

lay in a stock to-day knowing that he can buy at a less figure to-morrow.

As THE JOURNAL remarks editorially: "The demand for concerted action, which should be more generally participated in than heretofore, points the way to a remedy."

The Western Straw Wrapping and Roofing Paper Manufacturers' Association held a convention in Chicago a few days ago, with representatives from all the Western and many of the Eastern States.

Yesterday I had the pleasure of examining the model paper warehouse of F. P. Elliott & Co., at 169 Randolph street, this city.

Mich., the combined production of which is as large, if not the largest, of any one concern in the West. The balance of the company is made up of the well known and justly popular Cornelius Cornwell, president of the Ypsilanti Paper Company, and Cornwell & Bro., of Ann Arbor.

Cincinnati Notes.

[FROM OUR REGULAR CORRESPONDENT.]

The Eastern talk about closing the paper mills for three months in order to make a better demand for paper, and so improve the prices, does not meet with favorable response here.

Messrs. Louis Snider's Sons report business a little dragging as the warm season approaches. There are no special changes in prices, but a little weakening in one or two grades of paper.

cluding several orders larger than usual at this time of the year. He does not believe in stopping mills and throwing operatives out of employment in order to put up prices.

Mr. Irwin, of Elkhart, Ind., who has a mill for the manufacture of writing paper, has been in the city on business. He says the four mills at that place have been running steadily, and have no complaint to make about the lack of demand.

Philadelphia Notes.

[FROM OUR REGULAR CORRESPONDENT.]

Our book publishers are generally holding off ordering paper until after the 1st of July, although many have new stereotype plates ready to print, and require new editions of their standard books for the fall trade.

There is evidence on all sides that the process of depreciation is near the end. That values are relatively lower here than in other countries is demonstrated by the extent of our exports, which so largely exceed our imports.

I regret to announce the suspension of McFarland Brothers, the well known paper manufacturers, who have been extending their operations largely, notwithstanding the depression

in the paper trade. At a meeting of their creditors to-day their assets were represented at \$38,000, of which amount upwards of \$20,000 are bad debts; liabilities, \$23,500.

S. W. Miller, of Salem, N. J., also had a meeting of creditors to-day. Liabilities, \$23,000. The paper stock market is somewhat depressed in certain lines.

Trade prices generally are well maintained with prospects favorable.

We have had this past week some of the largest paper manufacturers of the East to call on us, some of whom I send you names of, viz.: T. A. Mole, treasurer of L. L. Brown Paper Company, South Adams, Mass.; Mr. Perkins, of Bristol, N. H.; Mr. Hubbard, of Norwich, Conn., and J. W. McDowell, of Lambertville, N. J.;

Paper Making and Its Accessories.

BOOKS OF REFERENCE.

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

- AUERBACH.—Anthracen: its Constitution, Properties, Manufacture and Derivatives. 8vo. \$3
BAIRD.—Standard Wages Computing Tables. Folio. 5
BENSON.—Principles of the Science of Color. 4to. 7 50
BENSON.—Manual of the Science of Color. 12mo. 1 25
BESANT.—A Treatise on Hydro-Mechanics. 8vo. 5 25
BOX.—A Practical Treatise on Heat as applied to the Useful Arts. Illustrated by 14 plates. 12mo. 5 00
BOX.—A Practical Treatise on Mill-Gearing. 12mo. 3 00
BOX.—Practical Hydraulics. 12mo. 2 50
BRESSE.—Hydraulic Motors. 8vo. 2 50
BROWN.—Five Hundred and Seven Mechanical Movements. 12mo. 1 00
BURNELL AND LAW.—Hydraulic Engineering. 12mo. 1 50
CALVERT.—Dyeing and Calico Printing, including an Account of the Most Recent Improvements in the Manufacture and Use of Aniline Colors. With dyed Patterns. 8vo. 8 00
CHEVREUL.—The Principles of Harmony and Contrast of Colors and their Application to the Arts. Illustrated with Colored Plates. 12mo. 3 75
COOPER.—A Treatise on the Use of Belting for the Transmission of Power. 8vo. 3 50
CORFIELD.—Water and Water Supply. 16mo. 5 00
CRAIK.—The Practical American Millwright and Miller. 8vo. 5 00
CROOKES.—Handbook of Dyeing and Calico Printing. With dyed Patterns. 8vo. 21 00
CULLEN.—Practical Treatise on the Construction of Horizontal and Vertical Water Wheels. Quarto. 5 00
DOWNING.—The Elements of Practical Hydraulics. 8vo. 2 75
FAIRBAIRN.—The Principles of Mechanism and Machinery of Transmission. 12mo. 2 50
FAIRBAIRN.—A Treatise on Mills and Millwork. 2 vols. 8vo. 16 00
FANNING.—A Practical Treatise on Water Supply Engineering. 8vo. 6 00
FRANCIS.—Lowell Hydraulic Experiments on Hydraulic Motors. Quarto. 25 00
FRESNIUS.—Manual of Qualitative Chemical Analysis. 8vo. 3 50
FRESNIUS.—System of Instruction in Quantitative Chemical Analysis. 4 50
GLYNN.—A Treatise on the Power of Water. 12mo. 1 00
HERRING.—Paper and Paper Making, Ancient and Modern. Plates. 8vo. 3 75
HOFFMANN.—A Practical Treatise on the Manufacture of Paper in all its Branches. Quarto. 15 00
HUGHES.—American Miller and Millwright's Assistant. 12mo. 1 50
JACKSON.—Hydraulic Manual. 8vo. 14 00
JACOB.—The Designing and Construction of Storage Reservoirs. 16mo. 2 50
JOHNSON.—The Practical Draughtsman's Book of Industrial Design and Machinery and Engineer's Drawing Companion. With over 50 Steel Plates. 4to. 10 00

Manufacturing News.

EASTERN STATES.

Nearly all of the mills at Lee, Mass., are reported to be running on half time.

It is reported that the mill at Bennington, Vt., which now stands idle, is soon to be started up and run by some capitalists. It will manufacture, as before, paper board made from spruce slabs.

MIDDLE STATES.

The Howard Iron Works, Buffalo, N. Y., is manufacturing paper cutters which are said to be cheap and efficient. Hydraulic elevators are a specialty of this manufactory, and it has lately received a contract from the State for five.

FOREIGN.

Mexican printers and publishers are suffering from a paper famine. The national mills devote their energies principally to card-board and colored papers, and in the meantime the publishers are often obliged to delay publication for weeks, simply because they have no paper.

WANTED—IN A WHOLESALE PAPER Warehouse in this city, a salesman, having experience in Book and General News Paper Trade. Address: PAPER, office of this paper.

SEND ORDERS TO HOWARD LOCKWOOD, Box 5514 P. O., New York.

THE DIAMOND SELF-CLAMP PAPER CUTTER.

(Patented 1876, in the United States and Great Britain.)

FIRST PREMIUM CENTENNIAL EXHIBITION, 1876.

TESTIMONIALS.

The accompanying Testimonials are from a few of the Paper Makers, Printers and Binders who have our machines in constant use:

Howard Iron Works: MITCHELL, MASS., March 23, 1878. GENTS—The 36-inch "Diamond Self-Clamping Paper Cutter" which we purchased of you April 16, 1877, has been running ever since, and has given us entire satisfaction.

Howard Iron Works: HOLYOKE, MASS., March 22, 1878. GENTS—We have had in use some time one of your "Diamond Paper Cutters," and will say it has given perfect satisfaction.

Howard Iron Works: DALTON, MASS., March 21, 1878. GENTS—Your favor of the 29th inst. is received. We have not had occasion to try the Duplicate Knife. We are pleased to say after nearly six months almost constant work, our first exceedingly favorable impression of the 36-inch "Self-Clamping Cutter" made by you is fully sustained.

Howard Iron Works: LAWRENCE, MASS., March 21, 1878. GENTS—We have had one of your "Self-Clamping Paper Cutters" in use for over a year, and take pleasure in recommending it.

Howard Iron Works: HOLYOKE, MASS., March 25, 1878. GENTS—Your favor of the 19th inst. is at hand. We have been using the "Diamond Paper Cutter" now for some time, and find it does our work very well and we have no fault to find with it; it has given us entire satisfaction and done all the work promised.

Howard Iron Works: CLEVELAND, O., March 21, 1878. GENTS—We have used one of your "Diamond Paper Cutters" for the last two years, and can recommend it to any one wanting a first-class machine. As yet it has not cost us the first cent for repairs.

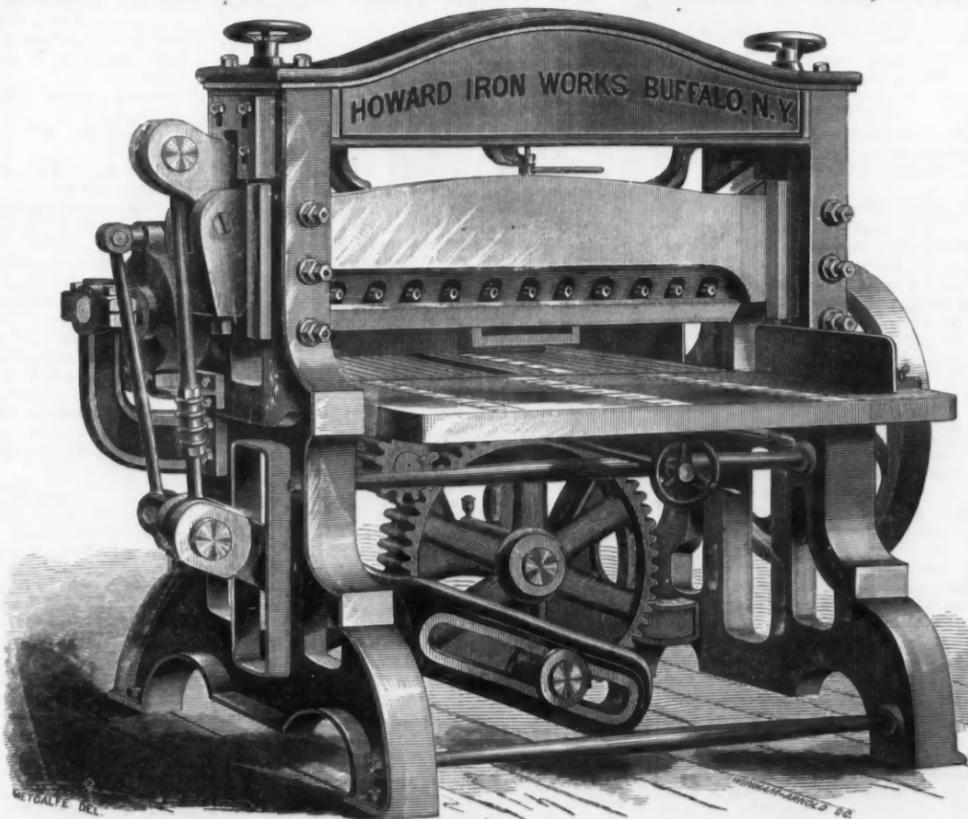
Howard Iron Works: SPRINGFIELD, MASS., March 20, 1878. GENTS—We have had one of your "Diamond Paper Cutters" in constant use in our box shop for two years, and have found it a rapid and reliable cutter. We cheerfully recommend it to bookbinders, printers and box-makers.

Howard Iron Works: SPRINGFIELD, MASS., March 21, 1878. GENTS—The "Diamond Paper Cutter" we purchased from you some two years ago has given perfect satisfaction, not having cost us a single dollar for repairs since it was first started.

Howard Iron Works: CAMBRIDGE, MASS., March 30, 1878. GENTS—Please excuse delay in replying to yours of the 19th inst., the "Diamond Paper Cutter" you furnished has run to our satisfaction, and we regard it as a well built and convenient machine.

Howard Iron Works: CHICAGO, March 23, 1878. GENTS—The "Diamond Self-Clamping Paper Cutter" sold us about one year ago has been in use ever since, and continues to give entire satisfaction. We have cut on it four tons of paper a day at times, and it has never failed yet.

Howard Iron Works: PHILADELPHIA, March 26, 1878. GENTS—We have given your "Self-Clamping Paper Cutter" a thorough test, having cut nearly five million almanacs with it, each of which consisted of thirty-two pages and a cover, and we have every reason to be thoroughly satisfied with the machine. We have used several different kinds, but yours is the best.



The above Cut is of our Extra Heavy Machine for Paper Makers and heavy work.

THE MOST RAPID AND DURABLE SELF-CLAMP PAPER CUTTER MADE.

We would respectfully call the attention of Printers, Book-Binders and Paper Makers to our Paper Cutters. We would call particular attention to our Self-Clamping Paper Cutter known as the DIAMOND SELF-CLAMP PAPER CUTTER. It being automatic and self-adjusting it accommodates itself to any thickness and kind of paper.

VICTOR, GEM, AND OTHER PAPER CUTTERS.

Also all kinds of Embossing Presses, Standing Presses, Lithographic Presses, Hydraulic Presses and Pumps, Power and Foot Stabbing Machines, Backing Machines, Rotary Board Cutters, &c., &c.

TESTIMONIALS.

Howard Iron Works: TORONTO, April 10, 1878. GENTS—The "Diamond Self-Clamping Paper Cutter" we got from you about a year ago gives great satisfaction, works very well, and proves a great saving in time over the ordinary cutting machines.

Howard Iron Works: BUFFALO, N. Y., April 2, 1878. I have had in use during the past year one of your 36-inch Diamond Cutters. It gives me pleasure to state I am well pleased with it as a general machine. The self-clamping device saves time and labor. The machine is equally well adapted for paper cutting and book trimming, the gauge being so arranged that books can be trimmed on three edges without removing them from the machine, making it a very rapid book trimmer.

Howard Iron Works: BUFFALO, N. Y., May 15, 1878. GENTS—We have had one of your large Diamond Paper Cutters in use for the past few months, and are pleased to be able to highly recommend the same. The self-clamping is a great improvement over the old method. We think it is the best cutting machine yet invented for printers and general use.

Howard Iron Works: SPRINGFIELD, MASS., March 22, 1878. GENTS—We wish to say that we have used the "Diamond Paper Cutter" for two years, and find that it works very satisfactorily.

Howard Iron Works: BUFFALO, N. Y., May 13, 1878. GENTS—The "Diamond Paper Cutter" made by you that we have had in use the past two years, has been in every respect satisfactory, and we consider it superior to any cutter we have ever used or have examined.

