

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

VOLUME VII.-NO. 30.

## NEW YORK, JULY 27, 1878.

## WHOLE NUMBER 221

### Correspondence.

### Alkali Manufacture.

SOME RECENT IMPROVEMENTS IN THE PROCESSE CONNECTED THEREWITE.

By James Mactear, F. C. S., F. I. C. [Continued.]

TABLE V.-LITRES OF GASES.

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chamber:     69,754     6.318     10       O for conversion of S0, into S0,	19.875 15.597 18.831 16.697 1.885 12.815
SO <sub>2</sub> 69.754     6.318     10       O for conversion of SO <sub>2</sub> into SO <sub>2</sub> 34.700     8.151     4       SO <sub>2</sub> into SO <sub>2</sub> 34.700     8.151     4       N equal to O fixed in Fe <sub>2</sub> O <sub>2</sub> and SO <sub>2</sub> 409.109     45.206     71       O fair in excess     103.815     9.403     14       N of air in excess     103.815     9.403     14       N of air in excess     133.815     9.403     14       Gases entering second chamber :     47.782     4.461     10       O r conversion of SO <sub>2</sub> 23.776     2.220     4       N equal to O fixed in Fe <sub>2</sub> O <sub>2</sub> and SO <sub>2</sub> 405.805     1.00     100       O of air in excess     103.815     9.668     2     1.315     1.323       N of air in excess     103.815     9.668     2     1.323     1.00     2       Gases entering third chamber :     100.000     2.16     100.000     2.16	19.875 15.597 18.831 16.697 1.885 12.815
N <sub>3</sub> U <sub>4</sub>	15.527 18.831 16.697 1.885 32.815
N <sub>3</sub> U <sub>4</sub>	18.831 36.697 1.885 32.815
N <sub>3</sub> U <sub>4</sub>	92.815
N <sub>3</sub> O <sub>4</sub>	92.815
Gases entering second chamber:     47.782     4.461     10       SO <sub>2</sub>	
SO <sub>2</sub>	000.000
O for conversion of SO <sub>2</sub> into SO <sub>2</sub>	000.00
SO <sub>2</sub> into SO <sub>2</sub> ,,     2.110     2.200       N equal to 0 fixed in     409.109     46.868     1.00       Fe <sub>2</sub> O <sub>2</sub> and SO <sub>2</sub> ,,     103.815     9.668     2.00       Nof air in excess,     103.815     1.23     2.12       No f air in excess,     103.135     1.23     2.12       I,071.091     100.000     9.16     3.16       Gases entering third chamber:     1.01     100.000     9.16	
Gauses entering third chamber:	19.759
Gauses entering third chamber:	14.854
Gases entering third chamber:	17.908 27.257 2.752
Gases entering third	41.690
chamber:	
SO <sub>2</sub> 27.365 2.600 16	000.000
	49.496
N equal to O fixed in { 499.109 47.971 1.8	03.896
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	79.372 44.5:24 4.805
1,040.440 100.000 8,7	02.063
Gases entering fourth chamber:	
SOa 14,814 1,402 1	00.000
O for conversion of SO <sub>3</sub> into SO <sub>3</sub>	48,908
N equal to O fixed in Fe <sub>2</sub> O <sub>2</sub> and SO <sub>2</sub> { 499.109 48.892 3,4	86,859
O of air in excess 108.815 10.169 T N of air in excess 305.204 38.722 2,7	95,909 61.590
1.010 .120	9.187
	81.808
chamber:	00,000
O for conversion of 3.302 .336	47.674
Nequal to O fixed in )	
Fe <sub>2</sub> O <sub>3</sub> and SO <sub>3</sub>	14.884 59.100
N of air in excess     395.294     39.137     5,3       N <sub>3</sub> O <sub>4</sub> 1.315     .130     .130	59,100 55,704 18,482
1,010.040 100.000 14,0	95.9 4
Gases entering sixth chamber:	
SO <sub>1</sub> 2.616 .961 1	100.000
O for conversion of 1.136 .113	48.425
Fe. O. and SO 499.109 49.748 19.0	079.090
O of air in excess 103.815 10.347 3.5 N of air in excess 395.294 39.400 15,1	968.463
1.010 .101	110,627
	10.627 50.268
Gases entering absorb- ing towers:	110.627 50.268 251.873

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#### sidering, worked under normal conditions, with the last chamber containing acid of say 90° to 100° Twaddel, it will be found that a very large Trade Topics. proportion of the nitrous compounds in the acid exist in a state of oxidation equal to N2 O5. It is chiefly to this we owe the wear and tear of the last chamber, more especially when excess steam has been carelessly allowed to enter the chamber and dilute the acid, the lead in such cases being often cut round the surface line of the acid as with a knife.

It is after consideration of facts and figures such as these that I have introduced the follow-ing improved system of working the chambers, which, extremely simple as it is, has shown great promise of reduction in the wear and tear of the lead of the chambers, and has also resulted

in a considerable saying in the amount of nitrate of soda re quired.

The improvement consists in causing the acid in the series of chambers to be kept in constant circulation towards the inlet of sulphurous acid gas. I prefer to attain this object by the use of a self-acting apparatus, which, designed many years ago by Mr. Blair, deserves to be more

the apparatus and its mode of operation can be s en in Richardson and Watts' Chemical ing, has its motive power supplied by three tur-Technology, vol. L. part V., page 217. By means of this or other convenient apparatus, the acid of the first chamber, which contains  $SO_3$ , is thrown into the last chamber, and we have the  $N_2 O_6$  in the acid in it decomposed, and  $N_2 O_4$  thrown off; we are therefore able to reduce to an extremely small amount the nitrous com-pounds in the acid of this chamber, and not only so, but it is found that the quantity of nitrate of soda required to work a set of chambers upon this system is considerably less than under the usual method is required. Further, the acid may be safely kept at a considerably higher degree of concentration, to the extent of 10° to even 15° Twaddel, and the danger of loss of

of aqueous vapor and dilute acid on the  $N_2O_4$  and  $N_2O_5$ is reduced very greatly. GROUP II-DECOMPOSITION OF COMMON SALT.

In connection with this group of processes, I have no completed improvements to lay before you, unless it may be the application of the testing apparatus described under sulphuric acid for checking the escapes. By means of this apparatus daily and weekly average tests are easily obtained, and found most useful and satisfactory.

GROUP III.-DECOMPOSITION OF THE SULPHATE OF SODA WITH CARBONACEOUS MATTER AND CARBONATE OF LIME INTO CARBONATE OF SODA AND SULPHIDE OF CALCIUM.

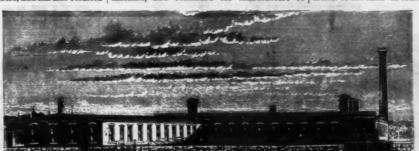
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Notwithstanding the imm

Holyoke and the Paper Trade.

[Continued.] The visitor to Holyoke, passing down Canal street, will find just beyond the great bridge, which crosses the river below the dam, the mills of the Crocker Manufacturing Company. The building known as the Crocker Mill, No. 1, was built in 1870 by D. H. and J. C. Newton, and was originally intended for the manufacture of collar paper only. The following year it was bought by the Crocker Manufacturing Company, which was organized with a capital of \$60,000, and I. S. Crocker as President and S. S. Crocker as agent and treasurer. The new company added new calenders, super-calenders, and a new machine, and conti ed the manufactu



#### MANUFACTURING COMPANY, NO. 1.

ier, and a cylinder-machine, together with the

rag-room, store-room and repair shop. Not hav-ing room enough in Newton's Mill, the Crocker

Company bought an adjoining building, known as the old Albion Mill. This mill, which is a

capacious structure, two and a half stories high,

built of wood, is devoted to the manufacture of

book, news and colored medium papers, and,

anything but a free performance-the gentle whose mill was in trouble had to pay all the expenses, and these ware not slight. A large number of members were generally present, and they had to be well "treated" in the mill or in floor is the engine-room, with ten 250-pound engines, and in another room is the machinery for dusting and thrashing. The lower floor cona neighboring inn. tains, besides the office, a fine 76 inch Fourdrin-

tled in the nearest mill. Anybody refusing to

comply with these rules was placed under a

virtual ban, and even when masters could not

find workmen. The way of settling trade dis-

putes was somewhat more primitive than those

adopted in these days, but probably more effica-

cious. One certain mill was selected as a place

ed. These congresse

magnifi

of meeting, and here very important que

The meeting at Lissen in Thuringia in 1696 was composed of more than 100 masters and journeymen, and that held at the mill of Petershütten, near Ostend, in 1745, of 84 members. It was hard times for the masters; the journeymen who took part in these meetings were, of course, sure of a good time, while those who stayed at home had to be paid and fed extra well owing to the scarcity of hands. In fact we are told like the other, is driven by three turbines. It that if the journeymen left they were sure of is known as the Crocker Manufacturing Com- food, shelter and entertainment wherever they went. They had, therefore, to be petted. Pars of the present day will therefore see

that troubles were not un-known to their predecessors. If the mill owner spoke against the moral conduct of the journeymen they went in a body to his e, asked for lodging, and formally ate him out of house and home. If he complained to the authorities he could get no workmen afterwards. The initiation fees for apprentices ranged from \$30 to \$200. This sum was spent in a general carousal. These high fees and the spree ing tendencies of the mill

and contains two of Daniel's cutters and another | hands brought the trade into disrepute among parents. The abuses came to such a pass that the Chamber of Glogan resolved to form paperin this mill, which is afterward run through a makers into a separate guild which could only hold its meetings in presence of a royal commis-

British Notes.

[FROM OUR REGULAR CORRESPONDENT.]

18 PATERNOSTER ROW, LONDON, E. C., J July 18, 1979.

in those days were discussed with as much vivacity as ever exhibited at a straw board The past week has seen no change in trade Markets are a trifle stiffer, if anything, but it is a makers' convention, an envelope makers' conclave, or a wood pulp gathering. If one mill more temporary movement which always taken place at the half year. Many paper-makers conoffered more for rags than the regular price, or tried to get in with those aristocrats, the ragtract for six months, and as July progresses these contracts fall out and have to be renewed. pickers, there was an immediate uproar, and a general council had to be called to decide on the At present there is an undoubted rise in chemicals, and it may be owing to this. Paper is still erits of the case. If there was trouble between very low and likely to continue so. I cannot masters and men, the congress "ran" the mill or mills until see any prospect of a change at present. Cer-tainly the Eastern question, the bugbear of months' duration and the fruitful source of all the matters were arrangcommercial woes of the past year, is on the point of being settled, and next week will say OUT lasted sometimes a Prime Minister and colleague back again from week and longer, and the Congress, where a true trump card was played in the Cyprus affair. Business, if the the proprietor of the mill in which it was war were the cause of the dullness, ought to im-prove now, but I do not think it will yet awhile. held received the ent rent of one thaler per day. A protocol was read; Our raw material markets are much the same as last week. Rags are steady, with not a great many foreign inquiries. Strong linens are well the testimony was carefully written looked after, but white linens and cottons are somewhat slow of sale. Seconds are in fair dedown, and the ses-sion generally lasted mand for home consumption. Gunny is still scarce, and what can be had is bought for your five hours. The vote side at market rates. Waste papers are quiet and trade generally is dull. Chemicals have risen a figure and are firmer. Bleaching powder has gone up to 25 f. o. b. Liverpool, and cream caustic can't be had at anything under 210 f. o. b. Liverpool. Ash keeps steady. There are still about twenty paper mills in the

market, and considering the wretched state of trade this is a fair number. Some of the number have been to sell for long enough. Nobody seems inclined to try Ilford Mill. There is some talk of starting a new London daily in the liberal interest. It is proposed to introduce a jour-nal differing in size and matter from the present newspapers of the day. Such a change will be very welcome indeed.

