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PAPER TRADE JOURNAL

THE INTERNATIONAL WEEKLY OF THE PAPER AND PULP INDUSTRY.
ESTABLISHED IN 1872

Vol. LXIX. No. 8 NEW YORK AND CHICAGO, AUGUST 21, 1919 Per Annum, \$4.00
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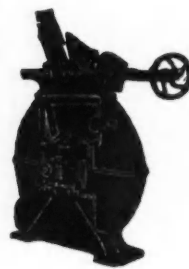


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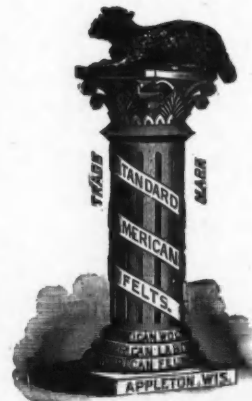
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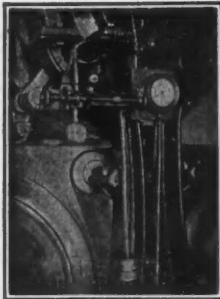


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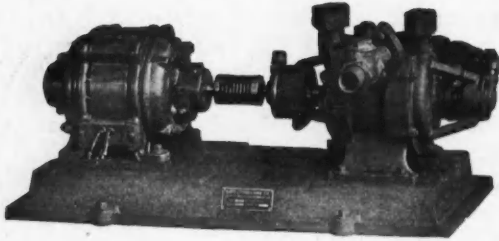
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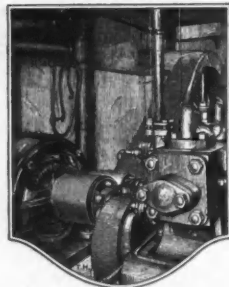


