Chlorine     4346	much lower prices than can be obtained else- where.	Boiler Makers.
Hard White Shavings, No. 1	Bleaching Powder,         1%         1%           Caustic Soda, gold.         4         4         4           China Clay, English, ¥ ton.         16.50         22.50	send a list and description of the same to the under- signed, who offers for sale a large line of Paper-	SHAFTING AND GEARING.
Mixed Shavings (% white) 3 (6	China Clay, Star,, Currency, 14.50 @ 16.55 China Clay, American, @ ton, cur'y 10.00 @ 14.00 South Carolina Clay, @ ton, 12.00 @ 13.00	Making Machinery and Mills, including the following: One 72-inch Rice, Barton & Fales Fourdrinier ma- chine, carries 32% foot wire, and consists of 8 iron	LOBDELL CAR WHEEL COMPANY,
Hardware and Manillas	Terra Alba, American, 200	dryers, 36x78, sizing machine and lay-hoy. Top size roll and both top press rolls are gun metal; bot- tom press rolls are covered with rubber. The whole machine is a complete order throughout and now running on writing papers. Price, \$4.000, set up in	The Oldest and Most Extensive Manufacturers of Chilled Car Wheels in this example then Geneter
Leghorn Rags.         6%4(0)         7           S, No. 2 Linens.         5%4(0)         6           T, No. 3 Linens.         5%4(0)         6	Extract Logwood	running on writing papers. Price, \$4,000, set up in mill. One 76-in., one 72-in., one \$2-in., one 42-in. and one 36-in. Fourdrinier Machine.	
P, No. 1 Cottons	Rosin, No. 2.         2.30         @ 2.50           Rosin, No. 1.         240         @ 2.75           Rosin, Pale.         4.00         @ 5.00           Sal Soda, cur'y         1.40         @ 1.50           Soda Ash, caustic, for 48 P cent. gold         2566         -	One 36-in., one 42-in., one 48-in., one 52-in., one 54-in., two 63-in., and one 72-in. Cylinder Machines. One hundred and twenty-seven Skeleton Dryers, 36 in. by 80 in., with pulleys, gears, &c., all complete	The undersigned having examined the
Alexandria Rags. Vhites	Soda Ash, refined, for 48 2 cent. gold 21/3 -	and nearly new, used in drying animal-sized writing papers. One Hydraulic Press, made by the Holvoke Ma-	mends the same to the United States Centennial Commission for award, for the following rea-
Smyrna Rags. 274/0 3 1/1es	Sugar of Lead, white	chine Co., and as good as new : platform, 33 × 50 in., opening, 7 ft. 3 in., diameter of piston, 8 in., diameter of corn r rods, 3 in. One stack of Chilled Calender Rolls, consisting of two 13 in., and five 6 in., all 92 in. long on face, with	sons, viz. ;
eds	Venetian Red, American	two 12-in., and five 6-in., all 62 in. long on face, with Stands and Driving Gear; all complete. Six Chilled Calender Rolls, 12 in. diameter, 28 in. long on face.	ing rolls intended to be part of a complete
anvas, Good	Yellow Ochre, American	Three Couch Rolls, one rubber and two copper, 12 in, by 68 in, wide. One Breast Roll, 12 in, by 68 in.	paper machine. These rolls are of cast-iron, chilled at the surface in casting, and thereby
inen Canvas	CINCINNATI MARKET. Paper Stock.	One stack of six Super Calenders, 31-in. face. Four stacks of Straw Board Calenders, from 30-in. to 40-in. face. Two Rag Cutters, one Rope Cutter, one Cane Cut-	made hard, like tempered steel. They are separately ground according to a highly im-
sconds, Country	Cents. City, No. 1 Whites 5 Mill Assorted Whites . 5 Nill Assorted Whites . 5	Two Rag Cutters, one Rope Cutter, one Cane Cut- ter, 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., in-	proved plan, and are so true that, when placed together, they bear upon each other through
inders' or Tar Board Cuttings 1 $\omega_2$ — ommon Papers	White Cotton Canvas, No. 1	cluding one 90 H. P. Corliss Engine, and one 80 H. P., Putnam Machine Co, make. Four Double Flue Steam Boilers and one large Locomotive Boiler.	out their entire length. This exhibit has the exceptional merit that the rolls are
emp Rope	Country Whites, No.1. 514 Country Whites, No.2. 414 White Collar Cuttings 6 Country Whites, No.3. 345 Country Blue Rags 342 Manilla Envelope Cut- manilla Envelope Cut-	One large Steam Pump (G. H. Dean & Co.) Two Rag Dusters, one Rag Thrasher, two Devil Dusters.	not only GROUND true but CAST by the exhibitor.