Howard Iron Works: BUFFALO, N. Y., May 12, 1878. GENTS—We have much pleasure in recommending your Diamond Paper Cutter as being superior to any we have, or have had in use, being very simple, works easy and quick, is satisfactory in every particular.

Howard Iron Works: TORONTO, ONT., 1877. GENTS—We have much pleasure in informing you the cutting machine purchased from you this year gives us every satisfaction. We find the self-clamping a great improvement over the old style of hand-clamping, and have no hesitation in stating it saves about one-third the time formerly taken in cutting. We can recommend the machine to any one who is thinking of buying.

Howard Iron Works: BUFFALO, N. Y., April 30, 1878. GENTS—We have had the "Self-Clamp Diamond" in our bindery for the past six months, and are entirely satisfied with it, and believe it to be the best machine in the market for general use. In reference to cutting the round of blank books there is no difficulty if the knife is sharp and a round stick held up against the top edge, nothing is required for the back.

Howard Iron Works: TORONTO, March 23, 1878. TO WHOM IT MAY CONCERN—This is to certify that the "Self-Clamping Paper Cutter" placed in the bindery of the Methodist book room and printing establishment, invented by the Howard Iron Works, Buffalo, is giving satisfaction, and is all that it was recommended to be and do.

Howard Iron Works: BUFFALO, May 20, 1878. GENTS—I have had one of your "Diamond Self-Clamp Paper Cutters" in use for several months, and consider it the most simple, durable, quickest and best paper cutter in use, and I cheerfully recommend it to any one needing a cutter.

There is less gearing in the Diamond than any other Paper Cutter made, therefore it is less liable to get out of order. Prices as low as the exclusive use of the best material and most thorough workmanship will permit. Prices sent on application. Having discontinued our Store in New York, please Address,

HOWARD IRON WORKS, Manufacturers of Printers' and Book Binders' Machinery, BUFFALO, N. Y.

DIRECTORY.

Cards under this heading will be charged for at rate of \$10 per annum for each card.

NEW YORK HOUSES.

Paper Bags.

- MELVILLE, F. H. & CO., Eclipse Satchel-Bottom Paper Bags, Cor. Greenwich & Chambers sts., N. Y.
CLARK, N. E., Mfg. Machine-made Paper Bags, 172 Fulton st., N. Y.
GORDON & GILBERT, Mfrs.—Paper and Printers, 7 College place, N. Y.
DILLONO, W. L., & CO., Bags and Fruit Paper, 95 Barclay st., N. Y.

Paper and Paper-Makers' Supplies.

- ANDERSON, J. F., JR., & CO., 34 Beekman st.
BEEBE, IRA L., 80 Duane st., cor. Elm.
BENEDICT & HIGHT, 118 William st.
HARD, MELVIN & SON, 25 Beekman st.
HEWITT, C. B., & BRO., 48 Beekman st.
HULBERT, H. C., & CO., 13 Beekman st.
MASON, JOHN W., & CO., 43 Broadway.
MYERS, B. & O., 16 Beekman st.
MURPHY, JOHN J., 47 John & 5 Dutch sts.
PERKINS & GOODWIN, 84 Duane st.
WATSON, GEORGE, JR., 63 Beekman st.

Rags and Paper Stock.

- ATTERBURY BROS., 253 & 255 Front st.
BRIGGS & TAYLOR, 60 Duane st.
BUCHANAN & CO., 38 Rose st.
DALY, DANIEL, Metals, 366 Water st., N. Y.
GROSS, FR. A., 5 Beekman st. (Room 19).
GILDEA, PATRICK, 445 and 447 West 13th st.
HARLEY, GEORGE, 362, 365 & 367 Third st., N. Y.
LYON, J. W., & CO., 35 Park st.
MAHARIN, M. A., 35 Spring st.
O'MEARA, M., 27 Centre st.
PEYTON, ROBERT, Paper Dealer, 122 West Broadway, N. Y.
RUSSELL, MICHAEL, 30 City Hall Place, N. Y.
SMITH, THOMAS, 80 Hester st.
SULLIVAN, EUGENE, 308 Water st.
TAYLOR, M. A., 50 Duane st.
WARD, OWEN, 448 & 450 West 39th st.
PFLUGNER, J. C., 404 & 406 W. Forty-first st., N. Y.
HAYWARD & McNULTY, 6 Gouverneur slip, N. Y.

Paper-Makers' Chemicals and Colors.

- HELLER & MERZ, 55 Maiden lane, N. Y.
HOFFMANN, W. & CO., Ultramarine, 74 Pine st.
RIKER, J. L. & D. S., 45 Cedar st.
KLIPSTEIN, A., Elephant Brand Aluminous Cake, 32 Flatt street, N. Y.
LEVINSTEIN, L. J., & SONS, 42 Duane st., N. Y.

Paper-Makers.

- ORRS & CO., Printing and Hanging Mills at Troy, Office, 39 Park Row, New York.

Jute Butt Brokers.

- CABOT, BOWLES & CO., 85 Beaver st.

Straw Boards.

- BUTTERFIELD, H. A., 548 Pearl st., near Broadway.
HAYES, JAMES E. & CO., 75 Duane st.

OUT OF TOWN HOUSES.

Belt Hooks.

- TALCOTT, WALTER O., Box 630, Providence, R. I.

Binders' Boards.

- SHEEDER, J. FRED., Mfr. of Album, Binders', Trunk and Button Boards, Kimberton, Pa.
BARBER, J. & S. S., Paper Stock and Binders' Boards, 621 and 623 Commerce st., Philadelphia, Pa.

Leather Belting.

- DAVIS, JAMES & SON, Manufacturers of Leather Belting and Patent Lace Leather, Pawtucket R. I.

Paper Boxes.

- COZINE & CO., 380 and 295 Broadway, Albany, N. Y.

Paper Bags and Flour Sacks.

- RAYMOND BAG CO., Mfg. Raymond Pat. Machine-made Paper Flour Sacks, Cincinnati, O., Dubuque, Ia.
BLOOMINGTON PAPER AND BAG CO., "Acme" Satchel Bottom Paper Bags, Bloomington, Ill.

Paper Makers' Chemicals and Colors.

- BLANCHARD, J. HENRY, Chemicals and Wood Pulp, 36 Battery March st., Boston, Mass.
MITCHELL, WM. H., Paper-Makers' Chemicals, 43 North Front st., Philadelphia, Pa.

Paper-Making Machinery.

- ALLEN IRON WORKS, Improved Filter, South Adams, Mass.
DANIELS MACHINE CO., Rag Cutters, Woodstock, Vt.
GAVIT PAPER MACHINE WORKS, 224 to 230 North Broad st., Philadelphia, Pa.
HOLYOKE MACHINE CO., Holyoke, Mass.
SMITH, WINCHESTER & CO., South Windham, Ct.
CAPRON, E. P. H., Improved Turbine, Hudson, N. Y.

Paper Manufacturers.

- JERSEY CITY PAPER CO., White, Colored and Manila Tissue Paper, 285 Wayne st., Jersey City, N. J.

Rags, Paper and Paper Stock.

- ELLIOT, A. G., Paper & Paper Stock, 26 S. Seventh st., Philadelphia.
HALL, WM., & CO., Wool Stock & Mfg. of Shoddy, 25 No. Front st., Philadelphia.
KNIGHT, REEVE L., JR., Book and News Paper and Paper Stock, 523 Commerce st., Philadelphia.
MARKER, JOHN D., & SONS, Wholesale Dealers in Rags, 515 & 517 Commerce St., Philadelphia.
WALSH, D. J., & CO., 6 South Front st., Philadelphia. All kinds of Woolen Rags Bought for Cash.
SIMMONS, JOHN, Wholesale Dealer in Paper and Rags, 30 & 22 Decatur st., Philadelphia.
BAKEWELL, ALLAN C. & CO., Printers' Supplies and Paper Warehouse, 39 Wood st., Pittsburg, Pa.

Rags, Paper and Paper Stock—(Continued).

- BLOCK & POLLAK, Paper Stock, 306 to 286 West Third st., and 39 to 57 McFarland st., Cincinnati, O.
BOYNTON & PERKINS, Paper and Twine. Mfs. of Cotton Twines and Cordage. Providence, R. I.
BUTLER, THOMAS, Dealer in Paper Stock, Woolen Rags, &c., 249 Causeway st., Boston, Mass.

- GILBERT, Wm., & CO., Paper and Woolen Mfs' Materials, 11 & 13 Market st., Chicago, Ill.
GRAHAM & BRO., H. B., Paper Warehouse and Stock Dealers, St. Louis, Mo.
GRAVES & BROWN, Wholesale Dealers in Rags, Corner Church and Arch sts., Albany, N. Y.

- FRANZEN, WM., Wholesale Paper, Paper Stock and Woolen Rags, 60 Oneida st., Milwaukee, Wis.
McARDLE & HART, Cotton and Woolen Rags and Paper Stock, Newburg, N. Y.

- MARKLE, C. P. & SONS, Mfs. of Printing and Glazed Hardware, 136 Second av., Pittsburg, Pa.
MASSACHUSETTS PAPER COMPANY, Paper and Paper Stock Dealers, 259 Main st., Springfield, Mass.

- MAYER, A. H., Rags and Paper Stock Dealer, 1014, 1020 & 1022 N. Twelfth st., St. Louis, Mo.
SNIDERS, LOUIS' SONS, Manufacturers and Wholesale Paper Dealers, 121 Walnut st., Cincinnati, O.

- MURDOCK, L. A., Commission Merchant, Front st. (Bigelow Court), Worcester, Mass.
TIERNEY, JOHN, Dealer in Paper Stock, Old Rags and Metals, 254 Hudson av., Brooklyn, N. Y.

- HEY, LEVI, Dealer in Woolen and Cotton Rags, Paper Stock, Peddlers' Supplies, Rochester, N. Y.
LANEY, JAMES, Dealer in Paper and Paper Stock, Cotton and Woolen Rags, Rochester, N. Y.

- BANNISTER, M. B., & SON, Dealers in Woolen Rags and Paper Stock, Metals, &c., Syracuse, N. Y.

Straw Boards and Straw Wrapping.

- TUCKER'S, E., SONS, Straw Boards, Paper and Paper-Box Mach'y, 160 Trumbull st., Hartford, Ct.

Wire-Cloth Manufacturers.

- STANDARD WIRE WORKS, Belleville, N. J.

FOREIGN HOUSES.

Wood Pulp and Wood Pulp Boards.

- THE GOTHENBURG COMMERCIAL CO. (Limited) Market Buildings, 29 Mincing Lane, London, Eng.

IMPORTATIONS OF PAPER STOCK, PAPER, BOOKS, CHEMICALS, &c.

IMPORTS of Paper and Paper Materials, Books, &c., at the Port of New York, for the week ended June 14, 1878. Quantity given in packages when not otherwise specified.

Table with 2 columns: Item Name and Value. Includes Aniline Colors, Alum, Aluminous Cake, Bleaching Powders, Soda Ash, Soda, Bicarb., Soda, Caustic, Soda, Sal., Ultramarine, Books, Newspapers, Engravings, Ink, Lead Pencils, Paper, Steel Pens, Stationery, Clay, Jute Butts, Jute Rejects, Paper Hangings, Paper Stock, Waste, and a Total of \$180,557.

TOTAL IMPORTS.

Table with 2 columns: Item Name and Value. Includes General Merchandise, Paper, Paper Stock, &c., for the week ending June 14, 1878, totaling \$5,512,876.

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

Table with 4 columns: Port, Rags, Paper Stock, and Manila Stock. Lists ports such as Alexandria, Antwerp, Bremen, Bristol, Cardiff, Copenhagen, Glasgow, Hamburg, Havre, Hogo, Hong Kong, Hull, Leghorn, Liverpool, London, Marseilles, Newcastle, Rotterdam, San Francisco, and Trieste.

EXPORTS of Paper, Books, &c., from the Port of New York to Foreign Ports, for the week ended June 16, 1878, with Aggregates and Values.

BOOKS: cases, to Bremen, 2; to Liverpool, 22; to London, 16; to British North American Colonies, 4; to Havre, 4; to French West Indies, 1; to Mexico, 10; to United States of Colombia, 8; to Argentine Republic, 4.
PAPER, to Hamburg, 5 cs.; to Bremen, 1 case; to London, 217 cs.; to British West Indies, 1,695 rms.; to British Guiana, 4,001 rms.; to Cuba, 2,300 rms., 27

pkgs.; to Porto Rico, 2,900 rms.; to Hayti, 55 pkgs.; to Mexico, 215 do., to United States of Colombia, 55 cs.; to Venezuela, 45 pkgs.; to Brazil, 2,000 rms.
STATIONERY, to Bremen, 1 case; to Liverpool, 3 cs.; to Cuba, 4 cs.; to Mexico, 11 cs.; to United States of Colombia, 45 cs.; to Venezuela, 13 pkgs.; to Argentine Republic, 11 cs.

Table with 2 columns: Item Name and Value. Includes Paper, reams, Paper, pkgs., Paper, cases, Books, cases, Rosin, bbls., Stationery, cases, and Totals.

TOTAL EXPORTS.

Table with 2 columns: Item Name and Value. Includes General Merchandise, Paper, &c., for the week ending June 18, 1878, and Paper, &c., for the year ending May 31, 1878.

NEW YORK IMPORTS.

FROM JUNE 15, 1878, TO JUNE 21, 1878, INCLUSIVE.

- Rags, &c. Lee & Sturges, Constantine, London, 52 bs. rags. Lee & Sturges, by same, 141 bs. paper waste. Geo. Watson, Jr., by same, 57 bs. paper stock. Briggs & Taylor, by same, 100 bs. oakum. O. Keenan & Son, State of Indiana, Glasgow, 50 bs. paper stock. John W. Mason & Co., A. Andre, Antwerp, 36 bs. rags. John W. Mason & Co., A. Andre, Antwerp, 35 bs. old rope. W. H. Parsons & Co., Circassian, Glasgow, 67 bs. paper stock. W. H. Parsons & Co., August Andre, Antwerp, 24 bs. rags. Jos. Libmann, Weser, Bremen, 17 bs. paper waste.

Paper.

- Hosler Bros., Baltic, Liverpool, 1 cs. hangings. E. Faber, Weser, Bremen, 1 cs. C. Kaufmann, by same, 11 cs. Fischer & Keller, by same, 1 cs. hangings. H. Bainbridge & Co., Circassian, Glasgow, 5 cs. A. Hang & Co., Algeria, Liverpool, 4 cs. G. Gennert, Suevia, Hamburg, 6 cs. Fischer & Keller, Canada, Havre, 1 case hangings.