The paper trade abroad is not flourishing. A ndent says that in Italy the state of af-COTTON fairs in the paper line is disastrous, bad trade and ruinous competition being the prime agents. More than one paper-maker in Piedmont is said to have purchased printing machines in Ger-many, intending to print for nothing such works as stereotyped lesson books, in order to get rid of some portion of their large stocks.

I notice one of our trade journals, in speaking of the Paris Exhibition, says: "There appears to be but a very languid interest taken by the paper trade generally in the Paris Exhibition." I quite believe it. I do not believe one of our trade journals has a notice of the Exhibition except the Bookseller.

The Berlin exhibition of paper and stationery opens on Tuesday next. I am afraid our trade take a particularly and especially languid interest in this exhibition. From all I hear, I think very few English people will exhibit. But if possible. I intend going over that THE JOURNAL may be seen there even in humble form.

The fibre controversy goes on apace here. Wood is being pushed hard everywhere, notwithstanding the chances of bamboo. I saw some very good press boards made of wood,



duster. Seven engines, one of them a Jordan, are on the lower floor, and prepare the pulp used 62-inch Fourdrinier machine. The same floor

erally known. A very good description of collar paper and engine-sized flat card, bristol, of the majority formed the decision. This was ing, has its motive power supplied by three tur-bines, and is arranged as follows: On the upper

BO3	methods which from time to time have been pro- posed for the production of alkali, the process invented and worked out by Leblanc and his associate Digh, still holds its own for the sim- plicity of its operations, and the low cost and abundance of its primary raw materials. That it has remained almost without alteration dur- ing over three-quarters of a century, is due to a large extent to the elaboration of a theory of its decomposition by Dumas, which, based on the quantities of the various substances used in practical working, and founded on the idea of the incompatibility of carbonate of soda and of sulphide of calcium in presence of water, unsupported by one reliable experi- ment, has acted as a bar in the way of advancement in this direction. Dumas reduced	The total number of hands employed by this company is 105, of which about one third are females. Since April of this year the company has increased its capital stock to \$80,000, and its products enjoy a reputation which is fairly earned. It engages largely in the manufacture of a peculiarly colored and ornamental paper, under a patented process which it owns. This paper is used for safety tickets and other pur- poses. The company is supplying a number of railway companies with a special design of ticket paper, each company being protected in	with charcoal he transforms this salt into sul- phide of sodium; this is dissolved in boiling water and treated either with oxide of copper, or peroxide of iron at a boiling heat. The met- al unites with the sulphur and remains insolu-	German goods, last week. A New York gentle- man saw them too, but said he could beat them at the price. With all due respect to your citizen and your nation generally, I think he told a cram. I also think there are a good many crams told in the trade, and especially by foreigners. As an instance of what "whoppers " are going about, I will mention foreign straw. There is a large business doing over here in foreign straw. I thought I should like to have a piece of this cake, so I bothered about a good deal and found out the following facts (!): First, that Mr. A. could buy any amount of straw in France at 48 fr. per ton. This means 40s., now add to this, say, 15s. for freight and behold 55s. per ton de- livered in London. I was told by an English paper-
The nitrous compounds have throughout been calculated for the sale of simplicity as $N_2 O_4$ , and no notice has been taken of the anount of nitrous compounds absorbed by the acid in the various chambers. This is, however a consider- able element when dealing with the loss of ni- trous compounds, as the amount in the acid run from the chambers under the more usual con- ditions of working varies from about 15 per cent to 30 per cent of the nitrate of soda used, depending on the strength of the acid in the chambers, and the more or less rich character of the gases in nitrous compounds.	the composition to a formulæ : $2 Na_{3} SO_{4} + 0 Ca CO_{3} + 13 C.$ $2 Na_{4} CO_{3} + 3 CaO, 2 CaS + 10 CO + 7 C;$ corresponding to a proportion in the mixture for decomposition of: Sulphate of soda	Paper-Makers in Olden Times. [Continued.] A regular code of laws and punishments was in force among the German paper-makers. No person was allowed in the trade who had com- mitted theft. Somewhat more impracticable nowadays was the exclusion of men who had committed adultery or of any one who had mar- ried a girl of immoral character. No matter what injury might be done one workman by another it was forbidden to have recourse to the law under penalty of expulsion. All dis- putes between masters and men had to be set-	oxygen in place of sulphur, and a strong solu- tion of caustic soda is the result. It is question- able whether this process would answer on a large scale, as it appears probable that the decomposition would be incomplete between the metallic oxide and the sulphide of sodium. But the author of the invention believes it to be quite feasible and that it will prove a more economical process than that which is now in use.—London Month- ly Mag. of Chem.	straw delivered in a French port was 70 fr., and unless 1,000 tons were to be had at one go noth- ing could be done even at 70 fr. I was then told by the same paper-maker that he was only giving 56s, per ton for straw delivered in the Thames. Another paper-maker said he only gave 48s., and so on. The French merchant

livered at their mills. This would put the straw up to our own standard. Now, here is a pack of crams about a simple thing like straw. Good business could be done here, especially in these times, if there were not so much cunning and smartness and sharp practice, which are supposed to distinguish a good man of business. What nonsense it is to say that French straw can be bought in any quantities at 48 fr. when French paper-makers are actually giving 100 fr. on the spot for it. Also I made a specially low offer of caustic to a Paris firm. This offer was direct from the makers-a most reliable Lan-cashire firm. The Paris people said they could buy it delivered at Paris for the same money-a very deliberate and barefaced cram-for the simple reason that nobody here would sell goods and take the responsibility of delivering them in Paris, and especially at about £1 per ton below actual current market value for bank It is so stupid to expect people to believe in such non

Markets.-Coals-Steady at following prices: Wallsend, Hetton, 17s.; Lambton, 16s. 6d.; Tees, 16s. 9d.; Hetton Lyons, 15s. 3d.; South Hartlepool, 15s. 6d.; Thornley, 16s.; Tunstall, 15s. 3d.; Wear, 15s.; Boner's West Hartley's, 15s.; East Wylam, 16s. Ships at market, 34; sold, 17; contracts, gas, &c., 13-30; unsold, 4; at sea, 10. Metala-English iron, pig, £17 to £17 2s. 6d.

Rags and other Fibres-Firmer, but prices much the same. New linen cuttings, 27s. 6d.; new cotton cuttings, 27s.; linen, S. P. F. F. (No. 1), 36s. 3d.; S. P. F. F. (No. 2), 21s. 6d.; S. P. F. (No. 3), 18s. 6d.; F. F. (No. 4), 16s. 3d.; white cotton, 15s 6d.; blue linen (No. 1), 17s.; do. (No. 9), 14s. 6d.; blue cotton, 14s.; gray linen (No. 1), 14s.; do. (No. 2), 11s. 6d.; colored prints, 11s.; jute baggings, Ss. These prices are free on board at Hamburg. Esparto as dull as ever, and all wood pulps as usual.

Chemicals.-Market firmer and prices up a little. Cream caustic soda, 60 to 62 per cent., £10 to £10 5s.; sodn ash, 2%d. per per cent., 48 to 52 per cent. A parcel of 50 tons of bleaching powder was refused sale at £4 17s. 6d. this week, so we must quote this article at £5 free on board in hard wood casks-all free on board Liverpool. W. F. C.

### Manufacturing News.

#### RASTERN STATES.

The employees at the Cumberland Mills paper mill, Cumberland Mills village, Me., have had another reduction in wages.

The Winnipiseogee Paper Company, Franklin, N. H., is having an addition of ten feet built on the front end of the machine-room at its No. 2 mill

The Keith Paper Company, of Turner's Falls, Mass., pays an annual tax rate of \$2,185, and the Montague Paper Company, of the same place, an annual tax of \$3,852.

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The corporation valuation of the property of the Southworth Paper Company, of Westfield, Mass., is \$102,200, and of the Agawam Paper Company, of the same place, \$67,500.

The L. L. Brown Paper Company, South Adams, Mass., is putting a new wall around its unill pond on Commercial street.

The Seymour Paper Company, of Windson Locks, Conn., has reduced wages 10 per cent., but will pay every Saturday night, instead of monthly as heretofore.

The Whiting Paper Company, Holyoke, Mass. sent off thirty-five tons of fine paper one day last week, supposed to be the largest single ship ment ever made from any mill in Holyoke

The Montague Paper Company is experimenting in the manufacture of paper for newspapers made wholly of wood pulp

MIDDLE STATES. The Flat Rock Mills, Philadelphia, Pa., will shut down on August 1.

S. A. Rudolph will begin next week to erect a two-story machine and millwright shop at his Ashland Paper Mill, Philadelphia, Pa.

A portion of the Silver Lake Paper Mill, at sonville, N. Y., was demolished on Thursday, Gib July 11. The mill was running at the time, when an addition to the main building, 40 feet long, 12 feet wide, and four stories high, fell with a terrible crash over the falls, carrying with it about 30 feet of the machine-room and about half of the machine. Two sons of the proprietor, G. W. West, narrowly escaped with their lives by leaving this room a few seconds before it fell to get a drink of water. Mr. West was away from home at the time of the accident. and on his return commenced to remove the ad make preparations to rebuild, which

## New Patents.

No. 204,263. Moth-Proof Barrels and Boxes.-M. L. Thompson, Brooklyn, N. Y. REISSUES

THE

No. 8,256. Manufacture of Paper-Pulp from Wood. -Harrison B. Meech, Chatham Village, N. Y., assignor to Benj. F. Brown.-Patent No. 106,710. ated August 23, 1870. No. 8.257. Manufacture of Paper-Pulp from Wood. -Harrison B. Meech, Chatham Village, N. Y., as-signor to Benj. F. Brown.-Patent No. 106,710,

dated August 23, 1870. No. 8,358. Manufacture of Paper-Pulp from Wood. -Harrison B. Meech, Chatham Village, N. Y., as-signrr to Benj. F. Brown.-Patent No. 106,710, dated August 23, 1870.