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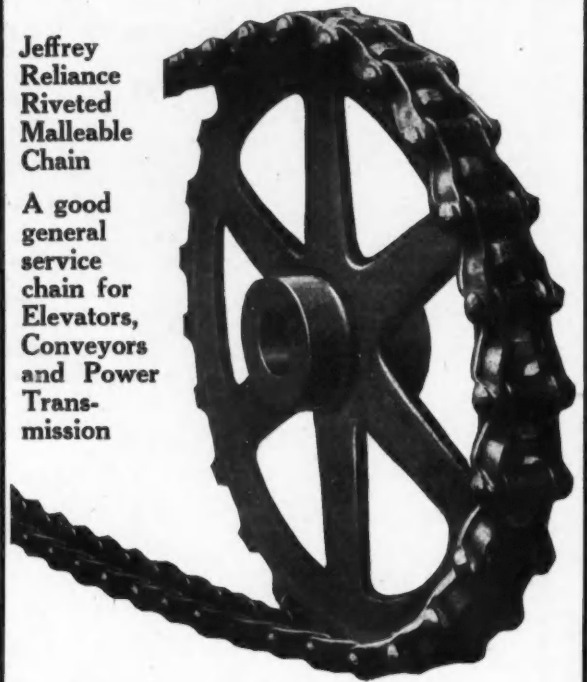
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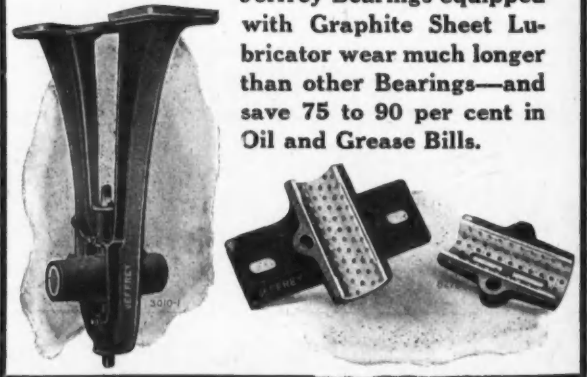
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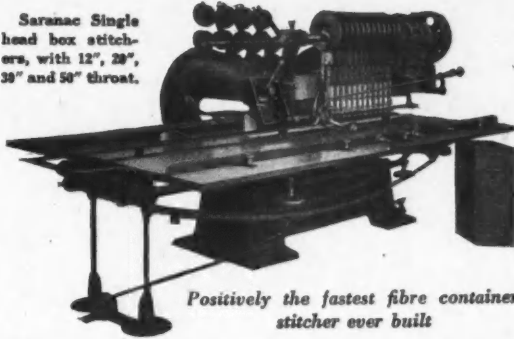
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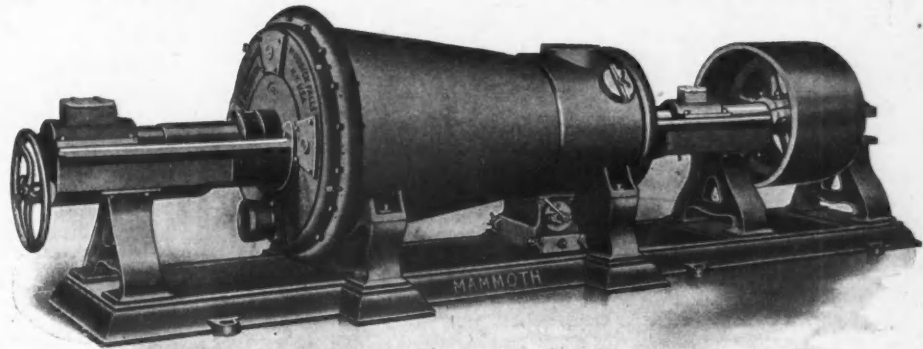
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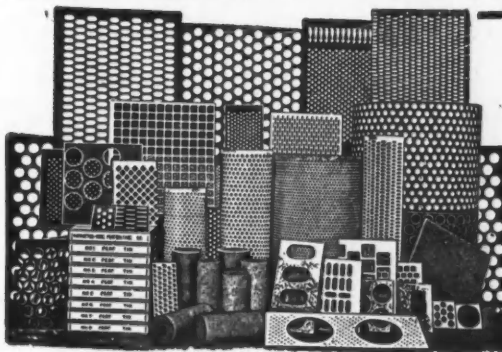
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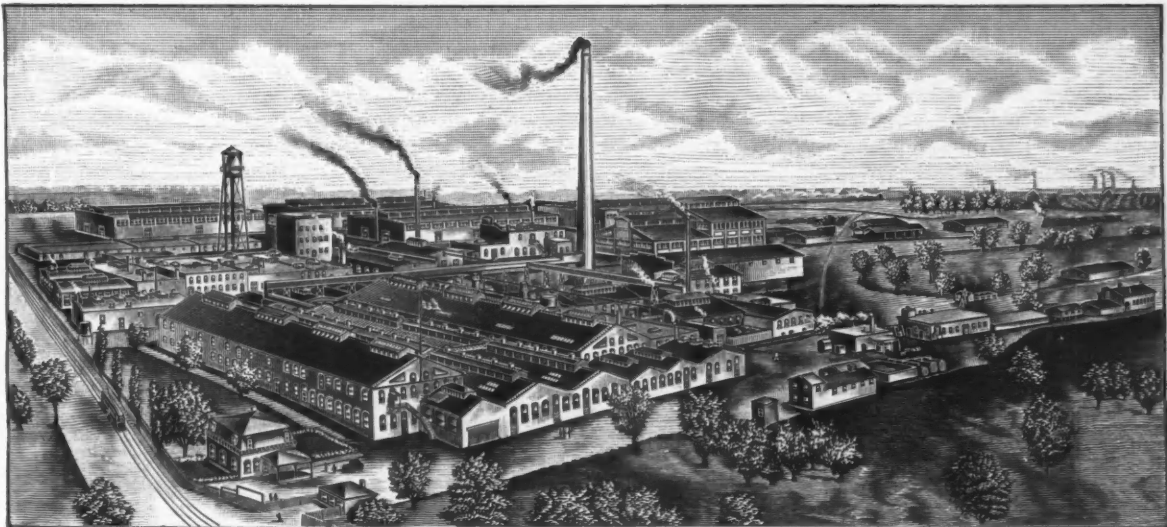
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THE INTERNATIONAL WEEKLY OF THE PAPER AND PULP INDUSTRY

FORTY-EIGHTH YEAR

PUBLISHED EVERY THURSDAY BY THE
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Vol. LXIX. No. 8