BALTIMORE IMPORTS.

Books.

- F. H. Shallus, Berlin, Bremen, 1 cs. Kelly, Piet & Co., Caspian, Liverpool, 4 cs.

PHILADELPHIA IMPORTS.

Bleaching Powder.

- Powers & Weightman, Indiana, Liverpool, 63 tcs. Soda Ash.

E. Yarnall, Indiana, Liverpool, 63 tcs. Cooper, Smith & Co., by same, 67 tcs. Order, by same, 177 tcs.

Caustic Soda. Order, Indiana, Liverpool, 75 drums.

BOSTON IMPORTS.

Books.

- Estes & Lauriat, Canopus, Liverpool, 2 cs. Schoenhof & Moeller, by same, 1 cs. Geo. Young, Parthia, Liverpool, 1 cs. J. A. Whipple, Siberia, Liverpool, 1 cs. R. H. Salter, Atlas, Liverpool, 1 cs. A. Williams & Co., Marathon, 1 cs. Boston Athenaeum, by same, 2 cs.

Paper.

- Houghton, Osgood & Co., Siberia, Liverpool, 2 cs. printed sheets. W. H. Cundy, Bavarian, 9 cs. sheet music. Codman & Schurtleff, Marathon, 25 pkgs. paper pulp.

Paper Stock.

- Warren & Co., Canopus, Liverpool, 86 bs. paper stock. Train, Hosford & Co., by same, 345 bs. rags. Morey & Co., Parthia, Liverpool, 129 paper stock. S. D. Warren & Co., by same, 32 bs. rags. Train, Hosford & Co., Istrian, Liverpool, 187 bs. paper stock. Train, Hosford & Co., Marathon, Liverpool, 53 bs. paper stock. Crocker, Burbank & Co., by same, 99 bs. paper stock.

Soda Ash.

- Warren & Co., Canopus, Liverpool, 69 cks. Wing & Evans, by same, 45 cks. Morey & Co., Istrian, Liverpool, 184 cks.

Bleaching Powder.

- Warren & Co., Canopus, Liverpool, 222 cks. Sal Soda.

E. & F. King & Co., Canopus, Liverpool, 280 bbls. China Clay.

Sergeant Bros., from South Carolina, 15 cks. R. McNamee & Co., from South Carolina, 4 cks.

Ultramarine.

- Morey & Co., Istrian, Liverpool, 10 cs.

JARVIS' PATENT FURNACE

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

A. F. UPTON, GENERAL AGENT, No. 239 CONGRESS STREET, BOSTON, MASS.

RICH'D LACEY & CO.

133 Pearl Street, New York. BROKERS IN

JUTE BUTTS AND REJECTIONS.

P. O. Box 5431.

STOUT, MILLS & TEMPLE, MANUFACTURERS OF THE



Water Wheel, GEARING AND SHAFTING.

Rag Engines, Wood or Iron Tubs, Rag Cutters, Dusters, Pumps, &c. THE AMERICAN TURBINE, as recently improved, utilizes a higher average percentage of power than any Turbine ever known, which justly entitles it to the position claimed for it as the BEST Water Wheel in the world.

Large Illustrated Catalogue sent free on application to STOUT, MILLS & TEMPLE, DAYTON, OHIO.

TISSUE PAPERS

of the CELEBRATED ENGLISH MAKE, Trade Mark, "Mill No. 682," White, Colored and Silver Tissue, manufactured expressly for Jewelers' and Silver-Platers' use; guaranteed not to tarnish or discolor the goods.

Sole Agent, FRED'K W. SMITH, 351 Canal St., N. Y.

GEARING.

HAVING AT GREAT EXPENSE PROVIDED THE MOST COMPLETE APPARATUS IN THIS COUNTRY WITH PERFECT DIVIDING WHEELS. UP TO 16 FEET DIAMETER. WE ARE PREPARED TO FURNISH

MACHINE MOULDED MILL GEARING,

AS ACCURATE AS CUT GEARING AND MORE DURABLE IN USE.

POOLE & HUNT, BALTIMORE.

SMITH, WINCHESTER & CO.,

South Windham, Conn., MANUFACTURERS OF

PAPER MACHINERY

CONSISTING OF FOURDRINIER AND CYLINDER MACHINES, Washing and Beating Engines.

AIR - DRYING MACHINERY

FOR DRYING SIZED PAPERS. Sole Manufacturers of the

JORDAN PATENT BEATING ENGINE,

Which has no rival for clearing the stock for fine papers.

CHILLED IRON & PAPER ROLL SUPER CALENDERS.

Plate Calenders, Chilled Stack Calenders, Rag Cutters, Hand and Power Cutting Presses, Stop Cutters.

THE HATCH PATENT Stop Cutter,

The only Cutter that can be regulated to cut between water marks of writing papers.

SCREENS,

BRASS AND NICKEL PLATED. The latter warranted to wear twice as long as brass.

BED PLATES, ROLL BARS, FAN AND PLUNGER PUMPS.

Also, Gun Metal Covered Rolls. FOR SIZE AND PRESS ROLLS.

WATER WHEELS.

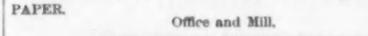
Shafting and Mill Gearing Generally.

JERSEY CITY PAPER CO.,

Manufacturers of WHITE AND COLORED TISSUES.

Crass Bleached Silver Tissue

A SPECIALTY. Warranted not to tarnish silver. Also Manufacturers of MANILLA and ROPE PAPER. Office and Mill, 285 WAYNE ST., JERSEY CITY, N. J.



THE PATENT CONE WASHER

Patented March 20, 1877. ITS ADVANTAGES:

It will wash faster than any washer ever put before the public.

It requires only one instead of two in an engine for washing rags, and washes much faster, giving better results, which are highly appreciated.

It reduces expense of wire covering one-half. It does not get out of repair, as it has lined bearings that are easily taken out and replaced with new ones at a nominal expense.

It can be adjusted to the amount of water at the hydrant.

It is self-lubricating.

It will wash papers as fast as two common washers, and with two in an engine they are invaluable.

It is the best arrangement for washing any kind of stock ever introduced.

These Washers are made in the most substantial manner, and warranted to do all that is claimed for them.

The Washers, or further information, with testimonials, will be furnished by the

SOLE MANUFACTURERS, J. T. EMERSON, Claremont, N. H.

GLENS FALLS Marble Lime

The best bleaching Lime known for PAPER-MAKERS' USE

Osborn & Robinson, AGENTS, 87 Dey Street, N. Y.

The Paper Trade Journal.
 DEVOTED EXCLUSIVELY TO THE INTERESTS OF
The American Paper Trade.
 Weekly, \$4.00 per annum.
 Single Copies, 10 Cents

NEW YORK, SATURDAY, JUNE 22, 1878.

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

THE PAPER TRADE JOURNAL is the recognized organ of the various Paper-Makers' Associations of the United States.

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

Subscription and postage for Great Britain, per annum, £1
 Subscription and postage for France, per annum, 25 francs
 Subscription and postage for Germany, per annum, 8 thalers
 Foreign subscribers may address our New York office.

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

All communications must be addressed to
HOWARD LOCKWOOD,
 Publisher and Proprietor,
 No. 74 Duane street, N. Y.

BRANCH OFFICES.

Philadelphia: 505 CHESTNUT STREET.
 Chicago: LAKEVIEW BUILDING.
 Boston: 36 BROMFIELD STREET.
 London: 13 PATERNOSTER ROW, E. C.
 Paris: 97 RUE NEUVE DES PETITS-CHAMPS.

TO CORRESPONDENTS.

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

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

We have received samples of wood pulp made by the Fletcher process. The fibre is long and has considerable strength, but is rather too coarse and seems to need more treatment. If the manufacturer can work this pulp finer and retain its other qualifications, he ought to be able to claim a share of the market.

THE delay of the straw wrapping manufacturers in reaching conclusions is not working to their good. If production is to be pushed to its extreme limit and more goods put upon the market than the latter can possibly require the paper-makers are likely to be called on to shift for themselves. Some of the paper houses are about to refuse to make further advances, and we know of some which have sent out circulars to the trade announcing the fact. This shows the great need for action and a limit to the production.

CONSULTATIONS seem to be going on generally throughout the paper trade. The wood pulp manufacturers working under the Voelter patents met yesterday. We are informed that there was a full attendance and a general interchange of views. Among the subjects discussed was that of changing prices, but decision upon this point was deferred. It is probable that another meeting will be held next week, when the question of prices will be again taken up. The makers of wood pulp would do well to consider whether excessive production is not to be checked. Prices would not become doubtful if the output of the pulp mills bore a proper relation to the demand.

THE proposed conference of paper-makers is generally favored in the trade. In our correspondence from Chicago we learn that Western manufacturers sympathize in any movement intended to relieve the market, and think that the meeting should very properly be held in Massachusetts. The Western trade ought, however, to be represented at that conference, and if each of the mills interested cannot be represented a delegation should be chosen to attend and give aid and comfort as

well as advise. The sentiment of the paper trade in each of its different lines is in favor of a limited production, and the principle of keeping the market supplied to within a certain amount of its requirements is conceded. In putting this to test lies the difficulty. Every one is anxious to make the most of his opportunities, and the moment a change occurs for the better rushes to pick up the chances for a turn. Cannot the trade unite to prevent this? We believe that they can. A friend reminds us that in 1861 or 1862 the trade were united. One meeting was held, and it was decided to reduce production. The movement succeeded. The paper-makers advanced prices only once, and we are told that buyers did it afterwards for them. It can be done again.

THE catalogue of the Austrian exhibits at the Paris Exposition gives the following facts as to the extent of the paper industry in the Empire: The manufacture of paper has made considerable progress, both in quantity and quality, and since 1874 there has arisen a certain foreign export. At the end of 1877 there were one hundred and forty-four mills, with two hundred paper machines. These are pretty well distributed over the country, but Bohemia alone possesses fifty-two. The largest are in Lower Austria, at Schlogmühl, Klein-Neusiedl, and at Arnau, in Bohemia. The entire production is estimated at seven hundred thousand metric centners. The Voelter wood pulp is much used for medium fine and ordinary papers. Next in order come cellulose and straw pulp. The use of wood pulp is now so considerable in Austria that it gives employment to eighty mills exclusively devoted to its manufacture, while twenty-three other mills are also engaged in paper making. There are only two chemical wood pulp factories and seven making straw pulp. Of late years the imports have decreased, while the exports have largely increased. The latter, which were only 91,777 centners in 1872, had reached 190,933 centners in 1877. Vienna makes a specialty of the manufacture of lace papers, lamp shades, cigarette papers, &c. The number of exhibitors is only twelve. Among them are the Princess Liechtenstein, Steinbrenner (2,000,000 prayer-book covers annual production), and a few bookbinders. The remainder are paper-makers.

Correspondence.

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

Wrinkling and Cutting on the First Felt

WESTVILLE, Conn., June 19, 1878.
 To the Editor of The Journal:
 I see "Dog Cutter" would like to know how to stop his first felt from wrinkling and cutting on the edges. He will have to get his press rolls turned off. They press the hardest on the ends, and for that reason all the strain that comes on the felt to turn the cylinders is confined to three or four inches on each side of his felt. To prove it, take off the felt and turn some oil on the press rolls when they are running and you will soon see where they press. The trouble is most often in the top roll.
 GREENHORN.

"Can't C It."

To the Editor of The Journal:
 Your correspondent "C," who has ventured an opinion on "Water Mark's" difficulty, has done so without seeing the paper called water marked. Will the editor of THE JOURNAL please send him a sample sheet? Wove marks caused by a vibration of the slices is a horse of a different color and does not belong here. I have enclosed for examination at THE JOURNAL office a piece of a second felt that was taken off from one of our machines because it made a wavy impression in the paper corresponding exactly with a sheet of the so-called water marked paper now in my possession. In using this felt we found that the water mark was more distinct in thick than in thin papers, but would vary according to the amount of pressure used on the first and second press rolls. MANUFACTURER.

Improvements—Coaching.

To the Editor of The Journal:
 I see by the last issue of THE JOURNAL that "Manufacturer" still keeps adding a little at a time to the Dixon improvement. If he keeps on in this way much longer he will soon have to give us a new drawing. It will be remembered

by the readers of THE JOURNAL that the first introduction to this new improvement was the Dunn & McAlpine felt cleanser, which is said to be a good thing for keeping the felt clean; and now, as if to make the apparatus complete, another roll for the purpose of receiving the start-up paper has recently been added to it. This roll, if I understand the arrangement correctly, rests on the upper portion of the bottom felt. I am afraid this last addition to the improvement, unless the roll is raised up and driven by belt, will not give satisfaction, simply because, as the paper on the roll accumulates it will have a tendency to press the felt down, thus tightening it for the time being, but when the roll is removed or taken away, the felt will get loose. We are greatly indebted to James Harper for his practical remarks on this subject, still I think when he had his hand in he might have said more. As the couch and press rolls are connected together by a felt which passes between both, it is essential for the safety of the felt that both should start up and stop at the same instant. Now, it is a clear case with our present couplings or clutch that this cannot be done except by raising the top couch-roll or top press-roll out of its place. What seems to puzzle Mr. Harper at present more than anything else is want of air in coaching. That obstacle, according to my way of thinking, could easily be overcome by making the bottom couch-roll after the same fashion as the making cylinder on cylinder machines, with open under face. The facings could be put on the roll so that there would be no seam to injure the wire, or for that part of it the face of the roll could be made to resemble screen-plates and run without jacket.

MACHINE TENDER.

Changes, Removals, and New Firms.

Frank Sands, printer, Lewiston, Me., has sold out to Arthur Sands.
 The firm of Werner & Buchtel, publishers, Akron, Ohio, has been dissolved.
 H. Berthelot & Co., publishers of *Le Canard*, Montreal, Canada, have dissolved partnership.
 W. D. Chase has retired from the firm of Chase, Fogg & Co., publishers of the *Chronicle*, Auburn, Me.
 The Co-operative Printing Company, Cleveland, Ohio, has sold out to J. H. Wiseman and E. B. Harvey, who continue under the same style.
 Ed. Herrmann, paper dealer, New York city, has admitted Louis E. Herrmann to partnership, and the style of the firm is now Edward Herrmann & Son.
 The firm of Geo. H. Reay & Co. has been reorganized. Mrs. Reay still remains in the business, and S. C. Hubbard has become a partner and will be the manager. The firm name will be M. A. Reay & Co., and it will continue at the old stand in John street, this city.