### American Wood-Pulp Engine.

The accompanying illustration shows the design of a wool-pulp engine manufactured by the American Wood-pulp Engine Company, of Hartford, Conn. This is a new and improved engine for grinding and disintegrating the fibres of wood and reducing it to a suitable form for use in the manufacture of paper. It is asserted that this machine possesses advantages over others in that it requires less power to drive it: that its capacity for producing is unequaled, and that the quality of the p oduct is unsurpassed

by any grinding pulp engine. The company's facilities for the manufacture of these engines are such that it can, at short notice, complete any order that may be given. The materials used are of the very best quality, the workmanship is guaranteed to be of the high-est order-strength, durability and capacity of production being the chief objects sought-and the makers say that the machine can be fur-

posed for the purification of waste engine and machine waters. Let the fact that the mill-owners of the North Esk-who have already adopted every "practicable and reasonably available means" of purification-are going forward in the present session of Parliament with a bill to empower them to take a pipe to the sea at

PAPER TRADE JOURNAL.

RICH'D B. FANDELL.

R. O. STURGIS.

a cost of over £100,000, testify to the insuf-ficiency of them all. No doubt much has been accomplished on the stream referred to. I have myself devoted nearly four years to the prob-LONDON, E. C. lem, and considering the extent of the industry and the smallness of the flow of water, the re sult is not to be despised; still, however, as the law of Scotland stands, the riparian properties are entitled to demand absolute purity, even at the expense of stopping the industry altogether. So long as common law is allowed full sway in MATERIALS this direction the Rivers Pollution Prevention Act of the year before last will be a dead letter. The old law is far more powerful and certain in its action than the new. The latter aims at the purification of streams from manufacturing refuse, having a care that the industries involved RAGS. are not unduly harassed, whereas the former comes down unreservedly upon all polluters, demanding immediate and complete cessation GUNNIES. of the pollution at any cost. I am convinced that no process of filtration is applicable to the purification of the waste discharges referred to until at least the grosser portion of the impurities are removed, either by simple subsidence or by precipitation with mical agents, and I am further convinced that purification by precipitation with chemical agents is a delusion. No doubt the sedimentary matter may be very thoroughly separated, and an apparently pure discharge be the result; LONDON, E. C. Caustic Soda, Soda Ash. Soda Crystals.

> THE (LIMITED,)

AND WOOD PULP BOARDS

L. KNOBLAUCH.

London, E. C. DEALER IN ALL KINDS OF

SPECIALTY, one that will involve a constant outlay.

Better than all the schemes of purification to which I have alluded, however, is that which begins in the mill itself. Let the boiling, cooling, and bathing liquids be so worked that the boiled material may go into the engines so clean as to require little further washing: a better out-turn will be the result, and one half of the pollution obviated; and let almost the whole of the machine water be collected and rinsed, which will often be done at a profit, and will also conserve the purity of the streams. If precautions are taken under each of those heads the volume and intensity of the polluted liquids to be puri-fied will both be reduced and the object aimed at made more easy of accomplishment. An efficient settling system should be capable of containing from 24 to 36 hours' flow of the discharge: if the liquids are longer in the system they are apt to putrefy, especially in hot weather, with a result which is certainly no improvement upon the original condition of things, Every settling system should be provided with the means of discharging and draining the sludge as it accumulates. If the drainers be well constructed the sludge should lift in a caked form, easy of removal to the rubbish heap.





AMERICAN WOOD PULP ENGINE.

nished on terms which will make it for the interest of manufactures to use no other. One of these engines can be seen in operation at the Lake Mahkeenac Mills, Curtisville, Stockbridge, Mass., upon order from the company. The manufacturers have put a low price on these ngines, and do not charge a royalty or compel the buyer to take a license.

### Technology of the Paper Trade. BY W. ARNOT, F.R.S., EDINBURGH.

[Continued.] The estimation of alumina is a matter of some nicety and not to be undertaken by any but experienced chemists. It cannot be done by any ple volumetric method, such as I have de scribed as suitable for soda and chlorine, and even when estimated by a trained chemist in a well-appointed laboratory great care must be taken to secure strictly accurate results. Alumina is precipitated from the filtered solution by nia, but the precipitate is liable either to be too light or too heavy just as certain precautions are observed or neglected. For details of the process I must refer to Fresenius, or any of the other leading analytical authors.

Of the minor chemicals we need only briefly notice hyposulphite of soda, or antichlor, used to neutralize the acidity of the bleached half-stuff. The action of this agent has already been described. The agent itself is composed of a sulphur acid containing a relatively large propor-tion of sulphur to the oxygen combined with

but I have yet to learn of a process that will reduce the grains of polluting matter, soluble and suspended, per gallon to a lower point than a good settling system without any chemicals will do, especially if the effluent water from the settling system is passed through a simple ash filter before being discharged. Chemical are not to be had gratuitously, and their application on a large scale involves both plant, steam, and labor. It is better, therefore, to spend a little more money upon a well arranged system that will work itself, and require com-paratively little attention, than a little less upon

will take about six weeks. The wall was built at the water's edge, and is supposed to have become undermined.

The Spring Lawn Mill, at Lewisville, Pa., has been shut down two weeks on account of dull business and to enable the hands to take advantage of the harvest work.

#### FOREIGI

The Mita Paper Mill, Tokio, Japan, is in good condition, and is making "title deed" paper under orders from the Government. The product is 4,000 pounds in twenty-four hours. These works are also making hand-made paper from bamboo. The Vice-President of the company owning this mill is Ichiro Murata, who studied paper-making at Holyoke and other points in this country for some time.

The exhibits of De Naever & Co., at the Paris Exhibition, are said to be very fine. They connist of samples of wood or other vegetable substances, and of pulp made from the different succedaneums. This firm is engaged in the manufacture of pulp and paper at Willebroeck and Crapheim, Belgium.

I am convinced that men do more harm to

-Lord Byron.

elves than ever the devil could do to them.

it, and sodium oxide, with the constitution of which we are already familiar. Like most other crystalline bodies its composition does not vary very much; if contaminated to any serious extent it will be by the admixture of foreign crystalline substances deliberately added to reduce its value.

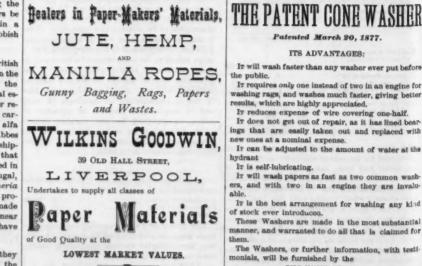
The strength of the oil of vitriol supplied to the mill will be ascertained by an ordinary hydrometer, while its freedom from color will sufficiently indicate its purity for all paper-making purpa

Before discussing the question of the disposal of the impure water discharged from various parts of the paper process, I may state that a udable effort has been made by Wm. W. Ladelle to reburn the waste lime resulting from the causticizing process and the preparation of bleaching liquor. I have seen the process in operation, and while it has not yet establish its caim to be a complete success, it is an effort in the right direction, and will, I trust, ultimateaplish all that can be desired. The disly acc posal of these waste products is really a vexing estion, and I am sure we must all wish Mr. Ladelle and his co-workers success in their efforts to convert what is at present a gigantic nuisance into a useful agent.

Many and varied have been the schemes pro-

ALFA AND RAMIE FIBRE IN ALGERIA. -British Consul-General Playfair, in his last report on the trade and commerce of Algiers, states that the traffic in alfa continues to increase, several establishments being in course of erection for reducing it to pulp on the spot, thus saving car-riage and freight. The largest quantity of alfa is gathered in the subdivisions of Sidi-bel-Abbes and Nascara, and almost the whole of it is ship ped at Oran. The latest return (namely, that for 1876) shows that 58,759 tons were exported in that year to England, France, Spain, Portugal, and Belgium. The ramie plant (Bachmeria nivea) promises to become one of the staple products of the country. The experiments made with it in the province of Oran, especially near Relizane, and in the plain of the Habra, have been satisfactory.

When men grow virtuous in their old age they are merely making a sacrifice to God of the devil's leavings.-Swift.



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ds THE PAPER TRADE JOURNAL is the recognized nication in matters of trade m vehicle of commu terest, we will be glad to receive correspondence from all parts of the country. Information and mggas tium upon paper-making topics are especially valu-able, and manufacturing news and personal items are equally acceptable

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ATTENTION is called to a notice and illus tration of a new and improved wood pulp engine on our second page.

THE Mita Paper Mills, Japan, send us a

JOURNAL, care of the Yale Postal Bureau, American Section, Paris Exposition. Files of THE JOURNAL will be found in the collective exhibit of American publishers at the Exposition.

HOUSEWIVES are in growing fear of the little bug which commits such depredations upon carpets and makes them worthless. The moth appears quite innocent beside it. The paper trade, however, are coming to the rescue, and-so great and diversified are the uses of paper-propose to put a stop to the ravages of the insect. A carbolized paper is now in the market, and promises to be an effectual lining to carpets, thereby preventing loss and vexation of spirit.

THE movement looking to a conference

of the paper trade has at length taken more form, and there is some prospect that a convention will be called. What such a meeting will do is another thing, and the question invites the attention and careful reflection of every member of the trade. We are informed that there was a preliminary meeting of paper-makers at the Massasoit House, Springfield, on last Saturday. This was an informal gathering to discuss the situation, and to consider whether to call a general convention of the book, news, manilla and writing paper makers. There was a general and decided expression of opinion in favor of it, but it was thought expedient to leave the subject to the deliberation of a committee consisting of Messrs. Whiting, of the Whiting Paper Company; Marshall, of the Montague Paper Company; Crocker, of the Crocker Manufacturing Company; Brown, of the Carson & Brown Company, and Chapin, of Chapin & Gould. These gentlemen were intrusted with power to decide and to designate the time and place. The decision of the committee will be given on or before the 30th inst., and will be announced in our next issue. The feeling of the trade ought to be so responsive that the committee cannot hesitate to take the final step suggested. We need not reiterate our argument as to the condition of the market and the necessity for bettering trade. It is enough to say that if the paper-makers would be helped they must take the remedy in their own hands and apply it, otherwise they need not look for relief.

#### MINOR BRANCHES OF PAPER-MAK-ING.

One of the greatest consolations of those cheerful souls who do not believe the prophecies of there being soon not enough work to do in this world is to point to the continually new branches which are shooting out from every trade and manufacture, and to the endless new wants of fashion and progress. It is in many of those minor walks of trade that fortunes are more surely made. In time, however, these get over. run or are superseded by others, but the serve their purpose. The ephemerides have in every scnse of the word, their day Some years ago a few artisans began t manufacture on a small scale in this city and their modest quarters were soon insu ficient for their trade. The modest littl factories of paper boxes, artificial flower

and a hundred other articles grew up to immense proportions, which were only equaled in some cases by the self-import-settinel Company, Milwaukee, Wis (Real).... Maynar & Tedford, St. Louis, Mo...... and a hundred other articles grew up to The Papier Zeitung-which follows one of the great aims of a true trade paper. to make known new discoveries in the trade and to give useful suggestions to its readers-had a recent article on the manufacture of "artificial" papers-that is, papers imitating various substances and used for purposes outside of stationery. These subsidiary papers have in the aggregate a large sale, and some of them would, if popularized, have an extensive use in this country. Among them are test paper for wine: mineral ivory paper, which is much used by painters, &c.; mirror paper, which enables us to remedy the bare spots on looking-glasses; mother-of-pearl paper, which gives all the outward show of the

carv prices, but which by right should be log, of Jacksonville, Fia., was held at the made by the paper-maker and sold by the stationer.