lucs	Rags	Two 48-in., one 54-in., one 62-in. and one 84-in. Paper Cutters, one 62-in. Hatch Cutter. One Gould Patent Engine. One Kingsland Patent Engine.	(Signed) JAMES M. WILCOX, Signature of the Judge.
uperfine Book	Rags     2%     Sized Papers     3%       Shoe Cuttings, new     5     News Papers     2%       Colored Cotton Rags     2%     Flour Sacks     4%       Manilia Rope     3%     Common Papers     80	One Standing Press, with gun-metal screw, plate 34 in. by 48 in. Twelve Cutting Presses, from 27 in. to 45 in. wide. Six Making Cylinders, of different sizes.	CHILLED ROLLS
rdinary Rag News	Hemp Rope 442 Straw Board Cuttings 90 Gunny Bagging 3 Binders' & Tar Board Hard Woolens, old 3 Cuttings	Two 60 in. Case Water Wheels; nearly new. Ten Water Wheels, different sizes. One Snow's Water-Wheel Governor. One 40-in. Leffel Water Wheel Case.	For Paper Machines, Rubber, Brass, Copper, Rolling Mills, &c.
anilla, No. 2	Soft Woolens (Mill) 81/2   City Gunnies, No. 2 21/4	One which beact which which chack. 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	The vast quantity of iron used daily in the business of this establishment permits the very best selection for the composition of CHILLED KOLLS. The long experience of Mr. Geo. G. Lobdell in making chilled castings, and who personally directs the selection, enables them to make
ardware, No. 2	CHICAGO MARKET. Rags and Paper Stock.	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 to-	CHILLED BOLLS UNEQUALED IN QUALITY AND GROUND AS PERFECTLY AS ANY OTHERS. GEO. G. LOBDELL, Pres. W. W. LOBDELL, Sec. P. N. BRENNAN, Treas.
ather Boards 2 th 5 6 15	City Whites, No.1 5 (65)4 Mixed Shavings. 3/4(63)4 Seconds & Blues 4 (64)4 White Shavings	gether with an extensive list of Miscellaneous Ma- chinery, including fifteen Rag Engines, including five 36-in, rolls, one 38-in, roll, one 42-in, roll, two Beat- ing Engines, rolls $38 \times 40$ in., four Rotary Rag Boilers,	M. S. BULKLEY. J. G. DITMAN & CO., J. G. DITMAN.
eacher Board, counter	Manua Rope     34 @ 34     Book Fapers,       Gunny Bagging, 24 @ 3     mixed	5x16 feet. One Rotary Boiler, 6½ feet by 24 feet. Three Wood or Straw Dizesters. One set of Artesian Well Tools.	WHOLESALE PAPER AND RAG WAREHOUSE. 30, 32 and 34 South Sixth Street, Philadelphia, corner of Jayne Street.
huminous Cake, gold	clear     7%@8       Wrapping Wins     4%       New Clips (free from sat)     12       @13     Seamed Cloth	One No. 8 Armstrong Heater. One "Lift" or Elevator Wheel for Cylinder Ma- chine, 48 in. diameter, 17 in. wide: new and complete. About 7,000 Spruce and Pine Loft Poles, 700 of them	
hum, American lump.     24       hum, American Potash     34       hum, ground, Concentrated     3       nti-Chlorine     34       Chromate Potash, Scotch, cur'y     134       Chromate Potash, American, cur'y     134       12     134	FOREIGN MARKETS.	10 feet long, the remainder 12 feet 4 in, long. One W. O. Hickok's Pennsylvania Ruling Machine. Three sets of Press Board Polishers.	