The firms of Scribner, Armstrong & Co., and of Scribner, Welford & Armstrong, publishers, New York City, have been dissolved, Andrew C. Armstrong retiring. The business of the first named firm will be continued by John B. Scribner and Charles Scribner, under the style of Charles Scribner's Sons. J. B. Scribner and Charles Welford succeed the firm of Scribner, Welford and Armstrong, under the style of Scribner & Welford.

Failures.

F. W. Bachman, dealer in books, Peoria, Ill., is offering to compromise at 25 cents.
 John H. Bostwick, dealer in books, Richmond, Ind., has applied for relief in bankruptcy.
 John Belcher, dealer in imported writing papers, envelopes and paperies, at No. 28 Beekman street, made an assignment on Thursday, June 20, to John T. Seymour for the benefit of his creditors. Mr. Belcher was the successor of Belcher & Houghton, and has been in the paper business for many years, being agent for Ward's Irish linen papers. The liabilities are stated at \$15,700. Assets are not given, but will be when stock is taken. The failure is attributed to losses in book accounts, depreciation in stock, and stagnation in business.

The personal property of A. F. Blair, of the Gavit Machine Works, Philadelphia, now in the hands of the sheriff, will be sold by auction on the 28th inst. All of the machinery, castings, iron, &c., are being assorted and catalogued preparatory for the sale. An effort is being made to form a stock company to buy in the material and go on with the works. A meeting of manufacturers of paper was to be held at the office of the works yesterday afternoon for the purpose of discussing the question of raising funds to form a company. Very much of the paper machinery in use in the mills in Pennsylvania and New Jersey was made by the Gavit Works; hence the paper manufacturers are desirous of seeing the works start up again.

Personal.

Anson Herrick, of C. M. & A. Herrick, publishers of the *Guardian*, Paterson, N. J., is dead.
 Wellington Smith, of Lee, Mass., and Miss Annie M. Bullard, of the same place, were married on Wednesday last. The happy couple will make an extended wedding trip.

In Town.

H. R. James, Ogdensburg, N. Y.; W. W. Harding, Philadelphia, Pa.; C. Burhaus, Saugerties, N. Y.; F. H. Hamner, East Hartford; Jno. Worthington, Cooperstown, N. Y.; E. S. Ely, Norwich, Conn.; Geo. West, Ballston Spa, N. Y.; A. E. Dickinson, Holyoke, Mass.; E. P. Fen, Holyoke, Mass.; S. A. Gibson, Kalamazoo, Mich.; Daniel Alexander, Mill River, Mass.; John Watson, Loudville, Mass.; T. Mudge, Baltimore, Md.; A. Tevis, Philadelphia, Pa.; S. G. Train, Boston, Mass.; Samuel P. Train, Boston, Mass.

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 YORK CITY.

Mortgagor.	Mortgagee.	Amount.
Johnson & Uhler.....	\$410
H. De Mariel.....	Julia M. Graham, (R).....	192
H. De Mariel.....	L. Francis (R).....	824
T. F. Donovan.....	S. J. Donovan.....	1,700
John Filmer.....	W. H. Woodcock (R).....	2,388
Walter Logan.....	W. Forbes.....	2,000
H. H. Price.....	2,500
I. C. Tyson, b. s.....	3,000

EASTERN STATES.

J. O. Lyman & Co., Meriden, Conn.....	150
Welch & Bigelow, Cambridge, Mass.....	5,000
Geo. E. Stanley, Cambridgeport, Mass.....	516
S. J. Lombard, Boston, Mass., b. s.....	150
Henry Seavey, Fall River, Mass.....	250

WESTERN STATES.

James M. Pemental, San Francisco, Cal.....
Thos. J. Bain, Columbus, Ind.....	50
C. T. Brewster, Council Bluffs, Ia.....	100
J. C. Leonhardt, Bay City, Mich.....	1,500
P. E. Werner, Akron, O.....	1,103
Emily F. Belden, Milwaukee, Wis.....	1,667
John C. Cotter, San Francisco.....
J. L. Burling, Chicago, Ill.....	80
National Board of Trade Pub. Co., Chicago, Ill.....	300
Jos. A. De Freitas and wife, Springfield, Ill. (real).....	900

Accidents.

Michael McDonald one of the employees of the Union Paper Manufacturing Company, Holyoke, Mass., fell through an elevator a few days ago, sustaining no fatal injury, although cutting his head badly, and breaking one of his arms and three ribs.

Obituary.

CHARLES O. LEWIS.

Charles O. Lewis died at his residence in Brooklyn on Saturday, the 15th inst., after a brief illness. Mr. Lewis was thirty-three years of age at the time of his death, and for the past ten years had been connected with W. H. Parsons & Co., of this city. Of late years he had full charge of the paper-making materials imported by the house, in this way coming in contact with many of our best manufacturers, by whom he was greatly liked. One of the oldest paper-makers, writing to the firm, says, "I can truly say that no salesman ever came into my office whom I was more pleased to see." The trade loses one of its most promising young men in the death of Mr. Lewis. In social life Mr. Lewis was highly esteemed. He was Superintendent of Trinity Church Mission Sunday School, Brooklyn. The funeral took place on Tuesday at Trinity Church, and was very largely attended.

The Straw Wrapping Paper-Makers.

The Straw Wrapping Paper-Makers' Association held a meeting at Albany on Tuesday, which was more largely attended than any other held by the organization. Representatives were present from nearly every prominent mill in the State, as well as many engaged in other branches of the business. The discussions of the condition and prospects of the trade were very full, and the views expressed almost unanimous in one direction—that over-production was ruining the business.

The committee appointed at a previous meeting to visit the mills in different parts of the State, examine their condition, and consult with manufacturers as to the best means of remedying the evils resulting from over-production, reported having discharged their duty. They found everywhere a strong desire to reduce the amount of goods turned out, but each one seemed to think that his neighbor, and not himself, should cut down to half or three-quarters of the present output. The large mills are generally willing that the reduction shall be made pro rata, while the smaller manufacturers assert that all should be put on a par, so that the latter might run at nearly or quite full capacity, while the larger would not be able to run one-third time. This, of course, did not suit the owners of the larger mills, and some of them asserted that unless an amicable and fair arrangement was made equally beneficial and satisfactory to all, they would run to the full extent, and submit to such loss as might result for a time in order to crush out the smaller. The discussion lasted the greater part of the day, and the proceedings wound up by instructing the committee to devise some plan to which all can agree, and which will accomplish the object aimed at, and report the same at a meeting to be held on July 9. The utmost good feeling and harmony prevailed during the session, and the most cordial expressions of good will were interchanged between the members at parting.

One member remarked that appearances indicated that they would be obliged to cut down their production from want of water, as there had been very little rain in the northern and western sections of the State for some time, and in consequence the streams were very low. This would relieve the committee from a duty they would no doubt gladly be rid of, and save much ill feeling that may be engendered by a compulsory suspension at a later day.

A meeting of paper-collar manufacturers was held in this city on Thursday last. It was agreed to unite upon a plan for making prices uniform. A pooling arrangement is also to be effected by which compensation will be made for any falling off or excess of the proper business of each factory. This, it is expected, will do much to destroy the close competition of the makers, so that they will not be obliged to resort to fancy boxes and similar attractions to sell their goods.

The contract for furnishing the Post-Office Department with dead-letter and registered package envelopes was awarded to White & Corbin, Rockville, Conn., last week at 23 per cent. less price than was paid for the same last year.

Photographic Papers.

Paper for photographic pictures must be perfectly uniform in strength, pliability, and thickness, but especially must have no chemical or other impurities. The slightest trace of iron, even when not observable in the paper, would produce disturbing spots under the influence of chemicals. The manufacturer who fulfills these conditions does all that can be done in this branch of art, and this it must be said is, so far, very little. To attain this aim requires a combination of every favorable condition. In the first place the factory must have pure water, as clear as crystal, and, above all, free from minerals. Every step in the manufacture must be conducted with the most exact care, and this can only be done where the technical manager has a thorough knowledge of the fibres and their nature, and where the men employed have been brought up from childhood to their work.

Two manufactories supply almost all the photographic paper used in the world—those of Steinbach, at Malmédy, and of Blanchet, Frères at Kleber, at Rives. The latter manufacturers allow any visitors to inspect their establishment. The factory lies close to the town of Rives, a few miles from Grenoble, and consists of several buildings. The brook which supplies the water for washing has a very short course from the spring, but receives many important additions in its course. The banks belong to the firm, and every possible care is taken to keep the water pure. It is perfectly free from iron and as clear as crystal, but contains so much lime that it may be called an alkali; the water is passed through several filters. The rags are, of course, the best white, and are carefully cleaned and cut. The boiling is done in rotary boilers, which are lined with non-corrosive metals, so that the rags may not come in contact with the iron. The lime solution is carefully skimmed several times, and strained so that no impurities can come from this source. The rag-beating engines are built of brick and cement, and lined with faience plates, and the roll bars are of brass. The stoneware plates are simply pressed on a layer of cement, and give the engines the appearance of being made out of porcelain. The stuff vats and half-stuff boxes or drainers are arranged in the same way. The pulp and water pipes are also lined, so that the contents may not come in contact with the iron. The ordinary water apparatus, engines and sand traps are sufficient for any impurities heavier than water; but an arrangement has been made in this factory by which the pulp (which has been washed already in the engine) is cleansed from any floating scum or dirt. The machine, on photographic paper, is worked very slowly, at a snail's pace, and everything is brought into requisition to have it run, if we may use the word, regularly and smoothly. The evaporating steam of the driving engine must not, therefore, be allowed to heat the drying cylinder, but goes into a condenser. The drying cylinder must be fed with direct steam, and the pressure regulated with a Legat regulator.

Technical Education.

The growing appreciation of art in this country indicates higher education and a departure from the rigid rule which discards everything as practical that does not conform to the ideas of all for use and nothing for ornament. Art and usefulness are not antagonistic terms. In fact, they are synonymous, for art is the foundation of value, and the most ordinary appliance for homely uses would fail to achieve its purpose but for the art which governs its construction. It is therefore a good sign when people come to see the intimate connection and mutual dependence of art and mechanical construction. The technical education of the people is of the highest importance, and the establishment of schools where these relations are taught and practically worked out together shows that proper steps are being taken to harmonize them and to advance industrial knowledge. These schools are taking a very high position in Europe, and their graduates find easy access to positions of importance and profit, their education taking the place of capital and serving to recommend them to the esteem and favor of the Governments and individuals who stand in need of skilled talent. A beginning of technical education in schools especially founded for the purpose has been made in this country, and the results so far are favorable. The movement ought to be, and we hope will become, more extended, until every branch of industry is brought to learn that mechanical execution ought to pass beyond routine, and that art and skill are both handmaids of progress.—*Jeweler, Silversmith and Watchmaker.*

Counterfeits and Forgeries.

An English paper asks: "Is there anything that we can be sure is genuine in this world of shams, counterfeits, and fraudulent imitations? Are the hall-marks visible on what are called gold and silver fictitious, and are the articles on which they seem stamped not really made of sterling but of base metals ingeniously coated to deceive the eye? Are crisp and clean bank-notes, neatly-manufactured letters of credit, bills of exchange, cheques, and other representatives of cash mere pieces of worthless paper, or the valuable securities they profess to be? Are bonds, deeds, leases, mortgages, to all appearances good in form and execution, what they seem, or only artistic fabrications and forgeries? Invertebrate skeptics may answer these ugly questions with a sardonic grin, and people who are not absolute skeptics may be pardoned if, seeing the numerous reports of cases of fraud and forgery exposed in the police and other criminal courts, they begin to doubt the genuineness of things in general, suspect that all is not gold that glitters, and lose trust in the evidence of their senses. When they find experienced bankers deceived, sharp attorneys bamboozled, lynch-eyed money-lenders taken in and done for by clever rascals handy

with the pen and accomplished in fabricating all kinds of documents and securities, they can hardly have confidence in any written instrument, however fair to the sight, and apparently genuine.

The last and most alarming of the disclosures is that made in the magisterial investigation of the case of the American doctor committed for trial at the Central Criminal Court on the charge of forging letters of credit to the amount of £100 on the London Joint Stock Bank, and with changing a cheque for £5 11s. 8d. into one of £511 0s. 8d. with intent to defraud the Central Bank of London.

Market Review.

OFFICE OF THE PAPER TRADE JOURNAL, FRIDAY EVENING, JUNE 21, 1878.

THE MONEY MARKET.—Loanable funds continue to show great ease with the increasing dullness of trade incident to the season; call loans on Government bonds being reported at 2 to 3 per cent., while 3 and 4 1/2 per cent. were the rates on stock collaterals.

Government bonds have ruled very steady throughout the week, and the market closed strong on the news of the defeat by the House of the Senate amendments to the Resumption act; this result had the effect to strengthen the United States bonds in London as well as the local market.

The gold premium has ruled weak, the range having been between 100 1/2 and 100 3/4; and as the date for the payment of the July interest (\$23,000,000) approaches, the tendency is likely to be towards a lower rate. The following are the quotations for the week:

Table with columns: Opening, Highest, Lowest, Closing. Rows for June 15, 17, 18, 19, 20, 21.

Foreign exchange has shown very little change, the continued heavy balance of trade in our favor, and the easy condition of the London money market keeping the rates down. The posted rates for bankers' Sterling are to-day \$4.85 1/2 for 60-day and \$4.87 1/2 for sight, and the market was dull and undecided.

General Notes.

There must be something wrong at Naples. The printing house of De Angelis, employing sixty compositors, has been compelled to shut up for want of paper. Whether this was owing to unpaid bills at the paper mill or to a scarcity of the manufactured outcome of what has generally been considered as in luxurious abundance at Naples, is not said.

The Commissioners of the new Capitol at Albany have awarded the contract for five hydraulic power elevators to the Howard Iron Works, of Buffalo, N. Y. Four of the elevators are for passengers and one for freight. The amount of the contract is \$25,025, exclusive of the inside finish of the cars. The machines and implements turned out by the Howard Iron Works are all the best of their class.