In these days of political and commercial aggressiveness it will not do for stationers to allow druggists to supersede them, and to use the sodawater fountain and Lubin's perfumery as adjuncts to some stationery purchase. The tendency of the times is to concentrate, and the shop of the period is evolving into a bazaar. "Who's to be who?" being the question, it is evident that the stationer can tack on more new articles than any other, and that most people will prefer to give him their custom than to patronize the dry-goods man or the pharmaceutist, where paper and cognate matters are given that amount of attention which a disciple of Isaac Walton gives to the worm which he puts on the hook.

#### Answers to Correspondents.

H. H., Zanesville .- We do not know of any work that treats specifically of the construction you speak of. Rules of this sort are rather gen eral. We may at some early day take up the subject, and "lay down the law."

M. & A., Bellows Falls.-Hand & Elsworth. 51 Beekman street, New York, furnished the samples of South American flore. The other fibre came from John Roberts, Toronto, Domin ion of Canada.

M. L. H., Waterbury .- It would be rather in vidious for us to discriminate in the way you ask. Prices, too, are open to negotiation. sult Lockwood's Directory or our advertising columns, and you will be able to make a selection of paper-makers who will supply all of your wants

W. W. H., Somerset.-We cannot advise any You must exercise your own judgment If your facilities are as you state, you might work profitably, although the business is very There are largely engaged in at present. number of processes. Consult Edward Conley, 5 Beekman street, New York.

Changes, Removals, and New Firms,

H. W. Jenkins, printer, Reed City, Mich., has sold out

W. M. Keith, printer, Smith's Falls, Ont., has sold out to Thompson, & McLeod.

Joseph Lyght & Co., stationers, Hamilton Canada, are selling out at auction.

Mayfield, Otley & Patton, stationers, Nashville, Tenn., have dissolved partnership.

Salisbury & Co., publishers of the Enquirer Sun, Columbus, Ga., have sold out to John King.

Winnifrith Bros., booksellers and stationers Toronto, Ont., have dissolved partnership. H. Winnifrith continues

Robert G. Pike, publisher of the Sentinel and Witness, Middletown, O., has sold out to Ernest King & Son.

Florence Alspaugh & Co., stationers, Jackson ville, Fla., have dissolved partnership. Florence Alspaugh continues.

The copar nership heretofore existing betw Z. C. Warren, C. W. Barnes and John W. Hull, under the firm name of Warren, Barnes & Co., has been dissolved by mutual consent. Acting under the advice of their principal creditors, they decided to dissolve partnership, and a liquidation is to be effected on or before November 1. Mr. Barnes, alone, is to sign in liquida tion, and will, without doubt, continue the business in his own name after the date mentioned

#### Chattel Mortgages.

[In the appended list R. signifies a renewal of a pre-existing mortgage ; b. s., bill of sale ; and real, a mortgage on real estate ]

NEW Y	ORK STATE.
Mortgagor.	Mortgagee, Amount
E. Kearns, Lockport	
G. W. Fitch, Rochester.	
NEW	JERSEY.
Otto Stulzbach, Paterso	n
EASTE	RN STATES.
Oliver A. Libby, Lowell	, Mass
John Reid, Worcester, !	Maas
J. O. Peavy, Littleton, 1	N. H
	and the second of second second

ns of the Stationers' Board of Trade on Thursday afternoon to receive an offer of composition to be submitted by the firm. Geo. L. Pease, of Boorum & Pease; David Scott, of Vernon Bros.

& Co., and John Bentley, of Farmer, Little & Co., were appointed a committee to investigate their affairs.

In the case of the assignment of Slote, Woodman & Co., the assignee, Geo. W. Davids, with large clerical force, has been busily engaged during the past week in making up schedules of liabilities and assets, and it is thought they will be ready to be presented to a meeting of their creditors to be held next week, the day for which meeting has not been definitely named, but it is stated that it will occur about Wednesday.

#### Personal.

Chas. H. Ludwig, printer, New York city, is

J. J Le Count, of the firm of Le Count Bros. wholesale stationers, San Francisco, Cal., is dead.

In the case of Thomas Manahan, U. S. Com missioner Osborn on Tuesday last rendered the following decision: "The accused is charged with having secreted or concealed property belonging to his estate, and attempting to account for any of his property by fictitious losses or expenses, contrary to subdivisions first and eighth of section 5,132 of the Revised Statutes of the United States. Counsel for accused claimed that the principle laid down in the case of the United States vs. Lewis Fox, decided by the U.S. Supreme Court, controlled the facts and the law in this case. The eighth sub-livision of section 5,132 is clearly without the scope of the Fox decision. After carefully considering the proofs and the argument of the respective counsel, I am forced to the conclusion that there is probable cause to believe that the expenditure of \$2,000, alleged to have been made by the accused to his present (second) wife for nursing his first wife for six weeks, and managing his household during that period, before the death of his then wife, was not made at the time, or if made, it was not a genuine transaction made in good faith, but it partakes of the nature of a fictitious loss or expense. The testimony in the case of Margaret E. Manahan justifies me in this conclusion. As to whether the alleged trans actions of the loans made to the accused by his present wife after their marriage are to be considered actual transactions, though fraudulent or otherwise, and therefore cannot be inquired into in a criminal proceeding, it is not necessary now to determine. I did not pass on a simila state of facts in the Philip Stiner case, for the reason that the U. S. District Attorney with drew the charge before 1 was enabled to give my views on the question The accused is held to await the action of the Grand Jury." Later in the day Mr. Manahan was rearrested and gave bail.

## In Town.

P. C. Baird, Lee, Mass.; Mr. Chaffee, Lee, Mass.; L. C. Woodruff, Dansville, N. Y.; J. T. Outterson, Sandy Hill, N. Y.; J. H. Gell, Portland, Oregon; H. S. Crocker, San Francisco, Cal.; M. Colton, La Crosse, Wis.; T. J. Brown, Toledo, Ohio; C. H. Read, Pittsburg, Pa.

### Paper and Stationery at the Exposition.

The Moniteur de la Papeterie Française has the following remarks on the above subject: The classification and installation of articles in the Champ de Mars being now finished, we shall begin a regular review of them We shall first examine the specimens sent by home and foreign manufacturers of papers and paper boards, we shall afterwards pass rapidly in review blankbooks, office and other stationery, binding and art materials, beginning with the foreign sections. Finally we shall speak of paper m and paper stocks, and if we have space shall devote a little to some mechanical appliances and motors of interest to paper-makers. Without associating ourselves with the remarks which have been made on the composition of the jury we must still express our regret that no practical man has been placed in Class 10, especially devoted to blank books, office furniture, &c. The same may be said of Class 60, which includes paper materials and printing. Setting out from the vestibule of the Ecole Militaire we first me the exhibit of:

Holland .- The only paper mill represented is that of Van Gelder Sons, of Amster dam, whose mills are situated at Apeldoorn and at Wormerneer, near Sandaam. These mills have kept up the old traditions of Dutch paper-making Hand-made papers tub sized, for bank checks, .118 &c., are more remarkable for their strength and good sizing than the fineness of the watermark. Messrs. Van Gelder also exhibit magnificent vellum papers for printing and en graving. To make these large size hand-made papers requires experienced workmen, who are becoming scarcer every day. Their exhibit is completed by specimens of imitations of Japanese and Chinese papers which are in great favor among publishers. The representation of this house, however, gives a very incomplete ides of the state of the manufacture in Holland, and it is regrettable that the mills of Maestricht have not sent specimens of their machine-made papers, which are very much like the Belgian. Hooites & Benhema, of Hoogezand, show specimens of straw and other boards. M. B. Cramer, of Ootmarssum, exhibits large boards which are calendered for finishing shawls and stuffs.

mills of Maglemoelle, near Naestved, which sends very good specimens of white and colored papers.

Greece-Though hardly a manufacturing country, sends a few reams of common writing and packing paper.

Belgium-Has a few exhibitors who have dis played great taste in the arrangement of their wares. Foremost among them is the house of E. L. Godin & Fils, whose mills are situate at Huy and Andennes. The mills have been long established, and have in a high degree the characteristics of Belgian paper mills-large output, thorough system and good quality of pulps. The exhibits consist of vellums and water-marked papers (machine made), writing and machine ruled, colored for book covers and all sizes of printing papers, and also blotting and tarred papers. Olin & Fils, of Brussels, show news paper in rolls and reels, and plain and colored wall papers, and also tapes for telegraphic indicators. The Anonymous Society of the Union of Paper-Makers of Mont Saint Guibert displays, besides printing papers of all kinds, and writing papers which are remarkable for their good manufacture and cheapness, white and colored parchment papers known as "impermea-ble vegetable parchment." These vitreous papers are very useful for various purposes, and can in many cases, as in binding, be substituted for real parchment. They can also be employed for osmosis apparatus.

[To be Continued.]

#### Cellulose.

The Wochenblatt für Paplerfabrikation says: we are to believe the estimates of future and possible uses of callulose not less than 300,000 centners will be annually used. At present, however, the entire production is not more than 100,000 centners, which are by no means of easy sale. This fact is owing to various causes. A great many paper mills do not care about using cellulose. A great many others are arranged for straw pulp and though this is dearer than wood cellulose they do not care to transform their machinery. The cellulose is not pure and bleached enough for medium and aperior papers, and is too dear for those of inferior qualities. The prices of paper are at present so low that it is not profitable to buy cellulose. At the same time there are other uses for cellulose besides making paper. It can be used as wood imitation ornaments, as a substitute for leather cloth, and for fillings for shoes, &c. Furniture decorations, picture frames, &c can be pressed, and the price is only 1-10 to 1-20 that of wood work.