Chromate Potash, American, cur'y 12%@ 13 leaching Powders, gold 1.30 @ 1.35	London Market Report.	He also offers his services as a Consulting Engineer and Expert in the erection, alteration and equipment of paper mills, and in paper-making processes. With	
iackley Blue, gold         —	LONDON, December 15, 1877. There is not much news to report as having occur- red during this week Home trade in general was	and expert in the erection, atteration and equipment of paper wills, and in paper-making processes. With an experience of over twenty years in the manufac- ture of paper, gained both in this country and in Europe, he purposes to make his services valuable to whoever shall require them.	
ay, American, V ton	slack, as paper manufacturers here oid not wish to increase their stocks before the close of the year, and from America orders were but sparingly received in	EDWARD CONLEY.	
10     10     10       me, common, @ bbl     1.30     1.40       ussian Blue, @ D.     62     65       ussiate Potash, American     23     62       sin, no. 2     24     24       sin, No. 2     24     24	our market. RAGS.—Fine white linens moved in small lots for	No. 74 Duane Street, N. Y.	4
sin, No. 1. 21.60 3" ren, pale	home consumption for immediate use; strong mid- dle classed linens were well looked after. Fine white cottons neglected, but middle and low graded cottons	FOR SALE. One Iron Tub 300 <sup>th</sup> . Engine, with Iron rolls, 28x32	Si Distanti di Si
Ma Ash. gold	were more inquired after and prices are firmer, there being a rumor about that some extensive sales have been made to America.	in good order, with washer and pulley. SMITH PAPER CO., Lee, Mass.	
igar Lead, Brown	WASTE PAPERS—Unchanged, and although there was only very little done, holders are not inclined to lower their quotations.	JARVIS' PATENT FURNACE	- de later n
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	The French Market.	For the Setting of Steam Boilers,	LARGEST STOCK AND GREATEST'ASSORTMENT IN THE COUNTRY J. G. DITMAN & CO.
PHILADELPHIA MARKET.	PARIS. December 10, 1877. PAPER AND PAPER RAGS.—Business continues in a very depressed state, and manufacturers are	Will save twenty-five per cent. in fuel, or make an increase of twenty-five per cent. in Steam Power.	<b>KNIVES FOR PAPER MILLS</b>
Paper Market.         0         20           late	making no purchases of rags. WOOLEN RAGS.—The mild weather has come to	Will burn screenings with small mixture of soft coal, tan, saw dust, green wood, and WET GREEN PEAT,	AND
ine Book, white and tinted 11 @ 12	render transactions in this branch even duller than they were, and purchases are strictly confined to daily needs.	mixed with screenings.	Paper Cutting Machinery. PAPER MILL FLY BARS AND BED PLATES,
ag News, No. 1 9 03 9½ rdinary Rag News. 8½ 9 9 traw and Wood News. 7½ 734	Advertisements.	GENERAL AGENT, No. 239 CONGRESS STREET, BOSTON, MASS,	RAG CUTTER AND TRIMMING KNIVES.
raw and Wood News. 7560 754 eached Manila, No. 1. 89/200 99/2 rdinary Manila 8 8 89/2 ogus Manila 5 6 6 raw Wrapping. 29/40 3		NATRONA	LARGE AND DIFFICULT KNIVES A SPECIALTY. All Work Fully Warranted in Every Respect.