An approximate list of all the newspapers in existence in the world has lately been drawn up, and the total has been found to amount to about 23,000, edited by something like 60,000 journalists. Nearly 9,000 newspapers or periodicals are published in North and South America; 2,500 in England; 2,000 in France; 1,500 in Austria-Hungary; 1,200 in Italy; 500 in Russia; 500 in Switzerland; 350 in Spain; 300 in Belgium and in Sweden; 250 in Portugal, in Holland, and in Denmark; 100 in Turkey and in Greece; 500 in Asia; 100 in Africa, &c., &c.

PROCESSES FOR RESTORING WRITING EFFACED BY TIME. (M. E. Bibra.)—The general method employed for reviving ink faded or indeed completely effaced by time consists in passing over the paper a brush dipped in fresh-made sulphuret of ammonium. The excess of this reagent is removed by water from the washing-bottle, and the document is then dried, either by the application of a gentle heat or by pressure between folds of blotting-paper.

A. C. Swinburne was invited to attend, as representative of English poetry, the Paris celebration of the Voltaire centenary, but was unable to be present. Victor Hugo had taken pains to see that a seat beside him was reserved for Mr. Swinburne. The most romantic incident connected with the celebration was the formal opening of the windows of the room in which Voltaire died. The house, which forms the corner of the Quai Voltaire and the Rue de Beaune, belonged to the Marquise de Vilette at the time of Voltaire's death; and, in memory of the great philosopher, she caused the windows to be closed immediately he expired, and a special clause in her will ordered that they should not be opened until a hundred years had elapsed from that date.

SPECIAL NOTICES.

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

Fourth Edition—Now Ready

LOCKWOOD'S DIRECTORY OF THE Paper Trade. 1878.

This Directory contains a full and detailed description of every Paper Mill in the United States and Canada.

This Directory is octavo in form, is printed on the finest book paper, handsomely bound in cloth, and as a work of reference is indispensable to every Paper-maker, Paper and Paper Stock Dealer, Stationer, or any one connected with the trade.

LOCKWOOD'S DIRECTORY is the only STANDARD authority of the kind, and is constantly consulted by the Trade in all parts of the country.

PRICE, - - - \$2.00.

HOWARD LOCKWOOD, Publisher, 74 DUANE STREET, N. Y.

jobbing inquiry for Old Papers and sales were made at somewhat lower prices. The quotations for some of the leading kinds are: Hard and Soft Shavings, Solid Folios and Old Blank Books, &c.; Cream Shavings, 5c; Paper Collar Cuttings, Ledgers, Letters and Briefs, 3 1/2c; White and Buff Railway Sheets, 2 1/2c; White and Colored Shavings, 2c; Old Newspapers, Letters, and Broken News, 2c; Brown Papers and Railway Tickets, 1c. We note a sale of 5 tons Ledger Stock at 3 1/2c.

STRAW.—There is a little better demand, with prices, however, unchanged and very steady. We quote: 40c. for Long Rye; 35c. to 40c. for Short Rye, and 30c. to 35c. for Oat.

ROSINS.—The market is quiet, and business is not pressed to admit of concessions, and prices are steady and without material change. The quotations are: Common Strained at \$1.55; Good do., \$1.65; E at \$1.70; F at \$1.80; G at \$1.95; H at \$2.10; I at \$2.40; K at \$2.85; M at \$3.20; N at \$3.65; and W at \$3.75 to \$4.25.

CHEMICALS.—The market continues quiet, and there is only a jobbing trade doing. Prices are unchanged, except Bichromate may be quoted 1/2c. lower, and Caustic Soda is a shade off. Sales occurred as follows: 100 casks Bleaching Powders, at 1.25c. currency; 50 tons Soda Ash, 48 to 56 per cent. at 1.65c. gold; 25 drums Caustic Soda, 60 per cent., at 3.65c. gold; 50 cks. Sal Soda, at 1.20c. gold; 100 barrels Lump Alum at 2 1/2c. currency; 50 barrels Ground Alum at 2 1/2c. currency; 100 barrels Potash Alum at 2 1/2c. currency; 50 bbls. Concentrated Alum at 2 1/2c. currency; 50 tons Aluminum Cake at 2c. currency; 10 casks Yellow Prussiate at 23c. currency; and 10 casks Bichromate at 1 1/2c. currency.

COAL.—We have to report a continuance of the inactive market heretofore noted for Anthracite. Seward's Coal Trade Journal says: "Dealers and shippers state that sales have been of no great volume; the shipments on sales made some time since continue large, and it is a notable fact that stocks at the shipping ports are now very much reduced in quantity. We hear of proposed advances in price, and reductions of tonnage for July, and when the varied proportions of these items are definitely agreed upon and become known, we expect a stir in the matter of orders for coal to be delivered right away. The month of June last year saw coal at the lowest it had been for years. The December sale reflects the effect of an agreement among the coal proprietors, and the last sale, say the net market rate for that particular variety. At the time of writing we have no official notice of an auction sale, but it is to be presumed there will be one on the last Wednesday of the month. A meeting of the sales agents will be held the last of this week, and the regular meeting of the Board of Control at Philadelphia on Monday next. It is to be hoped that nothing to upset the brightest hopes of the conservative party will occur. We have it upon good authority that manufacturers are not buying for future wants to a great extent, preferring to take the chances of paying more for their coal. Bituminous is reported inactive this week, prices at which sales are made being reported as low and unprofitable, whether the coal be loaded at a point in Pennsylvania, New Jersey, Maryland or Virginia. The product of the mines of the Cumberland coal region for the week ending Saturday, June 8, 1878, was 40,204 tons, and for the year to that date, 537,813 tons, a decrease of 33,961 tons, as compared with last season. At Boston the market is extremely dull, and altogether in a peculiar condition. The Shipping List is authority for the statement that the excitement existing at the time of the last auction sale has flattened out, and the market is very dull." The quotations at tide-water are: Lump, \$4; Broken, \$3.75; Egg, \$3.75; Stove, \$3.90; and Chestnut, \$3.25.

THE PAPER TRADE.—The market during the past week was dull, and the volume of business doing was limited, as compared with the improved condition it presented the week previous. At the close a weakening tendency is shown, although no material change in values is anticipated. There is an entire absence of any sign of a speculative feeling, and a general indisposition on the part of buyers to lay in stock beyond their immediate wants, the transactions being confined mostly to jobbing lots, and in some cases where sales occurred concessions were made by the sellers. The trade in some special grades of Paper, such as those used for fine catalogues and dry goods Wrappings has been rather more active, and prices for these lines have been well sustained. Other kinds have not varied, and the request is very light. While our local consumption affords such little relief, the demand for shipment to foreign points continues to take out a large amount of stock. Writings are in only limited call. Ledgers and Records are in slow movement, except for the former there has been some inquiry for July sale, usual at this period. In Engine-Sized and Superfine Flat Caps there is a moderate amount changing hands, and a more encouraging prospect for the near future. In Book Papers there has been no change to note, and the movement continues light. Super-Sized and Calendered meet with some call, and Extra Machine Finished of low grades are somewhat in request. News Papers remain unchanged, the supply being ample for all wants, and there is no over-accumulation of stock. Sales are still made on the basis of 7c. for ordinary qualities. The market for Manillas continues to rule very low in price, with goods in full supply and no very great call. The local wants for Straw Boards are fair for the season, and although the market shows a dull tone prices continue steady, sales being yet made on the basis of \$43 to \$45 per ton for State and Pennsylvania air-dried. As publishers are doing only little now the trade in Binders' Boards is dull, prices are low and stock is not much sought for. The anticipated action of the manufacturers of Straw Wrappings to curtail the supply has failed, the meeting held last Wednesday adjourning without coming to any practical agreement. The present production is largely in excess of the demand, and if continued the price must fall still lower, and in view of this belief large accumulations of goods are now being sold by parties who have made advances. Good qualities of Straw Wrappings can now be had at 2c., which is near the cost of production.

PRICES CURRENT.

NEW YORK MARKET.

Table with columns: Paper Market, Dealers Selling Prices. Rows include Ledger and Record, Flat Caps, Superfine, Flat Caps, engine-sized, Blotting, English, Book, super-sized and crested, Book, super-sized and tinted, Book, extra machine finish, low grade, Book, extra machine finish, tinted, Book, No. 1, Shavings & Imperfections, Hanging, Superfine, No. 2, Hanging, Superfine, No. 3, Hanging, Machine Satin, No. 1, Hanging, White Blank, No. 2, Hanging, White Blank, No. 3, Hanging, Curtain, Hanging, Buff, Hanging, Brown, Colored Papers, Double Mediums, Colored Papers, Glazed Mediums, Colored Papers, Tobacco, Colored Papers, Tissues, 30x30,ream, White Tissue, 30x30,ream, White Tissue, 34x36,ream, Manilla, Flour-sack, cream, Manilla, Flour-sack, drab, Manilla, Rope, unbleached, Manilla, No. 1, light weight, Manilla, No. 1, heavy weight, Manilla, No. 2, Ordinary Wrapping, Manilla, No. 2, Manilla, Bogus, Tissue Manilla, full count, weight and size, 11x15, other sizes in proportion, Hardware, light colored, Hardware, No. 1, glazed, Hardware, No. 2, glazed, Binder's Boards, #1, #2, #3, Straw Boards, air-dried, No. 1, #2, #3, Straw Boards, steam-dried, No. 1, #2, #3, Straw Boards, steam-dried, No. 2, #1, #2, #3, State, #1, #2, #3, Straw Boards, air-dried, Penn., #1, #2, #3, Straw Boards, air-dried, State, #1, #2, #3, Straw Wrapping, basis, 15x30, 10 lb, 30 sheets, 30x40, 30x49, 34x36, 32x32.

Table with columns: Woolen Rags, Rags, Rope and Bagging, Shavings and Old Paper, English Rags, &c., English Old Papers and Shavings, Hamburg Rags, &c., Linen Cuttings, S P F F, square bale, S P F F, long bale, S P F F, square bale, S P F F, square bale, F F X, square bale, Extra Fine Blue Linen, light color, L F B, square bale, L F B, long bale, Gunny Bagging, No. 1, Burlap Bagging, No. 1, Shirt Cuttings, square, C S P F F, square bale, C S P F F, long bale, C S P F F, square bale, F R, square bale, C F X, square bale, Extra Fine Blue Cotton, C F B, square bale, Cotton Canvas, Rope, W R (tarred), W R (white), M R (manilla), Old Papers, Leghorn and Genoa Rags, Alexandria Rags, Memel Rags, Trieste Rags.

Table with columns: Kingsberg Rags, Japanese Rags, Chemicals, Coloring Materials, &c., BOSTON MARKET, Paper Stock, Leghorn Rags, Alexandria Rags, Smyrna Rags, Constantinople Rags, New Papers, Chemicals, Philadelphia Market, Paper Market.

No. 2 Book	10	104
Colored Glazed Mediums	14	15
Bag News, No. 1	9	34
Ordinary Rag News	7	34
Straw and Wood News	7	34
Bleached Manila, No. 1	8	34
Ordinary Manila	7	34
Bogus Manila	2	34
Straw Wrapping	2	34
Glazed Hardware	8	34
Unglazed Hardware	7	34
Tissue Manila, 24x36, full count	10	100
Tissue, white, 20x30	1.40	1.50
Tea Papers, 14x30	45	50
Tea Papers, 13x18	40	45
Tea Papers, 12x16	35	37
Straw Boards, air-dried, 7/100	\$45.00	\$50.00
Straw Boards, steam dried, 7/100	50.00	55.00
Binders' Boards, 7/100	75.00	80.00
Leather Boards	5	7
Wood Pulp Board, 7/100	60.00	70.00

White Rags	4 1/2	5
Mill Assorted White Rags	4 1/2	5
White Shirt Cuttings, No. 1	6	6 1/2
White Shirt Cuttings, No. 2	5 1/2	5 1/2
Cotton Canvas, No. 1	3 1/2	3 1/2
Cotton Canvas, No. 2	3 1/2	3 1/2
Linon Canvas, No. 1	4 1/2	4 1/2
Blenders and Thirids	3	3 1/2
Colors	2 1/2	2 1/2
Jute Butts	2 1/2	2 1/2
Black Colors	1 1/2	1 1/2
Gunny Bagging	4 1/2	4 1/2
Kentucky Bagging	4 1/2	4 1/2
Manila Rope	3 1/2	3 1/2
Soft Woollens	8	10
Hard Woollens	8	10
Hard White Shavings, No. 1	4	4 1/2
Sort White Shavings, No. 2	3 1/2	3 1/2
Mixed Shavings, No. 1	3 1/2	3 1/2
Mixed Shavings, No. 2	3 1/2	3 1/2
White Collar Cuttings, paper	4 1/2	4 1/2
White Collar Cuttings, cloth	4	4 1/2
Solid Imperfections	3 1/2	3 1/2
Book Stock	3 1/2	3 1/2
Newspaper Stock	3 1/2	3 1/2
No. 1 Prints, News and Writing	3 1/2	3 1/2
Ordinary Prints	1 1/2	1 1/2
Manilla Envelope Cuttings	3	3 1/2
Manilla Papers, No. 1	1 1/2	1 1/2
Hardware and Manillas	1 1/2	1 1/2
Straw Board Cuttings	3 1/2	3 1/2
Binders' Board Cuttings	3 1/2	3 1/2
Common Papers	3 1/2	3 1/2

PP No. 1 Linsens	6	6 1/2
PP No. 2 Linsens	5 1/2	5 1/2
TT No. 3 Linsens	4 1/2	4 1/2
EE	5	5 1/2
F No. 1 Cotton	5	5 1/2
S No. 2 Cotton	3 1/2	3 1/2
T No. 3 Cotton	3 1/2	3 1/2
B No. 4 Cotton	3 1/2	3 1/2
White Linsens Sicily Rags	3 1/2	3 1/2
Russian Rags	5	5 1/2
LPB	4 1/2	4 1/2
EE	4 1/2	4 1/2
LL	4	4 1/2

Aluminous Cake	2	—
Alum. Concentrated, 1st Star	2 1/2	2 1/2
Alum. lump, currency	2 1/2	2 1/2
Alum. ground, currency	2 1/2	2 1/2
Alum. potash, currency	2 1/2	2 1/2
Alum. porous, currency	2	2 1/2
Anti-Chlorine	1 1/2	1 1/2
Bleaching Powder, currency	1 1/2	1 1/2
Caustic Soda, gold	3 1/2	4 1/2
China Clay, English, 7/100, gold	18.00	21.00
China Clay "Star", 7/100, currency	15.00	16.50
China Clay, American, 7/100, cury	10.00	14.00
South Carolina Clay, 7/100	10.00	13.00
Terra Alba, English, 7/100, best white 20.00	—	—
Terra Alba, English, E. W. Brand, 7/100 22.50	—	—
Terra Alba, American, 7/100	10.00	12.00
Frass of Potash, yellow	1 1/2	1 1/2
Bichrome of Potash, currency	1 1/2	1 1/2
Coppers, American, prime	8	10 1/2
Extract Logwood	10	—
Orange Minerals, gold	2.00	2.25
Rosin, good strained	2.25	2.40
Rosin, No. 2	2.50	2.50
Rosin, No. 1	4.00	5.00
Salt Soda, cury	1 1/2	1 1/2
Soda Ash, caustic, for 48 cent. gold	1.60	1 1/2
Soda Ash, carb. gold	1 1/2	1 1/2
Soda Ash, refined, for 48 cent. gold	2	2 1/2
Spanish Brown	3 1/2	3 1/2
Sugar of Lead, white	10	11 1/2
Sugar of Lead, brown	7 1/2	8
Sulphuric Acid	2 1/2	3
Ultramarine Blue, gold	2	2
Venetian Red, American	1 1/2	1 1/2
Venetian Red, English	1 1/2	1 1/2
Blue Vitriol	7 1/2	7 1/2
Yellow Ochre, American	4 1/2	4 1/2
Yellow Ochre, French gold	2	4 1/2

CINCINNATI MARKET.