#### Newspaper Intelligence.

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

### NEW NEWSPAPERS.

DAILY.	Size.
Oakland (Cal.) Citizen	34×36
Hornellsville (N. Y.) Hornell Times	19×26
Philadelphia (Pa.) Tageblatt	27 × 40
WEEKLY	
WEEKLY, Fort Collins (Col.) Courier	24 × 35
Norwich (Conn.) Banner.	24 × 36
Harmony Grove (Ga.) Northeastern Progress	24 × 36
Chicago (Ill.) News	20×30
Compton (III.) Record.	30 × 44
Golconda (III.) Pope Co. Democrat	24×34
Lee (III.) Monitor.	30 × 44
Paris (III.) Republican	28×44
Paw Paw (Ill.) Lee Co. Times	30×44
Pontiac (III.) Ford's Livingston Co. Democrat.	26×41
Monrovia (Ind.) Register.	20 × 11
Oxford (Iowa) Journal.	20×96
Eagle Lake (Minn.) Independent	20 × 26
Gainesville (Mo.) Ozark Co. News.	20×27
Kansas City (Mo.) Herold des Westens	28 × 42
Keytesville (Mo.) Chariton Courier	26 × 40
St. Louis (Mo.) Grocers' Trade Circular	9×12
Pawnee City (Neb.) Enterprise	9×15 24×36
Exeter (N. H.) Greenback Lever	24 × 36
Bloomville (Ohio) Seneca Co. Record	24 × 35
Defiance (Ohio) Greenback Era	26 × 40
Fremont (Ohio) National Mail.	26 × 40
Mount Vernon (Ohio) National Advocate	26 × 40
	26 × 40
Bradford (Pa.) Era	24 × 36
Elk City (Pa.) National New Era	
Pittston (Pa.) Sunday Plain Dealer	26 × 38
Wilkesbarre (Pa.) Sunday Heald	20 × 30
	22 × 32
Williamsport (Pa.) Star of Hope	26 × 40
Dallas (Tex.) National Greenback Standard	20 × 40 26 × 40
Fort Worth (Tex.) Tarrant Co. Tribune Petersburg (W. Va.) Grant Co. Gazette	20 × 40 23 × 35
	20 × 00
SEMI-MONTHLY.	
Waco (Tex.) Central City Advertiser	22 × 32
MONTHLY.	
Cleveland (Ohio) Home Companion	22 × 30
West Balam (Ohio) Erwin's Musical Cosmos	11 × 13
QUARTERLY.	
Cleveland (Ohio) American Antiquarian	17. 10
Cleveland (Onio) American Antiquarian	1 × 10

sample of their product. It is styled "title deed " paper, but of course is different from the kind of paper used in this country for that purpose. The sample before us is a nice sample of book paper, of good color and finish and very well closed. It is certainly creditable to the manufacturers.

RUSSIA is now preparing to follow a system of protection similar to that which in this country has so powerfully-if not too powerfully-stimulated our manufactures. The paper trade is already beginning to look up there. One firm in Moscow employs more than eighty workmen in the manufacture of boxes for apothecaries, and is now to add the manufacture of paper bags.

THE Paris correspondent of this paper can be reached by our friends and readers abroad by addressing THE PAPER TRADE

original article, and whose use ought to be of the most multifarious; iodinized paper, which is sold by the apothecaries at apothe-

.1,000 Louis Bros., Cincinnati, O.....

#### Failures.

Albert R. Tupper, stationer, Boston, Mass., is in bankruptcy.

Levi Adam, dealer in books and stationery, Louisville, Ky., has failed.

McFarland & Bro., wholesale paper dealers, Philadelphia, Pa., have compromised at 60 per

W. L. Dillono & Co., manufacturers of paper bags, at No. 95 Barclay street, New York, have failed, with liabilities amounting to \$3,000, and assets, \$200.

Roman & Co., stationers, San Francisco, Cal. are reported to have suspended. The failure is said to have been caused by the suspension of the house of Slote, Woodman & Co.

The Dillingham Paper Company, 31 Federal street, Boston, has failed. According to the statement to its creditors the liabilities are \$7,950.88, and the assets \$1,475.25. The offer is made of 15 cents on the dollar, and a settlement will probably be effected on this basis.

A meeting of the creditors of Alvord & Kel-

Portugal.-Paper manufacturing is here mostly confined to the neighborhood of the town of Aveiro. Seven of the principal manufacturers have sent specimens of their production to the Exposition. Mostly all are hand-made and common, the consumption of them is limited to local vants and to export to the Portuguese colonies Portuguese publishers have to import paper principally from England.

Denmark-Has only one exhibitor-the paper

CHANGES The Evening Democrat, Oakland, Cal., has merged

nto the Citizen. The Santa Ana Valley News, Santa Ana, Cal., has rged into the Herald

The Pilot, Chicago, Ill., has changed to the Irish ader and Pilot.

The Ledger, Olney, Ill., has changed to the Rich-and Co. Republican.

dependent Journal, Holyoke, Mass., has erged into the News.

The Western Citizen, Brookfield, Mo., has merged ato the Western Monitor. The People's Independent, Turtle Creek, Pa., has

moved to Greensburg.

#### CONSOLIDATION.

The Morning Times and Weekly Times, Lockport, I. Y., have been consolidated with the Union.

SUSPENSIONS NOT PREVIOUSLY ANNOUNCED. The Daily Argus, San Jose, Cal.; Dining Room fagazine, New York, N. Y.; Commercial, Oneonta. I. Y.; Daily Register, Norristown, Pa.; Sunday ming News, Wilkesbarre, Pa.; Free Press, Wood bridge, Ont.

Peter H. Morris, whose name has been con nected with rumors about the establishment of a new paper house in this city, denies that he has ever had any such intention, and that the rumors are entirely without foundation as far as he is concerned.

### THE PAPER TRADE JOURNAL.

#### General Notes.

The owners of the Voelter patents for making wood pulp have obtained an injunction for infringement against Steinberger & Co., Wauwega, Wisconsin.

The number of exhibitors at the Berlin Paper Exposition is now upwards of 500. The approaching elections in Germany interfere some what with previous arrangements, and it is proposed to have the meetings of the trade from August 5 to August 11.

Briggs & Taylor, 60 Duane street, New York. are large importers of foreign paper stocks of good packings, and are also agents for Dundee paper stock, as selected and packed by John Bradford, of Dundee, Scotland. The trade should call upon this house.

According to the Bulletin de l'Imprimerie the duty on the manufacture of French paper in the budget scheme for 1879 has been retained, the Government being made to dispense with this item of revenue, amounting, for 1877, to 10,500, This duty raises the cost of books 000 francs. &c., an average from one to two per cent. The chief items of dissatisfaction are the ten per cent. duty on white paper, and five per cent. on "lulles," and inferior qualities In the four-teenth congress of paper manufacturers this sub-ject was specially considered, when a committee was appointed to wait on the Government to urge an amelioration.

Edmondo di Amici, an Italian, in a book on Constantinople, says that during the fast of the Ramazan it is amusing to stand upon the bridge of the Sultana Valide a few minutes before th sun goes down. About a thousand boatmen may be seen coming and going or sitting still in their caiques. They have fasted since dawn, and are wild with hunger. Their little suppers lie before them, and their eyes constantly move from the food to the sun, and from the sun to the food. When the sun becomes half hidden, they take the food in their hands, and all, with one accord, fix their eyes on the luminary. At last the flery point vanishes, the cannon thunders, and a thousand mouths bite enormous morsels from a thousand pieces of bread.

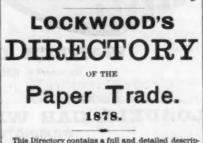
In an interesting article on "Book-making in Germany" in the Times of the 20th ult. some interesting statistics are given of the German publishing trade:-According to the Leipsic Catalogue, 14,000 independent works, containing over 20,000 volumes, were published in Germany in 1877. Leaving anonymous publications out of account-a species of literature abounding in Germany-these books were written by 10,000 A classification according to subjects authors. gives the following results:-Encyclopedias, bibliography, and science of literature, 372; theo logy, 1,253; law, politics, and statistics, 1,329; medicine, 755; natural science, chemistry, and pharmacy, 740; philosophy, 163; school books and pedagogy, 1,629; books for the young 485; classics, Oriental languages, and antiquisies, 520; modern languages, 445; history, 739; geography, 311; mathematics and astronomy, 166; military works, 347; commerce and industry, 525; architecture, engineering, mining, and navigation, 378; shooting, hunting, fishing, and the management of forests, 103; agriculture and horticult-392; belles-lettres, 1,126; popular works, ure, 540; masonic books, 17; miscellaneous, 507; maps, 336; total, 13,925. Deducting from this table school books and linguistics—the latter serving in many cases as school books for riper years—there remain 12,000 books on various sub-The practice of the German publishing trade fixing the average edition at 2,000 copies we obtain 2,400,000 copies as the figure at which we may set down last year's production. This estimate is rather above than below the reality.

In an article in the Oest. Buchdrucher Zeitung on the Austrian Catalogue at the Paris Exhibition, we see the following figures on the state of the printing and other trades at the present time compared with a few years previous. The head-quarters of the printing trade in the dual empire are in Kermo and Prague. Since 1860, printing, especially in the first-named city, has extraordinarily developed in respect of the number, extent, and capabilities of the firms, and quality of work. While in 1865 there existed in Vienna 53, and in Prague 17 taxed printing offices, in 1876 their numbers had increased to 112 and 31 respectively. In the countries joined to the monarchy great advance has likewise taken place. The newspaper press has especially con-tributed to the increase of business. In 1875 place. periodicals and newspapers appeared to the number of 876, of which 293 dealt with politics. The greater part of these appeared in Lower Austria, including Vienna, i. e., 359, Oben Bohemia, 195. 591 were printed in the German language. The paper trade has participated in the advance of the preceding industry. The ches about 700.000 net al production re cwt., and in its production are employed: rags (of which an export duty of 4 fl. per met. cwt. is imposed), and various substitutes, as Voelter wood stuff for middling fine to ordinary paper, chemically prepared wood stuff, or cellulose, and straw stuffs. Imports-1872, 52,499 cwts.; 1877, 51,451. Exports-1872, 91,777; 1877, 190,933. Chromo lithography, oleography, and the manufacture of maps and plans, &c., have made noteworthy progress. In materials for printing, machines, &c., there are nine principal firms, ostly in Vienna, ongaged. The lithographic and engraving (copper, steel, and wood) indus-tries deserve notice. The lithographic firms in Vienna, which numbered 67 in 1865, have increased to 140 in 1876. There are many small offices in different parts of the empire working a single hand press. The headquarters of the engraving trade is in Vienna, which works largely for exportation, seven principal firms being thus engaged. ----



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# OFFICE OF THE PAPER TRADE JOURNAL, FRIDAY EVENING, July 20, 1878.

THE MONEY MARKET .- There is no change in the monetary situation. Loanable capital was in abundant supply throughout the week, call borrowers obtaining all they needed at 11/2 to 21/2 per cent. on ordinary stock collaterals, and 1 to 1% per cent. on pledge of Government securities. In the discount market the rates are almost entirely nominal. Prime mercantile paper was in demand at 3 to 4 per cent., but there is little doing, as the offerings of first-class paper are light.

Government bonds were strong and active, with an improvement of 1/2 per cent. in nearly all the The foreign advices reported a strong market at London for United States bonds which advanced 1/2 to 1/2 per cent. Sales of the new 4 per cents. by the Treasury have recently been very large, the total amount disposed of thus far amounting to over \$26,000,000. The Secretary issued a call on Wednesday for another \$5,000,000 of the 5-20's, interest to cease October 17, leaving the amount of that issue outstanding \$66,856,050.