lazed Hardware	A PAPER MAKER, EXPERIENCED IN all the finer grades of Printing, Colored and Super-Sized and Calendered Papers, also fine Manil- las, Plate and Envelope, is open to an engagement		Send for Cuts of our
Ingrased rardward         1/200         1/200           Issue Maila         24×36         1.00         1.25           Issue, white, 20×30         1.45         (0         1.80           Gea Papers, 14×20         60         (0         55           ea Papers, 13×18         40         45         6           raw Doards, air-dried, 12 ton.         \$50.00         6         74	as Superintendent. Parties having moderate sized mills and wishing to improve their product, can learn of a thoroughly competent man by addressing	POROUS	IMPROVED ANGLE BED PLATE, THE BEST BEATING PLATE IN USE.
iraw Boards, steam dried, # toz50.00 @ 55.00 Binders' Boards, # ton	RELIABLE, care this office.	ALIM	TAYLOR & CORSER,
eather Boards	WANTED-BY A TRAVELER, A PRACTICAL man with a good connection among Stationers, Printers, Lithographers, &c., in Newfoundland, P. E.	FOR FOR	Riegelsville, Warren Co., N. J.
White Rags         54/6         55/6           fill Assorted White Rags         57/66         6           White Shirt Cuttings, No. 1         7         6         7/46           Vilte Shirt Cuttings, No. 2         6         6         6/54         6/54           Jotton Canvas, No. 1         5/56         6         6/54 </td <td>I., N. S., N. B., Quebec and Ontario provinces, a situation to sell paper and other printing materials.</td> <td>PAPER MAKERS' USE.</td> <td>F. S. TAYLOR, G. A. CORSER, OF LATE FIRM</td>	I., N. S., N. B., Quebec and Ontario provinces, a situation to sell paper and other printing materials.	PAPER MAKERS' USE.	F. S. TAYLOR, G. A. CORSER, OF LATE FIRM
Cotton Canvas, No. 2	Address A. B., office of this paper.	FREE FROM IRON AND FROM	TAYLOR, STILES & Co., Musconetcone, N.J. A. HANKEY & CO., Rochdale, Mass.
Dulors 240 241 Jule Butts 240 274 Junny Bagging 254 Kentucky Bagging 440 5	WANTED-BY A TRAVELER A SITUATION to sell paper and paper stock; has a practical knowledge of the manufacture of alkalies, &c. Ad- dress W. W., office of this paper.	FREE FROM IRON AND FROM EXCESS OF ACID.	BELT HOOKS The Best Metallic Belt Hook
Manila Rope         3346         334           Soft Woolens         746         8           Hard Woolens         466         34           Hard White Shavings, No. 1         3466         34	WANTED-BY A YOUNG MAN WHO HAS some knowledge of the paper stock business, a position as salesman with some well established	Two pounds of it will size as much paper as three pounds of Potash or Ammonia Alum.	LEATHER OK KUBBER BELTS
Soft White Shavings, No. 1 43460 5	house; present salary not so much an object as a chance to improve. Address PAPER STOCK, Box 5,514, N. Y.	Pennsylvania Salt Mfg. Co.	These Hooks have been thoroughly tried for eight years in all places-in Machine Shops, Cotton, Woolen and Paper Mills-and all who use them admit that they are the best and
dixed Shavings, No. 1	Paper Machinery-Also Paper Mill,	140 South Delaware Ave., Philadelphia.	the durability of the Hook, wear and tear, and time in mending belts.
Sort White Shavings, No. 2. 4460 446 Mixed Shavings, No. 1	At New Hampton, Orange County, N. Y. For sale	212 Washington Ave., St. Louis, Mo. AGENTS :	Address WALTER O. TALCOTT,
Hardware and Manillas	or to let, separately or together, and cheap. Apply to N. & M. NILES, 14 Wall street, New York.	W. M. ELLICOTT & SON, Baltimore. MOREY & CO., Boston. E. L. EMBREE, New York.	Box 630, Providence, R. I.