City No. 1 Whites	4 1/2	5
Mill Assorted Whites	4 1/2	5
White Cotton Canvas	3 1/2	3 1/2
No. 1	3 1/2	3 1/2
Linon Canvas	4 1/2	4 1/2
White Shirt Cuttings	3 1/2	3 1/2
Country Whites, No. 1	4 1/2	4 1/2
Country Whites, No. 2	4	4 1/2
Country Blue Rags	3 1/2	3 1/2
Country Mixed Cotton	3 1/2	3 1/2
Rags	3 1/2	3 1/2
City Mixed Cotton	3 1/2	3 1/2
Rags	3 1/2	3 1/2
Shoe Cuttings, new	3 1/2	3 1/2
Colored Cotton Rags	3 1/2	3 1/2
Manilla Rope	3 1/2	3 1/2
Hemp Rope	3 1/2	3 1/2
Gunny Bagging	3 1/2	3 1/2
Hard Woollens	3 1/2	3 1/2
Hard Woollens, new	3 1/2	3 1/2
Soft Woollens (Mill)	3 1/2	3 1/2

CHICAGO MARKET.

City Whites, No. 1	4 1/2	5
Seconds & Blues	3 1/2	3 1/2
Print Rags No. 1	3 1/2	3 1/2
Manilla Rope	3 1/2	3 1/2
Gunny Bagging	3 1/2	3 1/2
Hard Woollens	3 1/2	3 1/2
Soft Woollens	3 1/2	3 1/2
Hard Woollens, new	3 1/2	3 1/2
Wrapping Wine	3 1/2	3 1/2
ew Clips (free from sat)	1 1/2	1 1/2

FOREIGN MARKETS.

London Market Report.

LONDON, June 7, 1878.

This week is as usual rather quiet. People think of nothing but holidays and races, such as the Derby and Oaks. For parcels which did change hands full prices were paid. It is almost impossible to give a report this week.

The French Market.

PARIS, June 4, 1878.

PAPER AND PAPER STOCK.—Rags are still difficult of sale, and only the same kinds as mentioned in last report are in any demand, such as phormiums and hard rags, &c., which are used with succedanea. The latter are every day gaining ground, and some mills are turning out very fine papers in which only 20 per cent. of rags is employed. This fact will give some idea of the extent to which the rag trade is threatened.

WOOLEN RAGS.—The sale of these rags is still very limited. There is more going in the mills, but purchases are made with extreme caution. An improvement is, however, confidently looked forward to as soon as the political situation is definitely settled.

Advertisements.

A PRACTICAL FOREMAN WHO IS FULLY competent to manage a mill successfully and economically, or to superintend building and fitting up, is prepared to make an engagement for a long or short time, on very reasonable terms. Address RESPONSIBILITY, care this paper.

FOR SALE.—LORETTE PAPER MILL. Situated about nine miles from Quebec City, on the St. Charles River, containing one new Fourdrinier and one Cylinder Machine, both 64 inch; ten Rag Engines, four Iron Stationary Vomiting Rag Boilers, one Rotary Boiler, two Tubular Steam Boilers, Steam Engine and all machinery necessary for a large turnout. The mill is driven by two Lefel Turbine Water Wheels, with ample water power. To a practical man with some capital this presents a good opportunity, as arrangements can be made with the owners for a large portion of the turnout. Address J. & W. REID, Quebec, Canada.

FOR SALE.—PAPER MACHINERY. Three 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.

PAPER MILL FOR SALE OR LEASE. SITUATED in the town of Griswold, Conn., known as the "GRISWOLD PAPER MILL." For further particulars inquire of H. H. OSGOOD, Norwich, Conn.

POWER PUMPS FOR PAPER MANUFACTURERS, Tanners, Quarries, Brewers, Starch, Soap, Cotton and Woolen Manufactories. Also, SPECIAL FIRE PUMPS for Factories and Villages. Send for Illustrated Catalogue and Price List. H. M. WISWALL, Manufacturer, 80 Water Street, Boston, Mass.

DOMESTIC REFRIGERATOR AND PIPE COVERING CO., NO. 430 WALNUT STREET, PHILADELPHIA, June 12, 1878. From this date all orders for the STANDARD PIPE COVERING will be addressed to GEO. H. LEVIS. C. F. THOMAS, President.

Paper manufacturers desiring covering for their boilers, cylinders, steam-pipes or heaters, address as above, 430 Walnut street, Philadelphia, until July 1. After that to factory, 218 Pear street, Philadelphia.

ARE YOUR MILLS Fully Insured In SOUND Companies?

A prominent paper-maker writes: "As stated before, we want to get out of the hands of our local agents, who omit no opportunity to make us feel that we are paper manufacturers, and that paper mills are burning up at the rate of one a minute."

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

We can Save you Money.

Blank surveys sent by mail upon application. ADDRESS,

ANDERSON & STANTON Insurance Brokers. 152 BROADWAY. NATRONA POROUS ALUM,

FOR PAPER MAKERS' USE. FREE FROM IRON AND FROM EXCESS OF ACID. Two pounds of it will size as much paper as three pounds of Potash or Ammonia Alum.

Pennsylvania Salt Mfg. Co. 140 South Delaware Ave., Philadelphia. 212 Washington Ave., St. Louis, Mo.

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

AMERICAN ULTRAMARINE WORKS, 55 MAIDEN LANE, NEW YORK. Paper Ultramarine a Specialty.

OWEN WARD, Dealer in Cotton & Woolen Rags, And all sorts of Paper Makers' Materials. Warehouse, No. 448 and 450 West 35th St., New York, Between 34th and 10th avenues.

PROPOSALS FOR STAMPED ENVELOPES AND NEWSPAPER WRAPPERS. POST OFFICE DEPARTMENT. WASHINGTON, D. C., June 1, 1878. Sealed proposals will be received from envelope manufacturers until 12 o'clock M., on Tuesday the 23 day of July, 1878, for furnishing all the "Stamped Envelopes" and "Newspaper Wrappers" which this Department may require for public and official use during a period of four (4) years commencing on the 1st day of October, 1878. Specimens of the envelopes and wrappers for which proposals are invited, showing the different qualities and colors of paper required, the cuts, and style of gumming, with blank forms of bids, and specifications giving full information may be had on application to the Third Assistant Postmaster General, Washington, D. C. D. M. KEY, Postmaster General.

VALUABLE WATER POWER, MILLS, HOUSES AND LOTS FOR SALE. The property known as the J. P. & E. A. Black Mill property is for sale at a bargain. This property consists of the entire water power on Fox River, at Yorkville, Kendall Co., Illinois, 50 miles southwest from Chicago, on the C. & Q. RR. Also, ONE PAPER MILL, Flouring Mill, Saw Mill, all in good running order. Also, Houses and Lots adjoining the same. The property will be sold together or in lots to suit purchasers. For terms of sale, or further description of the property, inquire of E. A. Black, or H. S. Hudson, Yorkville, Ill. E. A. BLACK. LOUISA BLACK, Executrix.

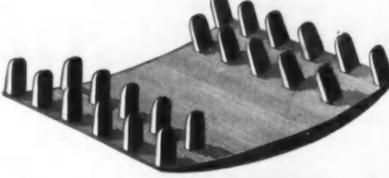
Paper Machinery Wanted. ONE FOURDRINIER MACHINE, 62 to 72 inches. ONE DOUBLE CYLINDER DO. 1 inches. Must be in perfect order. Address with particulars and price, J. G. W., Box 19, Yonkers, N. Y.

CONLEY'S Mill and Machinery Agency. FOR THE PURCHASE, SALE, OR EXCHANGE OF PAPER, COTTON, WOOL- EN, GRIST AND OTHER MILLS ALSO, MACHINERY, MILL SITES AND PRIVILEGES. Estimates given for New Machinery at very much lower prices than can be obtained elsewhere.

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 undersigned, who offers for sale a large line of Paper-Making Machinery and Mills, including the following: One 62-in. Fourdrinier Machine. One 36-in., one 42-in., one 48-in., and one 62-in. Cylinder Machines. One 62-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. Four Copper Dryers, 28 x 54. 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 x 50 platen, 8 in. piston, 6 1/2 feet opening; two 36 x 48 platen, 10 in. piston, 6 to 10 feet opening. Six Chilled Calender Rolls, 12 in. diameter, 28 in. long on face. 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 62-in. Knead 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 x 16 in. One Rag Cutter, two Rope Cutters, one Wood Chopping Machine. One 300 H. P., two-cylinder Engine, cylinders 22 x 28, prime order; one 50 H. P. Engine, cylinder 14 x 30, Chubbuck's pat. packing; four two-flue Boilers, 34 and 25 feet long; five 45 H. P., Tubular Boilers; one 40 H. P. Green Engine, cylinder, 12 x 36; 35 H. P. J. M. Foote & Co. Engine, cylinder, 12 x 18; three Baxter Engines—10 H. P., 8 H. P., and 4 H. P.; one 3 H. P. Roper Caloric Engine. One Water's Feed-water Heater will supply a 55 H. P. Boiler. 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); one 4-in. and one 12-in. Propeller Pumps; No. 2 Perry Centrifugal Pump; one No. 3 Holly Pump. One Rice, Barton & Fales Centrifugal Pump, 3-in. pipe, for raising pulp. A Brass Stuff Pump, plunger 4 x 10 inches. Four Sturtevant Blowers. One large Steam Pump (G. H. Dean & Co.); one 5 in. (Watson) Brass Pump for Artesian well, with 275 feet of rubber-lined pipe and all fixtures; cost, \$3,700; is nearly new, and will be sold cheap. One No. 4 Blake Boiler Feed Pump. Two Devil Dusters. One Rag Thrasher. Two 48-in., one 54-in., one 62-in. and one 84-in. Paper Cutters; one 62-in. Hatch Cutter; one 62 in. Strip Cutter, built by Smith & Winchester. One Patent Patent. One Kingsland Engine, in good condition. One Standing Press, with gun-metal screw plate 34 in. by 48 in.; one Screw Paper Press, screw 8 feet long, follower, 31 x 60; one Screw Paper Press, screw 7 feet long, follower 31 x 60. Two Cutting Presses, from 27 in. to 45 in. wide. One Holyoke Trimming Press. Four Making Cylinders—one, 30 x 62; one, 25 x 56; one, 28 x 32; and one, 30 x 24, nearly new. One 20 in. Case Water Wheels; nearly new. Ten Water Wheels, different sizes. Two Snow's Water-Wheel Governors. Two Hartford Governors; nearly new. One 40-in. Lefel 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.; 20, forty Wooden Spools, in. by 28 in. One set of three Reels, 62-in. face; one set of six Revolving Reels, 76-in. face; one Sizer for a 62-in. machine; one Size Washer, and four Rotary Rag Rollers, 5x16 feet. Two Beating Engines, 44 x 48 rolls, with stands, lighters, pulleys, washers and hoops for tub. One Rotary Boiler, 6 1/2 feet by 24 feet. One set of Artesian Well Tools. One No. 8 Armstrong Heater. One "Lift" or Elevator Wheel for Cylinder Machine, 48 in. diameter, 17 in. wide, new and complete. About 7,000 Spruce and Pine Loft Poles, 700 of them 10 feet long, the remainder 12 feet 4 in. long. One W. O. Hickok's Pennsylvania Ruling Machine. Three sets of Board Pliers. One Hoisting Screw, 15 feet long, 4 inches diameter, with spur-wheel and false bottom plate; all complete. Cost \$70, and is entirely new. One Copper Coil, 70 feet 1 1/2-in. pipe. Five Wrought Iron Tanks, 9 feet diameter, 8 feet high, one-eighth iron; good condition. Copper Kettle, 425 gallons, 4 feet diameter, 4 1/2 feet high; good as new. One full set Paper Collar Machinery; capacity 50,000 to 100,000 collars per day. Two Morris and one Copeland Power Elevators; capacities, 3,000, 2,000 and 1,000 pounds respectively.

EDWARD CONLEY, 5 BEEKMAN ST., N. Y., Room 8.

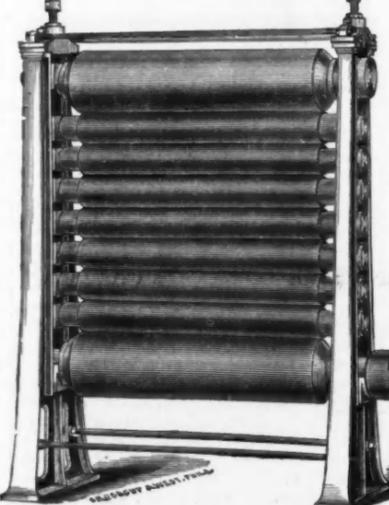
BELT HOOKS. The Best Metallic Belt Hook in the Market for LEATHER OR RUBBER BELTS. These Hooks have been thoroughly tried for eight years in all places—in Machine Shops, Cotton, Woolen and Paper Mills and all who use them admit that they are the best and cheapest fastening in use, taking into account the durability of the Hook, wear and tear, and time in mending belts.