The gold premium since our last has remained very steady. This steadiness of the price comes mainly from the demand with which to pay for 4 per cent. bonds purchased from the Treasury. The range of qu otations for the week has been between 100% and 100%. The following are the quotations for the week:



unchanged at \$4.83 for 60-day and \$4.86 for sight, and the market is dull. The follow: ing are the rates to-day: Sterling, 60 days \$4.88; sterling, sight, \$4.86; cable transfers \$4.851/2 to \$4.87; commercial sterling, prime long, \$4.81 to \$4.82; commercial sterling, good long, \$4.79 to \$4.81; Paris, bankers', 60 days \$5.20 to \$5.1715; do. sight, 5.16% to 5.15%; Antwerp, bankers', 60 days, 5.21% to 5.18%; do sight, 5.17% to 5.16%; Swiss, bankers', 60 days, 5.20 to 5.17%; do. sight, 5.16% to 5.15%; Reich marks (4), bankers', 60 days, 94% to 95; do. sight, 95% to 95%; Guilders', bankers, 60 days, #0 to 40%; do., sight, 40% to 40%. Paris dis-patches quote exchange on London at 25 fr. 13%c.

THE PAPER TRADE-Continues to pres a very dull appearance. There is scarcely any trade at all beyond an ordinary jobbing description, and while the local demand is very limited the export movement is slower than for several weeks previous. The present dull state of business is not unusual for the season of the year, and at the proper period an improvement is looked for. At the present time a large number of business men are absent from the city seek-ing recreation, and those . who remain put forth very little effort to push sales. The change from the intense heat of last week to an enjoyable temperature has given a slight impetus to some branches of trade, though it is too early yet to expect much improved activity. About the middle or last of next month, according to former precedents, a revival may be expected, though the fall season will hardly get under full headway until September. There is now certainly a bright business prospect, unless all indications are illusive. In Writing Papers the general market is without change; the demand continues slow and irregular, and the movement is mainly of a jobbing character, with quotations nominally unchanged. Book Papers are inact ive, and there is only a limited business doing on local account for lots for immediate use, the quality most in request being Extra Machine Finished. Prices are very weak, but quotably as before. The market for News Papers shows very little strength, and the recent reduction in the price of wood pulp has had its effect on the price of News Papers, and we hear of sales of ordinary qualities at 6% c., with a tendency to a still further shading in the price. In Manillas the market is very dull and weak, and shows no signs of improvement. The supplies are very

is some little call for Flour Sacks, but for Bogus Manillas the call is very light, with the market overstocked. Straw Wrappings have undergone little or no change. The market is very dull and weak, and prices have a still further downward tendency. The production keeps up pretty full, only a fractional number of the mills having shut down. The manufacturers last week failed to take any action, and the movement looking to a general closing down to half time, as was proposed, after August 1, has been abandoned. In Binders' Boards there is only little doing, and prices rule very low, and continue w change at our former quotations. Straw Boards are still quoted on the basis of \$43 to \$45 per ton for State and Pennsylvania Air-dried. The local demand is light, but there is some little export business in progress. JUTE BUTTS .- Market past week has ruled

quiet but steady at former prices, viz., 2 11-16c. to 2 13-16c., cash and time. Arrivals have been as follows: Allahabad, New York, 4,500 bales; Gavelock, do., 4,688 bales; Idomene, do., 3,039 bales; Star of Albion, do., 4,642 bales; total, bales, of which a large portion 16,809 were bought by manufacturers to arrive. The market closes quiet and steady at former quotations It remains to be seen if the late heavy arrivals will induce holders to make any concessions.

WOOD PULP .- The demand is rather less, owing to a number of the mills having closed down for repairs, yet the sales of the combina-tion have been free at their reduced price of 3c., and sales are reported of about 75 tons of combination Pulp at this quotation, while offerings of stock made outside of the combination have been reported as low as 21/2c., and several sales at 2%c.

FOREIGN RAGS AND PAPER STOCK .-Transactions are very limited, and the market is generally dull, and values are without any material change. The arrivals for the week foot up 1,503 hales Rags; 554 bales Paper Stock, and 29 bales Manillas.

DOMESTIC RAGS .- The market contin very quiet, with only a light call for stock, and prices remain on the line of our former quotations. There is some inquiry for City Seconds. The sales reported include 10 tons No. 2 City Whites at 31/4 c., and 125 bales City Seconds at 1%c. to 1%c.

BAGGINGS, &c.-The business doing mostly in small lots. The market continues dull and weak. The sales reported to us embrace 8 tons Manilla Rope at 3c., 12 tons No. 1 Gunny Bagging at 2 9-16c., and 6 tons Jute Bands at 2%c

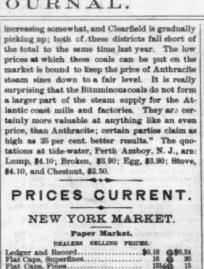
OLD PAPERS .- There is nothing of partic ular note to say of this market, except that the low prices of Rags have a corresponding effect in the price of Paper Stock. The transactions the past week were small, and prices are nomi-nally unchanged. We note sales of 7 tons Book Stock at 2%c.

STRAW. - Generally prices remain pretty much as last week. We quote : 40c. to 45c. for Long Rye; 40c. to 45c. for Short Rye, and 30c. to 35c. for Oat.

ROSINS .- There is a better demand for good grades, prices for which hold steady; Strained is quiet and rather easy. The quotations are: C Strained at \$1.55; D Gcod Strained at \$1.60; E at \$1.70; F Good No. 2 at \$1.80; G Low No. 1 at \$1.90; H No. 1 at \$2.20; I Good No. 1 at \$2.45; K Low Pale at \$2.60; M Pale at \$3; N Extra Pale at \$3.25.

CHEMICALS .- The market for Bleaching Powders and Soda Ash is very firm, and prices are higher, owing to their scarcity. Sales occurred as follows: 75 cks. Bleaching Powders. at 1.50c. currency : 50 tons Soda Ash, 48 per cent. at 1.75c. gold; 25 drums Caustic Soda, 60 per cent., at 4c. gold; 25 tons Sal Soda, at 1.20c. gold; 50 barrels Lump Alum at 2%c. currency; 75 barrels Ground Alum at 2%c. cur-rency; 100 barrels Potash Alum at 2%c. currency; 50 bbls. Concentrated Alum at 2%c. currency; 100 barrels Natrona Porous Alum at 2%c. and 2%c. currency; 25 tons Aluminous Cake at 2c. currency; 10 casks Yellow Prussiate at 23c. currency ; and 50 rasks Bichromate at 13c. to 14c. currency; 10 tons English China Clay at \$16 per ton, and 15 tons South Carolina do. at \$12 per ton

COAL .- During the week under review we have to report a quiet trade doing in Anthracite coal. Saward's Coal Trade Journal says: "There is considerable moving forward from tide water points, to go on stock, which proves at least a portion of the dealers are going to be in a position to reap a pretty good harvest this fall and winter, if there is any reliance to be placed in the signs of the times. They report, however, that buyers still hold off, from one cause or another, and thus there is little activity in the business. After August is now said to be the time when we may expect that grand rush for coal, and not enough to supply the demand. The regular monthly meeting of the Board of Control was held in Philadelphia on the 23d inst., and upon a careful consideration of the condition of the market and the outlook for the future it was decided to make the allotment for August 2,000,000 tons, as against 1,500,000 tons for July, and a business of 1,391,366 tons in August last and an average business of 1,868,110 for the month of August for five years from 1873-7. One of the very peculiar conditions of the Anthracite trade is found in the fact that while the dealers in certain grades find difficulty in selling their coal, except at shaving rates, the Lehigh coals, all of them, go off at good stiff rates, for all sizes excepting nut; some of the figures claimed to be realized are very flattering indeed. At the Eastward there is a very quiet market prevailing-no large sales, and receipts very much less than had been anticipated. The The freights in this direction are, as a matter of course, very low just at present, but they are bound to advance when the active trade sets in. The Bituminous trade continues to move along full, with only a very moderate demand. There in regular order. The output of Cumberland is



News, rag and wo News, straw..... News. Common...

Hanging, Hanging, Hanging, Hanging, Colored F

36 × 40 30 × 40

Delaines, strip Black Shoe La Biankets..... Wool Carpets. Mized Carpets White Linseys Mized Linseys