Address **WALTER O. TALCOTT,** Successor to GREENLEAF WILSON, Box 630, Providence, R. I.

LOBDELL CAR WHEEL COMPANY, WILMINGTON, DEL. The Oldest and Most Extensive Manufacturers of Chilled Car Wheels in this or any other Country.

EXTRACT OF AWARD ON CHILLED ROLLS. The undersigned having examined the product herein described respectfully recommends the same to the United States Centennial Commission for award, for the following reasons, viz: This exhibit contains a stack of calendering rolls intended to be part of a complete paper machine. These rolls are of cast-iron, chilled at the surface in casting, and thereby made hard, like tempered steel. They are separately ground according to a highly improved plan, and are so true that, when placed together, they bear upon each other through out their entire length. This exhibit has the exceptional merit that the rolls are not only GROUND true but CAST by the exhibitor. (Signed) JAMES M. WILCOX, Signature of the Judge.

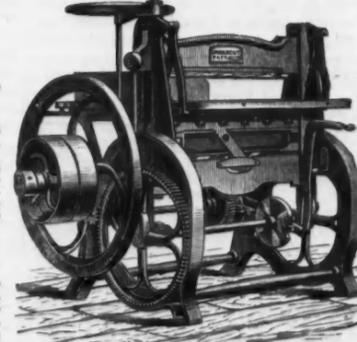


ALSO MANUFACTURERS OF CHILLED ROLLS For Paper Machines, Rubber, Brass, Copper, Rolling Mills, &c. The vast quantity of iron used daily in the business of this establishment permits the very best selection for the composition of CHILLED ROLLS. The long experience of Mr. Geo. G. Lobdell in making chilled castings, and who personally directs the selection, enables them to make CHILLED ROLLS UNEQUALLED IN QUALITY AND GROUND AS PERFECTLY AS ANY OTHERS. GEO. G. LOBDELL, Pres. W. W. LOBDELL, Sec. P. N. BRENNAN, Treas.

ESTABLISHED 1820. LEWIS & BRYMOND. 232 & 234 CARTER ST. PHILADELPHIA. PAPER MAKERS' SUPPLIES. MINERAL ATTRITION MILLS—AGALITE FILLER, STAR CHINA CLAY. PATENT ALUMINOUS CAKE. CRESCENT FELTS. SOLE AGENTS FOR

"THE UNDER-CUT" Paper Cutter. Made by CRANSTON & CO., 50 and 61 THIRD ST., BROOKLYN, N. Y.

This machine is Self Clamping and claims great superiority over any machine in market for speed, accuracy and general economy in working. A reference to the letters of recommendation will show how far our claims are supported by the performance of the machine. Parties wishing a machine for any of the many varieties of paper cutting will consult their own interest by investigating our machine before purchasing. CRANSTON & CO. HADLEY FALLS, MASS., July 13, 1877. Messrs. Cranston & Co.: GENTLEMEN—Having had in use your Self-Clamping Under-cut Paper Cutter for several weeks, we take pleasure in pronouncing it the best cutter we ever saw; &c., for the adaptation to the various work required in a writing paper mill, viz: For accuracy, it cannot be excelled; for dispatch, it has not its superior; for power, it exceeds our most sanguine expectations; all of which is most respectfully submitted by Yours truly, HAMPSHIRE PAPER CO., J. H. SOUTHWORTH, Pres't. LOUISVILLE, KY., April 16, 1878. Messrs. Cranston & Co.: GENTLEMEN—We have tested the 48-inch Cutter you sold us in every imaginable way without being able to find a particle of fault with it. It is everything you claim for it, rapid, strongly built, not easily gotten out of order, cuts cardboard or paper equally well, and produces a shaving smaller than any cutter in the market. We are enthusiastic in its praise, and all who have witnessed its operation join us in saying that the Under-cut cannot be excelled. JAMES L. RUBEK, Secretary, Breemaker Moore Paper Co. We also refer to Franklin, Valley, Albion and Whiting Paper Companies, Holyoke, and also to Hurlbut Paper Co., South Lee, Mass., and to Messrs. Sheffield & Son, Saugerties, N. Y.—CRANSTON & CO. We also make Hand Power Machines. Send for Circular.



HOLYOKE, MASS., Dec. 31, 1877. Messrs. Cranston & Co.: GENTLEMEN—We are pleased to say of your trimming press, after a trial of several months, that it meets our most sanguine expectations in all respects. It does accurate and rapid work and charms every one who sees it. We feel that we could not do without it, and are willing to recommend and show it to any one interested. Respectfully, J. H. APPLETON, Pres't. RIVERSIDE PAPER CO. HOLYOKE, MASS., Feb. 1, 1878. Messrs. Cranston & Co.: GENTLEMEN—It gives me pleasure to say that your Under-cut Paper Cutting Machine, which we have had in use over two months, works to our entire satisfaction. Yours truly, H. DICKINSON, Agent, Union Paper Manufacturing Co.

JAMES M. FITZGERALD & CO., Dealers in Manila, Wrapping and Tissue Papers, Binders' Boards, Twine, Burlaps, &c. ALSO PACKERS AND DEALERS IN PAPER STOCK, 137 South Fifth Avenue, New York. GEORGE HARLEY, Importer of California Rags, And Dealer in WOOLEN and COTTON RAGS, and all kinds of PAPER STOCK. 362, 365 & 367 THIRD STREET, Between Avenue D and Lewis St., NEW YORK.

J. HENRY BLANCHARD,
Chemical Broker,
No. 36 BATTERYMARCH ST.
BOSTON, MASS. P. O. Box 811.

Soda Ash, Bleaching Powders,
Sal Soda, Hyposulphite of Soda,
Caustic Soda, Alum, Clay, Rosin, &c.

AGENT FOR
McNAMEE'S "Excelsior" South Carolina
Clay, & L. Patent Aluminous
Cake, and "Crescent Felts."
AND FOR THE
ANDROSCOGGIN PULP COMPANY,
Manufacturers of **WOOD PULP.**

**PIQUA
FELTS.**

Paper Makers'
FOURDRINIER FELTS.
Coarse and Fine
CYLINDER WET FELTS.
Press Felts and Jacketing.

F. GRAY & CO.,
Successors to F. GRAY, O'FERRALL & CO.,
PIQUA, OHIO.

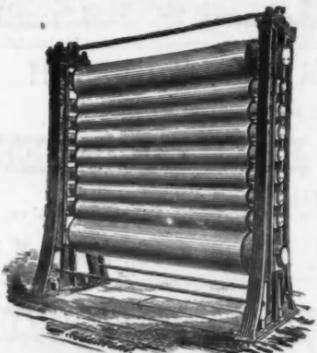
We warrant every Felt to work well, and if
it does not, it can be returned.

SATISFACTION GUARANTEED.
In ordering Felts, give kind of Stock used,
and quality of Paper made.

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

To the Editor of *The Journal*:
Much has been said in former numbers of *THE
JOURNAL* about the running and durability of cylinder
long felts. GRAY, O'FERRALL & Co. are supplying
the best cylinder long felt I have ever had any ex-
perience with for wide machines. I think they de-
cidedly excel. They keep their width under a reason-
able strain, and when kept clean never trouble with
wind marks, never get slack in the middle or edges;
in fact, they make paper, with ordinary care, until
they are entirely worn out, and it would be well for
any one who is troubled with an unsatisfactory work-
ing felt of any other make, to try one, and by all
means to do so if there is a necessity for fast running.
J. W. B.

IRA L. BEEBE,
NEW YORK AGENT.



J. MORTON POOLE & CO.,
Wilmington, Delaware,
MANUFACTURE

Chilled Rolls
GROUND BY THEIR PATENT PROCESS.

**EMPIRE
FELTS.**

Cylinder and Fourdrinier
WET FELTS, PRESS FELTS,
AND
JACKETS.

MANUFACTURED BY
H. WATERBURY & CO.,
RENSSELLAERVILLE,
Albany County, N. Y.

In ordering Felts, give kind of Stock used and
quality of paper made, and we warrant Felts that
will please.

ORDERS PROMPTLY FILLED.
OUR PRICES ARE IN CURRENCY.

Will send Price List upon Application.
All Felts sent out by us warranted to work well; if
not, may be returned.

GERMANIA ULTRAMARINE WORKS,
WHITESTONE, L. I.,

W. HOFFMANN & CO., Proprietors,
Office, 74 PINE STREET, NEW YORK.

Manufacture High Grade Ultramarines for manufacturing purposes only.
We specially call the attention of the trade to our Superior Alum Proof Ultramarine,
which is greatly stronger than any other produced. Samples and Prices sent on application.

GEO. M. RICE, Treas. GEO. S. BARTON, Pres. JOS. E. FALES, Manager.

Rice, Barton & Fales Machine and Iron Co.

AT OLD STAND OF RICE, BARTON & CO.,
WORCESTER, MASS.,
MANUFACTURERS OF

PAPER MACHINERY

OF EVERY DESIRABLE VARIETY,
Iron and Brass Castings, Chilled Iron and Paper Calender Rolls, Rag Engines,
Rag Cutters, Steam Pressure Regulators, &c.
HYDRAULIC PRESSES, FROM 5 to 14 INCH PISTON.

*Oldest Established Fourdrinier Wire Manu-
factory in America.*

DE WITT WIRE CLOTH COMPANY,

FACTORY, BELLEVILLE, NEW JERSEY.
WAREHOUSES, - - - - - { 90 JOHN STREET, NEW YORK.
703 MARKET STREET, PHILADELPHIA.
6 CALIFORNIA ST., SAN FRANCISCO.

Fourdrinier Wire Cloth, extra heavy and durable. Cylinder Covers, cut from
Fourdrinier Cloth. Extra Heavy Canvas Dryers at reduced prices.
Rag Dusters and all other Wire Cloths for Paper Mill use.
Dandy Rolls, Plain and Fancy Designs.

SEND FOR SAMPLES AND PRICES.

Standard Wire Works.

EASTWOOD, BUCHANAN & SMITH,
BELLEVILLE, N. J.,

Manufacturers of Fourdrinier Wires with Patent Safety Edge.
WIRE CLOTH OF EVERY DESCRIPTION.

Cylinder and Dandy Rolls made and repaired, Lettering and Designing on Dandies done
neatly and promptly, Cylinder Backs, Faces and Washer Wires made from
stock especially adapted for Paper-Makers' purposes.

Felts, Jacketing and Extra Heavy Canvas Dryers at reduced rates.

"CAUTION."

The undersigned hereby notify all Fourdrinier Wire Manufacturers and Paper Manufacturers that they
patented on October 2, 1877, a Patent Safety Edge for Fourdrinier Wires, and any party or parties manufac-
turing or having in use a wire, with such Patent Safety Edge, unless manufactured by us, or by our license,
will be held responsible for damages sustained. **EASTWOOD, BUCHANAN & SMITH.**

MEGARGEE BROS.,

PAPER MANUFACTURERS,

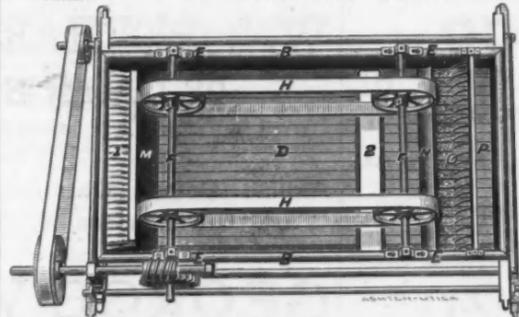
20 South Sixth St., and 11 Decatur St., Philadelphia,

Have constantly on hand a full assortment of the following Papers of regular sizes and weights
of their own manufacture, viz.:

**SIZED AND SUPER-CALENDERED PLATE, BOOK, WRITING, MAP, ENVELOPE,
COLORED, GRANITE, TINTED, NEWS, MANILLA AND WRAPPING
PAPERS, BINDERS' BOARDS, ETC.,**

Samples of which will be furnished on application and orders filled with care and promptness.

HOLLINGSWORTH'S **PULP SCREEN CLEANER** For Cleaning Paper or Wood
Pulp Machine Screens.



The following are some of
its merits: 1. It is not neces-
sary for the Screen to knock
more than about half as hard
as by the old method to let
the same amount of stuff
through. 2. It makes the pa-
per cleaner, as the Screen
Plates are kept constantly
clean by the application of
the Improved Cleaner, which
cannot be done so efficiently
by hand. 3. It removes all
knots and dirt, and prevents
to a great extent the forma-
tion of strings under the
Screen Plates, hence it obvi-
ates the necessity of washing
up so often. 4. It makes the
paper more uniform in thick-
ness as the supply of pulp is
more regular than it would
otherwise be. 5. It prevents
blue spots, &c. 6. Longer
stuff can be worked, and finer
stuff can be cleaned. 7. It
may be used with
great advantage for either rag, straw or wood pulp, and a great saving is effected by its use.

REFERENCES:

Rochester Paper Co., Rochester, N. Y. (3 machines.)
Smith Paper Co., Lee, Mass. (7 machines.)
Taggart & Davis, Watertown, N. Y. (2 machines.)
Kalamazoo Paper Co., Kalamazoo, Mich. (2 machines.)
Glen's Falls Paper Co., Glen's Falls, N. Y. (2 machines.)
Orr's Paper Co., Troy, N. Y. (2 machines.)
North Western Paper Co., Beloit, Wis.
Jones & Settle Paper Co., Ballston, N. Y.

Palmer's Falls Paper Co., Palmer's Falls, N. Y.
Allen Brothers, Sandy Hill, N. Y.
Ogdensburg Paper Co., Ogdensburg, N. Y.
Skaneateles Paper Co., Skaneateles, N. Y.
Week's Paper Co., Skaneateles, N. Y.
Woodruff Paper Co., Dansville, N. Y.
And others too numerous to mention.

Address,

EDWARD CONLEY, 5 Beekman Street, New York.

RIVERSIDE PAPER MILLS.

Office, 710 Sanson St., Philadelphia.

W. C. HAMILTON & SON

Plate, Fine Book, and Map Papers,
AND HAVE CONSTANTLY IN STOCK

COLORED GLAZED MEDIUMS.

THIRTEEN SHADES EACH WEIGHT.

FITZGIBBONS, MESSER & CO.,

Agents for Manufacturers of
Straw Boards and Lining Papers.