Superfi Machin White White Curtain Buff Brown Papers, 1

Oream Shavings. Paper-collar Cuttings. Ledgers, Briefs and Letters Newspapers and Pamphleta. UId Newspapers Broken News and Letters. New Books, Solid Folios. Old Blank Books. 334 334 234 Brown Papers. White and Buff Railway She Railway Tickets Hamburg Bags, &c. Linen Cuttings. SPFF, quare bale. SPFF, long bale. SPFF, square bale. FF, square bale. LFX, square bale. LFX, square bale. LFB, long bale. LFB, long bale. Gunny Bagging, No. 1. Burlap Bagging, No. 1. 7 60 57400 57400 57400 57400 734 22 Sec. Shirt Cuttings, square 5%000000 244348 P F F F, square bale. P F F F, square bale. P F F F, long bale. P F F, long bale. P F F, long bale. P F, square bale. 20 15 121 13 15 15 15 10 14 12 11 11 12 11 12 11 12 11 12 12 11 12 14 15 12 15 21 11 11 F R. square C F X, square tra Fine B 34 C F B, Cottor 23% ..... Hanging, Superfine, No. 1 Hanging, Superfine, No. 8 Hanging, Superfine, No. 8 14 11 Old Papers. Old Book Paper... Old Printed Books 734 334 5)60 4960 4960 Blank, No. 2. Blank, No. 8. Imperfectio White Shav Colored Pay Writing Pa 634 5 434 5 876 196 Colored Papers, Double Media Colored Papers, Glazed Media Colored Papers, Tolacco .... Colored Papers, Tolacco .... White Tissue, 34 × 30, W ream. White Tissue, 34 × 36, W ream. Manillas, Flour-sack, cream. Manillas, Flour-sack, drab... Manillas, Rope, unbleached Manillas, No 9 12 8 1.25 1.10 1.70 Glazed m. Tobacco. Tobacco. Leghorn and Genoa Rag 9 1.50 袋 123/6 11 11 9 716 83/2 North Flour-sacz, our-sacz, our-976 18 GG size, 11 × 15. other sizes i Hardware, light colored . Hardware, No 1, glazed . Hardware, No. 2, glazed. 22 Alexandria Rags 836 Hardwarc, No. 2, glasod. 57, Binder's Boards, & ton. 50,00 Straw Boards, air-dried, Album, ¥ ton 55,00 Straw Boards, siz-dried, Album, ¥ ton 55,00 Straw Boards, siz-dried, No. 1, ¥ ton. 81,00 Straw Boards, siz-dried, No. 2, ¥ ton 42,00 Straw Boards, siz-dried, No. 2, ¥ ton 42,00 Straw Boards, air-dried, Pann, ¥ ton 45,00 Straw Woards, air-dried, State, ¥ ton 45,00 Straw Wrapping, basis, 15×20, 10 B, Bi glacetz-Blues. Colors @100.00 @65.00 @55.00 @55.00 @45.00 Memel Rags. 414 Q 45.00 FG... LFB. Trieste Rags SPF SFF SFF SFB 705日4日 Konigsberg Rags SPFF. LFB. 22 Japanese Rags Whites Blues 9 Straw Wrapping. W D. Tea Papers, 16-sheet qui 12×18 14×20 Chemicals, Coloring Materials, &c 30 0 ...our Woolen Rage Aluminous Cake, Pochin's Patent, cur. Aluminous Cake, Pochin's Patent, cur. Anti-Chlorine Bi-Chromate Potash, Scotch, currency Bi-Chromate Potash, American, cur'y Bi-chromate Potash, American, cur'y Bi-chromate Potash, American, cur'y 12 Bitte Grey Stockings Blue Flannels Reds, old. Reds, old. Reds, new Shirt Clippings. Mixed Softs, free of Carpets Seamed Cloth. Light Skirted Cloth. New Dark Clips. New Blue Clips. New Blue Clips. New Flanck Clips. New Flanck Clips. New Flancy Linasy Cuttings. New Fancy Linasy Cuttings. New Fatinets. Seams and Satinets. Delaines, stripped for extract. Blankets. 18 14 26 834 734 434 534 14 16 18 ing Powders, currency ..... Soda, 60 per cent. gold ...... hina, English, per ton, gold ..... hina, English, to arrivo, per Caustic Soda Clay, China, Clay, China, gold. South Carolina, per ton Terra Alba English per Terra Alba, American, J eras, American. Clay, South Clay, Terra Clay, Terra 18,00 80,00 18,00 18 15 17 Copperas, American. Extract Logwood, currency. Prussian Blue, dry. Prussiate Potash, American, Orange Mineral, gold...... 100000 4 70 Prussian Blue, dry. Prussiate Potash, American, curren Orange Mineral, gold. Rosins, coumon strained, per bbl. Rosins, good, so a, per bbl. Rosins, good, so a, per bbl. Rosins, good, No. 1, per bbl. Rosins, gold, service and the service of the service 236 ed, per bbl... XXX XXX XXX 2% 8 1% 5 1% 4%000 2 tic. gold ..... Rags, Rope and Bagging. Rage, Rope and I White Shirt Cuttings, No. 1.... White Shirt Cuttings, No. 2... Mill Assorted Whites Unbleached Muslims City Whites New Conton Flannels... New Cotton Strips, light... New Cotton Strips, derk 1.75 8 2360 60 1360 51646 134 City winises New Cotton Strips, light. New Cotton Strips, light. New Cotton Strips, dark. No. 2, Whites Cotton Canvas. Linen Canvas. Country White Rags. Country White Rags. Country White Rags. Country Mixed Seconds (City). Colors, per 100 b Manilla Rope. 8340 1340 1340 20 40-156 Sulphuric Aciu, d Ultramarine, gold..... Venesian Red, American Venetian Red, English Venetian Red, English 1324441172 22351542141 416 45 5 17/8 Vitriol, blue, curren Vellow Ochre, gold. 1.00 BOSTON MARKET 35676 174 3676 174 3676 General trade continues rather quiet. Prices of goods are firm for most descriptions. Paper Stock. Mill Assorted Whites Cotton Canvas Cotton Canvas, No. 2 5 3% Sharings and Old 2000 11 9 

237

394

NA NA

554 2%

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English Old Papers and Shavings

Hard Shavings, No. 1 Soft Shavings, No. 1 White and Colored Shavings, No. 1. White and Colored Shavings, No. 2. Cream Shavings.

Spend your time in nothing which you know must be repented of. Spend it in nothing which you could not review with a quiet consc ce on your dying bed. Spend it in nothing which you might not safely and properly be found doing if death should surprise you in the act.

8	Shavings and Old Paper.		Gunny Bagging
	White Collar Cuttings, all paper 43/4	a 5	Gunny Bagging, No. 2.
1	White Collar Cuttings, muslin lined . 314		Kentucky Bagging
5	White Envelope Cuttings 434		Hard Woolens, old
	Hard White Shavings, No. 1 449	416	Sof: Woolens, old
2	Onfe White Chambers No. 1	(P 17)	Hard Woolens, new
	Soft White Shavings, No. 1		Cafe Woolens, new
	White Shavings, No. 2 3	B 814	Soft Woolens, new
2	Mixed Shavings, part white 2140	a 216	Jute Butts
	Ledger and Writing 336	a 314	White Collar Cuttings
	Solid Stock	a 344	White Envelope Cuttings
	Book Stock	a 212	Hard White Shavings, No. 1
	Rook Stock No 1 light 187.		SOLUWILLE SNAVINGS, NO. 1 .
۰,	Prints 114	A 314	White Shavings, No. 2
b.	Pure Manillas 214	a 912	Mixed Shavings (% white)
	Bogus Manillas and Hardwares 1	à île	Imperfections
8	Commons	A 85	Light Prints.
	Binder's Board Cuttings		Manilla Envelope Cuttings, new
E.	Straw Board Cuttings	@ 114	Manilla Danama ald
.	Straw Board Cuttings 80		Manilla Papers, old
	English Rags, &c.		Hardware and Manillas
2			Straw Board Cuttings
	New Cuttings, cotton 516		Linen Canvas
	Essex Fines 5	8 516	White SLirt Cuttings
•	London Fines, cotton 434	a a	Country White Rags
. 1	Outshots, cotton 4	a 416	Country Mixed Rags
1	Seconds 258	272	City Whites, No. 2.
	Seconds Extra	A 3	Seconds, Country
	Thirds. 91	2 216	Colors
1	New Print Taba Store	a 4	Manilla Rope
	Checks and Blues	814	Manilla Rope. Binders' or Tar Board Cuttings
	Light Prints 2341	8 8	Common Papers
1	Light Fustiana	27/8	Oakum Junk
	Dark Fustians	a	Henn Bone
	Black Calicoes	0	Hemp Rope
k	First Canvas Linen	5	Leghorn Rags.
	First Canvas Linen	2	P P, No. 1 Linens
	Second Canvas Linen	š	S.S. No. 2 Linens
1	Black Bagging	B 6	TT No. 9 Linens
	Gunny Bagging, No. 1 216	3	T T, No. 3 Linens P, No. 1 Cottons
	Gunny Bagging, No. 2	5 2	C. NO. I CORONS
i I	Mixed Bagging 1%	à	8 No. 2 Cottons
	Burlaps Bagging, No. 1	40	T, No. 8 Cottons
	Kope, Manilla	à	Alexandria Rage
	Rope, Mar lla tarred	à	
	Jute Ropes.	à	Whites
C)	Jute Threads 8		Blues
			Colore