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

65 & 67 Crosby st., New York.

J. G. MACKINTOSH & CO.,

Bankers,

HOLYOKE, MASS.

Dealers in **FIRST-CLASS COMMERCIAL PAPER.**

Notes of Paper Manufacturers a Specialty.

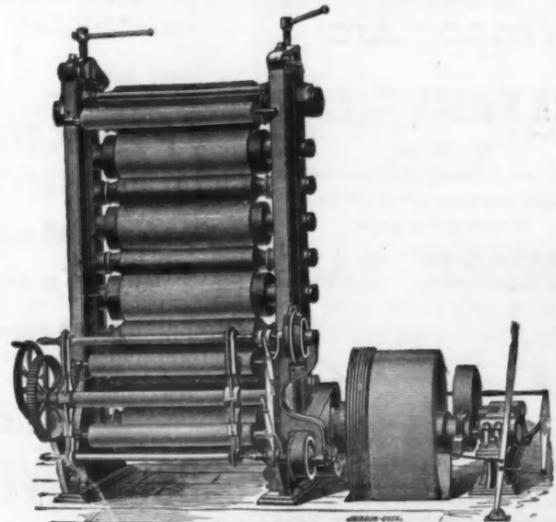
Purchases remitted for in New York or Boston Funds

Correspondence Solicited.

HOLYOKE MACHINE CO.,
Holyoke, Mass.,

MANUFACTURERS OF

IMPROVED PAPER MACHINERY



Patent Web Super-Calender.

HIGHEST AWARD AT CENTENNIAL EXHIBITION

Our Improved Web Super-Calender is a very complete Machine, heavy and substantial in all its parts,
with our new patented feeding apparatus, which increases the capacity of the Calender, and effects a saving
in broken paper. The shipping arrangement is complete, ready to set up and operate.
The paper rolls are made of the best paper, made expressly for the purpose.

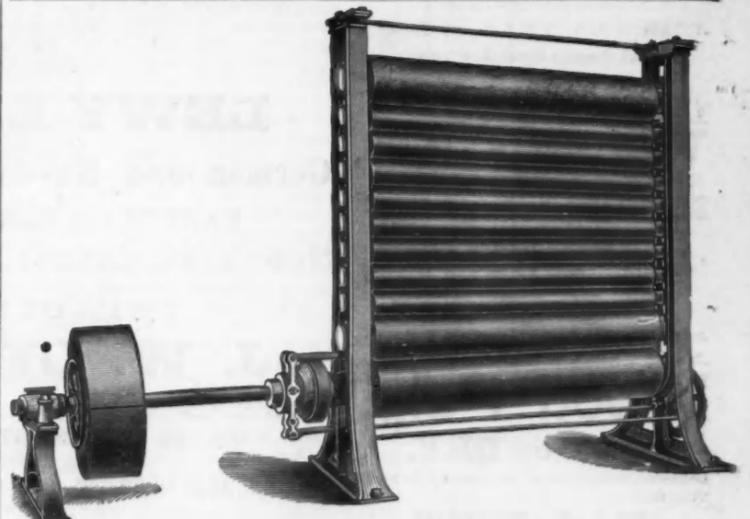
Chilled Iron and Paper Calender Rolls, Web and Sheet Calenders, Friction
Calenders, Machine Calenders, Platers, Rag Engines, Gould's Patent
Rag Engines, Hydraulic Presses (5-in. to 18-in.) Piston, Eleva-
tors, Rag-Dusters, Thrashers, Trimming Presses, Ham-
mond's Patent Stop-Cutter, Ruling Machines with
Layboys, Littlefield Power Pumps, Vertical
Power Pumps, Bed-Plates & Roll Bars &c.

ALSO, MANUFACTURERS OF THE

Boyden, Risdon, and American Turbine Water Wheels.

Improved Apparatus for Driving Fire-Pumps, Friction Pulleys and
Couplings, Shafting, Gearing, and Mill Work of Every
Description, Bleach Boilers, Keirs, &c.

ILLUSTRATED CATALOGUE SENT FREE ON APPLICATION.



The undersigned, builders of **PAPER MACHINERY**, offer their services to Manufacturers
of Paper, soliciting orders for all **MACHINERY REQUIRED IN PAPER MILLS.**

Having unsurpassed facilities for producing Machinery in short time, and with patterns
and drawings of the best in use, they offer their customers advantages not usually found.

Specially they ask attention to their **ROTARY BOILERS**, the journals of which are turned
AFTER the heads have been riveted in, thus insuring parallelism of the bearings, a very
important matter.

Also to their **CHILLED IRON CALENDER ROLLS**, which they guarantee to be **ABSOLUTELY PERFECT**, both as to hardness and excellence of finish. Address

PUSEY, JONES & CO.,
WILMINGTON, DELAWARE.

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

Wholesale Paper and Rag Warehouse,

30, 32 and 34 South Sixth Street, Philadelphia, corner of Jayne St.

LARGEST STOCK AND GREATEST ASSORTMENT IN THE COUNTRY.

THE SIBLEY MACHINE CO.,

NORWICH, CONN.,

Manufacturers of Modern Improved Paper Machinery,

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

Castings at Short Notice.

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

RUFUS SIBLEY, Agent.

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

W. H. PARSONS & CO.,

74 DUANE STREET, NEW YORK,

COMMISSION PAPER MERCHANTS

AND

Importers

OF

PAPER MAKERS' SUPPLIES.French and English Linen and Cotton
Rags, and Papers of all grades,
on hand and to arrive.**LEGHORN RAGS,**

OF THE WELL-KNOWN BRAND



and

FOR SALE, ON HAND, AND TO ARRIVE, BY
J. FABBRICOTTI,
No. 34 Beaver Street, New York.
P. O. BOX 4354.**LEE & STURGES,****COMMISSION MERCHANTS,**

23 Beekman Street,

P. O. Box 2,867 NEW YORK

FOREIGN RAGS AND PAPERS.SOLE AGENTS FOR THE CELEBRATED
BRANDSP of Messrs. John Pfeffer & Co.,
France and Belgium.**KEENAN LIME CO.,**

Manufacturers of

Paper Makers' Lime.PROVEN BY CHEMICAL ANALYSIS TO BE
THE BEST LIME MADE FOR
BLEACHING PURPOSES.**J. R. VAN VALEN, Agent,**
214 Franklin Street, New York.Paper Makers' Reference if required. All Orders
promptly attended to.**WING & EVANS,**

DEALERS IN

Soda Ash, Caustic Soda,
Sal Soda, Bi-Carb. Soda,
and Bleaching Powder,

92 WILLIAM STREET, N. Y.

Agents for Newcastle Chemical Works Co.,
Limited, Newcastle-on-Tyne, England.**Wood Pulp,
WET or DRY,**Delivered in any part of the country, in quantities
to suit.**IRA L. BEEBE,**

60 Duane Cor. Elm St., N. Y.

SUPERIOR QUALITY

Wood Pulp.

For price and samples address,

J. HENRY BLANCHARD,
Boston, Mass.**JOSEPH LIBMANN,**

SUCCESSOR TO

LIBMANN & KORNBLUM,

No. 3 Howard Street,
WHOLESALE DEALER IN**PAPER AND PAPER-MAKERS' STOCK,**

New Linen and Cotton Rag Specialties.

Fisher of the well-known Brand of strictly A1 Shirt
Cuttings.**SERGEANT BROS.,**

78 William St., New York, P. O. Box 3912.

HAVE ALWAYS ON HAND AND TO ARRIVE

**FOREIGN RAGS,
JUTE AND PAPER STOCK,
CHEMICALS, CLAYS,
ANIMAL AND ROSIN SIZE.**

ALSO AGENTS FOR

The Swan Brand Slesian White and
H. & S. Brands Southern Clays.**H. C. HULBERT & CO.,**

13 Beekman St., N. Y.

IMPORTERS AND DEALERS IN

Paper Makers' Supplies.

SOLE AGENTS DURING THE LAST FOURTEEN YEARS FOR THE SALE OF

*Stubbins Vale Mills Feltings, Pearl Hardening,
& Berger Ultramarine.**Manilla Sizing, Extra Heavy Canvas Dryers.***PERKINS & GOODWIN,
COMMISSION PAPER WAREHOUSE.**

IMPORTERS AND DEALERS IN

Paper Manufacturers' Supplies.

SOLE EASTERN AGENTS FOR

SHULER & BENNINGHOFEN, OF HAMILTON, OHIO,

THE WELL-KNOWN MANUFACTURERS OF

FOURDRINIER AND CYLINDER WET FELTS, PRESS FELTS AND JACKETS.

Pronounced by many equal to the best foreign felts, at a much lower price.

Extra Heavy Canvas Dryers.

84 DUANE STREET, NEW YORK.

HUDSON RIVER PULP AND PAPER CO.,

MANUFACTURERS OF

News, Colored and Manilla Papers,
Hanging and Card Middles.**ALSO REFINED SPRUCE AND POPLAR WOOD PULP,**

Suitable for Book, News and Manilla Papers.

MILLS AT PALMER'S FALLS, N. Y. NEW YORK OFFICE,
45 BEAVER STREET.**BEEBE & O'CONNELL,
Commission Paper Warehouse,**

DEALERS IN ALL KINDS OF

PAPER MAKERS' MATERIALS,Cotton Waste, Jute, Hemp and Flax Waste, Papers, Rags,
Hemp and Gunny Bagging, Jute Butts, &c.**DOMESTIC STOCK A SPECIALTY.**

78 DUANE STREET, N. Y.

ESTABLISHED 1826.

LEWY BROTHERS,

German and Russian Linen Rag Packers.

BERLIN and KOENIGSBERG, Germany.

New York Office: No. 12 BROADWAY.

ESTABLISHED 1853.

**J. W. LYON & CO.,
RAG WAREHOUSE,**

No. 35 PARK STREET, NEW YORK,

CORNER CENTRE AND DUANE STREETS.

FOREIGN AND DOMESTIC PAPER STOCK AND WOOLEN RAGS OF ALL
DESCRIPTIONS.

Cash paid for all kinds of WOOLEN RAGS and PAPER STOCK in large or small lots.

Ypsilanti Mills, Superior Mills, Ypsilanti.

Ann Arbor Mills, Jackson Mills.

F. P. ELLIOTT & CO.,Manufacturers of **PAPER,** 169 Randolph St.,
and Dealers in CHICAGO.**BUTTERWORTH & SMALLEY**

54 Beekman St., New York; 58 Federal St., Boston, Mass.,

PAPER STOCK AND SIZING MERCHANTS.

DEALERS IN EVERY KIND OF

MATERIAL FOR PAPER MAKERS,Jute, Hemp and Flax Waste, Papers, Rags, Hemp and Gunny
Bagging, Jute Butts, &c.

French Linens, Cottons, &c., always on hand. Sizing prepared at our hide yards, Salford.

HEAD ESTABLISHMENT:

EDWIN BUTTERWORTH & CO.,

52 Ward's Buildings, Deansgate, Manchester, England.

WARREN, BARNES & Co.,

69 DUANE STREET,

COMMISSION PAPER WAREHOUSE,

IMPORTERS AND DEALERS IN

PAPER-MAKERS' SUPPLIES,

Superior English Felts and Jackets, and the Heaviest Canvas Dryers.

Several years' practical experience in Paper-making warrants us in saying that we can fill
Manufacturers' orders in the most satisfactory manner.**BULKLEY, DUNTON & CO.,**

NO. 74 JOHN ST., NEW YORK.

"EXCELSIOR" FELTS.**PIECE FELTING AND JACKETING.**

FOR ECONOMY, DURABILITY AND GOOD RESULTS THEY ARE UNEQUALED.

LONG ESTABLISHED AND WELL KNOWN. A TRIAL IS SOLICITED
FROM MANUFACTURERS NOT ALREADY USING THEM.**EXTRA HEAVY CANVAS DRYERS.**

SATISFACTION GUARANTEED.

SEND FOR PRICE LIST.

WM. CABLE EXCELSIOR WIRE MFG CO.

ESTABLISHED 1848

INCORPORATED 1870.

MANUFACTURE

**Brass, Copper & Iron Wire,****FOURDRINIER & CYLINDER WIRES,**

Making Cylinders & Dandy Rolls,

AND WIRE CLOTH OF EVERY DESCRIPTION.

INNER AND OUTER FACES OF ALL NUMBERS ALWAYS ON HAND.

Medal awarded Wm. CABLE from the Great Exhibition in New York, 1853, for the

finest and best specimens of Composition, Brass and Copper Wire, for
the manufacture of Cloth for Paper-makers' purposes,and is recommended for its strength
and durability.

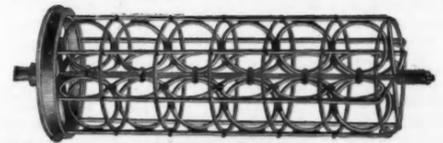
Warehouse: 43 Fulton Street, New York.

SELLERS & CO., Limited,

3919 Powelton Avenue, Philadelphia.

SOLE MANUFACTURERS OF

Whitehead's Patent Dandy Roll.



ALSO MANUFACTURE

FOURDRINIER AND CYLINDER WIRES,

Wire Cloth for Washers, Dusters, &c.

CYLINDERS AND DANDY ROLLS MADE AND REPAIRED.

Lettering and Designing on Dandy Rolls Executed Neatly and Promptly.

IMPORTANT TO PAPER MANUFACTURERS!

We have now running at our works one of

POOLE'S PATENT ROLL GRINDERS,

and are prepared promptly to regrind Old Rolls, soft as well as chilled.

Manufacturers can rely upon having their rolls ground perfectly, and at a material saving of
freight, by applying to**TOWNSEND, JACKSON & CO., Albany, N. Y.****WM. PICKHARDT & KUTTROFF,**

98 Liberty Street, New York.

BRANCHES AT BOSTON AND PHILADELPHIA.

IMPORTERS OF

Aniline Colors, Carmine, Pulp Colors, Eagle Brand
Ultramarines, N. C. F. Concentrated Alum.**GEORGE WATSON, JR.**

(LATE BRAUTIGAM & WATSON.)

IMPORTER OF

Paper-Makers' Stock and Materials,**Whitehead's Feltings,****Pochin's Patent Aluminous Cake,****Curtius' Ultramarine.**

DEALER IN

FOREIGN AND DOMESTIC RAGS.

NOS. 63 AND 65 BEEKMAN STREET.

New-York.