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1	*	*	*	*	*			*	*		3 @ 2%	

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238	THE PA	PER TRADE	IOURNAL.
Smyrna Rags.       Whites     2440     254       Brass     2540     25       Bitzed     2540     25       Mixed     8     25       Whites     2540     25       Blues     2540     25       Blues     2540     25       Blues     2540     25       Blues     2540     25       Mixed     1     25       Superfine Book     11     4       Fine Book     9540     9540       Stage Stage     9540     11       Brage News, No. 1     9540     11	Soda Ash, refined, for 48 % cent.gold   2   3     Spanish Brown.   1346   134     Sugar of Lead, white.   30   6   21     Sugar of Lead, white.   30   6   21     Sugar of Lead, white.   30   6   21     Ultramarine Blue, gold   2   6   80     Venetian Red, American   1346   -     Blue Vitriol   7346   734     Yellow Ochre, American   3466   1     Yellow Ochre, French, gold   2   6     OUNCLEVENE ATT   MADUETET   3466	MACHINERY, &c., FOR SALE. The undersigned, whose lease from the Commissioners of Fairmount Park on the property now	The Best Motallie Belt Hook in the Market for LEATHER OR RUBBER BELTS These Hooks have been thoroughly tried for Bachine Shopa Cotton, Woolen and Paper Mills and all who
Ordinary Hag News.     8     6     9       Straw News.     7     6     74       Manilla, Cream, No. 1     12     6     13       Ordinary Wrapping Manilla.     8     6     84       Manilla, No. 2     64     6     54       Bogus     54     6     6       Straw Wrapping     24     3     6       Hardware, No. 1     8     6     7	Paper Stock. Cents. Cents. Cents. Cents. Soft Woolens, mixed City	Four Paper Making Engines, Rag Boller, Rag and Paper Cutter, Shafting and all Machinery required therefor.	Successor to GREENLEAF WILSON
Hardware, glazed. 8466	Country Whites, No.1. 4 White Coular Cuttings 356   Country Whites, No.3. 394 White Envelope Cut- tings	JARVIS' PATENT FURNACE For the Setting of Steam Boilers, Will save twenty-five per cent. in fuel. or make an increase of twenty-five per cent. in Steam Power Will burn screenings with small mixture of soft coal.	The Cidect and Most Extensive Manufacturers of Chilled Car Wheels in this or any other Country.
Alum, English lump, B D   2446   294     Alum, American ground   2946   294     Alum, American lump   2346   294     Alum, Potash.   2966   294     Alum, Chorine   3   34     Bi-Chromate Potash. American. cur'y   11966   115     Bileaching Powders, gold   11396   115     Biackley Blue, gold   4.50   5.00     Caustic Boda, 70 & cent., gold (for 99   2.906   4	Hemp Ropé 4 Gunny Bagging 34 Hard Woolens, old. 4 Hard Woolens, old. 4 Hard Woolens, ew. 154 Note Woolens, (Mill). 94 City Gunnies, No. 2. 2 CHICAGO MARKET. Rags and Paper Stock. Centa	tan, saw dust, green wood, and WET GREEN PEAT, without using blower. A.F.UPTON, GENERAL AGENT. No. 48 CONGRESS STREET, BOSTON, MASS.	product herein described respectfully recom- mends the same to the United States Centennial Commission for award, for the following rea- sons, viz.:
W Cent.).     3960 394       Clay, English, W ton, cury     17.00 G 18.00       Cay, American, W ton.     14.00 G 18.00       Coppera, American, W D.     16 44       Extract Logwood     10 G 194       Lime, common, W bbl     130 G 140       Prussiant Blue, W D     62 G 65       Prussiant Potash, American.     22 G 45       Bosin, common strained, W Ib.     1560 136	Whites, N. 14     4     6     15       Prints	CONLEY'S Mill and Machinery Agency. For the purchase, sale, or ex-	This exhibit contains a stack of calender- ing rolls intended to be part of a complete paper machine. These rolls are of cast-iron, chilled at the surface in casting, and thereby made-hard, like tempered steel. They are separately ground according to a highly im-
Rosin, No. 1.     234 (0)     356       Rosin, pale     3     6     35/       Rosin, extra pale     38/     2     4       Bal Soda, N. C., P. D., gold     1.30 (0)     14/       Fail Soda, currency     14     1.36 (0)     1.46       Soda Aab, gold     1.85 (3)     1.85     1.85       Bagar Lead, White     19     19/     19/4	FOREIGN MARKETS. London Market Report. London. July 13, 1878. Business was unaltered during the week. From America a few orders were received in our market, and paper-makers here also bought more freely;	CHANGE of PAPER, COTTON, WOOL- EN, GRIST and OTHER MILLS ALSO, MACHINERY, MILL SITES and PRIVILEGES. Estimates given for New Machinery at very	proved plan, and are so true that, when placed together, they bear upon each other through out their entire length. This exhibit has the exceptional merit that the rolls are not only GROUND true but CAST by
Buphuric Acid, 60 degrees.   134 3   2     Terra Alba, # ton   15.00 425.00     Uitramarine, W B, gold   25 30     Venetian Red, P B   1.55 4     Vitrioi Blue   744 74     Tellow Ochre   154 15     PHILADELPHIA MARKET.     Paper.—The market is generally worse so far as a change can be noted. There are very few inquiries	prices in general rule low, and induce consumers to buy ahead. RAGS.—The demand was fair for strong linens, especially for the middle and lower grades; in fact for the latter some orders had to be refused. Cotton rans of middle and lower descriptions moved also pretty freely, while fine-classed rans were more or less neglected.	much lower prices than can be obtained else- where. Parties having any kind of Machinery or Mill Property which they desire to sell, will please send a list and description of the same to the under- signed, who offers for sale a large line of Paper- signed, who offers for sale a large line of Paper-	ALSO MANUFACTURERS OF CHILLED ROLLS
for paper; almost none at all this week, and collec- tions are very alow. Paper Stock.—Every thing is down a little. Manu- facturers get se poor a price for their paper that they cannot afford to really pay any price for the stock. Chemicals.—A firm feeling; same as last week.	GUNNYContinues to be in good demand, and long prices are paid here to dealers. WASTE PAPERSIn these very little was done, holders still declining to further reduce their prices. Several orders are in the market, but cannot be filled on account of too low limits.	Making Machinery and Mills, including the following: One 63-in, one 43-in. Fourdrinier Machine. One 63-in, one 43-in, one 43-in, and one 63-in. Cylinder Machines. One 63-in. Wet Machine, complete from stuff chest to press. One 60-inch Fourdrinier part to carry a 40 ft. wire; good make, and nearly new. Six Iron Dryers, 48 in, diameter, 60-in. face, with frames, &c.	
Bichrome of Futash went up un July 23 3c. per b.     No English China Clay here in first hands, and there will not be any for twenty days.     Paper Market.     Tileston Plate.   6 30     Plate.   15 6 16     Ko. I Book, white and tinted.   13 6 14     Rine Book, white and tinted.   11 6 114     No. 3 Boor.   9 6 10%     Colored Glazed Mediums.   12 6 15	Advertisements. W ANTED - SITUATION AS SIZE-MAKER Finisher: ten years practice at both in England and America. Address J. B., care of Paper Trade Journal, 76 Duane street, N. Y. WANTED - A. SITUATION AS MACHINE tender; cylinder prefarmed; can furnish very best of reference. Address J.S., office Paper Trade	Four Copper Dryers, 28:45. One hundred and twenty-seven Skeleton Dryers, 36 in. by 80 in., with pulleys, gears, &c., all complete and nearly new, used in drying animal-sized writing papers. Three Hydraulic Presses—one 32:50 platen, 8 in, piston, 65 feet opening; two 36:48 platen, 10 in. piston, 6 to 10 feet opening. Fis Chilled Calender Rolls, 13 in. diameter, 28 in. long on face.	ESTABLISHED 1820.
No. 3 Boor. 9 G. 101/s   Colored Glased Mediums 12 H3   Bag Nows, No. 1 9 G.   Ordinary Rag Nows. 7 G.   Braw and Wood Nows. 7 G.   Drdinary Manila 61/s   Dordinary Manila 5 G.   Braw and Wood Nows. 7 G.   Bleached Manila, No. 1. 71/s   Bogus Manila 5 G.   Straw Wrapping. 2 G.   Glaand Hardware. 71/s   Unglaazed Hardware. 71/s	best of references. Address J. S., office Paper Trade Journal. WANTED-BY A YOUNG MAN A POSITION as Correspondent, Salesman, or any position where close attention to business would be appreci- ated, either in New York or any part of the country; am a rapid penman, and both quick and accurate in figures; expectations moderate.	Five stacks Super-calenders—one six rolls, 36-in. face; one six rolls, 34-in. face; one five rolls, 34-in- face; two four rolls, 34-in. face. One 63-in. Kneeland Layboy. One stack of six Super Calenders, 31-in. face. Four stacks of Straw Board Calenders, from 30-in. to 40-in. face. One stack Chilled Calenders for boards; two rolls, 40-16 in. One Rag Cutter, two Rope Cutters, one Wood Chopping Machine.	232 & 234 CARTER ST. O
Timmo Manila, 34 x 36, full count.     96     61,00       Timmo, White, 30 x 30     1.30     0     1.50       Tea Papers, 14 x 30.     45     650     50       Tea Papers, 13 x 18.     40     643/2     37/2       Braw Boards, siz Hdried, 10 to	Address X. Y. Z., Care of Paper Trade Journal, 74 Duane street, N. Y. We chine; the wet part of a 62 or 64 inch Four- drinier Machine, from breast roll to couch roll; must be in first-rate order and price low. Address, with full particulars, CANADA PAPER COMPANY, Montreal, Canada. P. 8 The wet part of a 62-inch Cylinder we would	One 300 H. P., two-cylinder Engine, cylinder, 32× 36, prime order; one 50 H. P. Engine, cylinder, 14× 30, Chubbuck's pat, packing; four two-flue Boilers, 34 and 35 feet long; five 45 H. P., Tubular Boilers; one 40 H. P. Green Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J. M. Poole & Co. Engine, cylinder, 12×36; 35 H. P. J.	PAPER MAKERS PPLIES
Paper Stock.     4%6     4%       Mill Amorted White Rags.     4%6     5       White Shirt Cuttings. No. 1     6     6%     6%       White Shirt Cuttings. No. 2     5%     5%     5%       Cotton Canvas, No. 2     4%46     5     5       Cotton Canvas, No. 2     4%46     5     5       Dhore act Thirds     4%46     4%     4%	like, if possible, to put in as part payment at a low figureC. P. Co. W ANTED-BY A PRACTICAL PAPER MILL wright and Machinist a situation to do repairs in a paper mill; have bad fifteen years' experience; best of references. Address MILLWRIGHT, care of Faper Trade Journal.	II. r. poner. One No. 1 Wright's Plunger Pumps; two Holly Fire Pumps; two Rotary Fire Pumps; one No. 10 Heald & Sisco; one No. 6 Heald & Sisco (brass); cue 4-in, and one 12-in. Propellor Pumps: No. 3 Perry Centri- fugal Pump; one No. 5 Holly Pump. One Rice, Barton & Fales Centrifugal Pump, 2-in, pipe, for raising pulp. A lirass Stuff Pump, plunger 4 × 10 inches. Four Starterant Blowers. One large Steam Pump (G. H. Dean & Co.); one 8- in. (Watson) Hrass Pump for Artesian well, with 275 feet of rubber-lined pipe and all fixtures; cost, \$\$, X00:	SOLE AGENTS FOR MINERAL ATTRITION MILLS: AGALITE FILLER.
Gunny Bagging     2560     256       Kentucky Bagging     4146     48       Manila Rope     2940     3       Boft Woolens     8     6     10       Hard White Shavings, No. 1     444     14     444       Soft White Shavings, No. 1     444     444     444       Soft White Shavings, No. 1     3256     324     344	1 Making Cylinders, Seven Drying Cylinders, two sets Press Rolls, two Stacks Calenders with two extra Calender Rolls, Reels and Continuous Feed Cutter, with Driving Gear complete, for a 42-inch Paper Machine. Also four Engine Rolls, 27x30 inches, with stands and lighters complete. Will be sold cheap for cash or approved paper. Apply to ADAMS & CO., Chagrin Falls, Ohio.	feet of rubber-lined pipe and all fixtures; cost, \$3,700; is nearly new, and will be sold cheap. One No. 4 Blake Boller Feed Pump. Two Devil Dusters. One Rag Thrasher. Two 48-in., one 54-in., one 62-in. and one 34-in. Paper Cutters; one 62-in. flatch Cutter; one 62-in. Stop Cutter, built by Smith & Winchester. One Gould Patent Engine. One Kungsland Engine, in good condition. One Standing Press, with guin-metal acrew plate 4 in. by 48 in.; one Sterew Paper Press, surew 8 feet	BEEBE & O'CONNELL, Commission Paper Warehouse,
Mixed Shavings, No. 1     3%60     3       Mixed Shavings, No. 1     3%60     3       White Collar Cuttings, paper.     4%60     5       White Collar Cuttings, cloth.     4     6     4/4       Bold Imperfections     3%40     3%4     3%4       Book Stock     2%40     3%4     3%4       Book Stock     2%40     3%4     3%4       No. 1 Frints, News and Writing.     3%40        Ordinary Frints     15%47     1%60        Manilla Review and Writings.     3%40         Hardware and Manillas.     1%46	PAPER MILL FOR SALE OR LEASE, SITU- ated in the town of Griswold, Conn., known as the "GRISWOLD FAPER MILL" For further par- ticulars inquire of H. H. OSGOOD, Norwich, Conn. POWER PUMPS for PAPER MANUFACTUR- ER8, Tanners, Quarries, Brewers, Starch, Soap, Cotton and Woolen Manufactories. Also,	long. follower, 31 × 60: one Seriew Paper Press, sorrew 7 feet long, follower 31 × 60: Twelve Cutting Presses, from 37 in. to 45 in. wide. One Holyoke Trimming Press. Three Making Cylinders—one, ±5×56; one, ±8×53, and one, 30 × 40. Two 60 in. Case Water Wheels; nearly new. Ten Water Wheels, different sizes. Two Banw's Water-Wheel Governors. Two Bartford Governors.	Continues of the second
Straw Enard Cuttings	SPECIAL FIRE PUMPS for Factories and Villages. Send for Illustrated Catalegue and Price List. H. M. WISWALL, Manufacturer, Water Streat Boston Mass	One 40-in. Leffel Water Wheel Case. One Holyoke Expanding Pulley, 9-in. face, 33 in. diameter. 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 six Revolving Reels, 78-in. face; one	DOMESTIC STOCK A SPECIALTY. 78 DUANE STREET. N. Y.