NEW YORK AND CHICAGO

Thursday, August 21, 1919

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PULPWOOD CONSUMPTION AND WOOD PULP PRODUCTION, 1918

Forest Service Bureau of the United States Department of Agriculture in Co-operation with the News Print Service Bureau Issues Bulletin Giving Important Statistics for Past Year—Consumption of Pulpwood in 250 Establishments in 1918 Was 5,250,794 Cords, Which Was a Decrease of Four Per Cent. as Compared with 1917—Other Interesting Comparisons Printed in the Bulletin.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., August 19, 1919.—The Forest Service of the United States Department of Agriculture, in co-operation with the News Print Service Bureau, has just issued an important bulletin giving detailed statistics on pulpwood consumption and wood pulp production in the United States during 1918. In part, the bulletin is as follows:

The consumption of pulpwood by 250 establishments in 1918 was 5,250,794 cords. The total includes an estimated utilization of 218,000 cords by one establishment in New Hampshire. The 1918 figures show a decrease in consumption of 4 per cent in comparison with 1917, and an increase of less than 1 per cent over 1916.

Wood pulp production aggregated 3,313,861 tons, a decrease in production of 6 per cent from 1917 and 4 per cent from 1916. The quantity shown includes an estimate of 140,000 tons for one establishment in New Hampshire. Of the total quantity of pulp manufactured in 1918, 41 per cent (1,364,504 tons) was made by the mechanical process, 44 per cent (1,456,633 tons) by the sulphite process, 11 per cent (350,362 tons) by the soda process, and 4 per cent (142,362 tons) by the sulphate process. The quantity of mechanical pulp produced was 11 per cent, and that of soda pulp 20 per cent under that of 1917. The output of sulphite pulp was approximately 1 per cent and that of sulphate pulp 68 per cent more than for the year before.

Operating conditions in the industry for the first ten months of the year were largely of the restrictive character of those prevailing in 1917. Difficulty was experienced in getting adequate stocks of pulpwood and in transporting it, in securing supplies of necessary materials, because of diversion or scarcity in the movement of incoming and outgoing freight, and, particularly, in the matter of labor. These conditions were all incident to the war activities of the country. The demand for pulp continued undiminished during the year and, outside of the ordinary channels of consumption, further utilization of pulp took place for strictly war purposes. Imports of wood pulp were approximately 100,000 tons less than for either one of the two preceding years.

Pulpwood Consumption

Consumption was slightly less than in 1917 as a result, in part, of the non-operation of several mills. Total importations of spruce and poplar varied little from the figures for other years, and the relative importance of the various species utilized remained practically unchanged. The increased use of hardwoods—beech, birch, maple, and chestnut—shown in 1917 over 1916 was still further added to in 1918.

In Maine, New York, Pennsylvania, and New Hampshire, four of five States leading in the quantity of pulpwood consumed, the figures for 1918 show a decline from the preceding year, ranging from 5 per cent in New York to 17 per cent in New Hampshire. In Wisconsin, the remaining one of the five leading States, the increase amounted to about 7 per cent. In all of the other States for which figures are shown separately, with the exception of Michigan and North Carolina, decreased use is evident.

The story of the almost uninterrupted growth of the industry is

told in the tabulation. The average cost per cord figures out \$4.95 for 1899, \$8.62 for 1909, and \$13.93 for 1918—and these mounting costs are of much significance in connection with the economics of the industry.

Consumption of Wood by Species and States

It is not permissible to print the figures for certain States other than in group form because the operations of individual firms would thus be revealed. Spruce forms 55 per cent, hemlock 16 per cent, balsam fir 7 per cent, and poplar 6 per cent—a total of 84 per cent—of all the wood used. The relation of each of the woods quoted to the aggregate consumed differs little from that in the immediately preceding years.

The reported use of slabs and other mill waste declined from 233,982 cords in 1917 to 154,603 cords in 1918.

It may be assumed that an increased utilization of some of the minor species, where they are available, will naturally follow the upward trend of pulpwood values.

Consumption of Wood by Processes of Manufacture

Of the 5,250,794 cords going into the making of pulp, 25 per cent was utilized in the production of ground wood pulp, 55 per cent in sulphite, 14 per cent in soda, and 6 per cent in sulphate. The conifers enter largely into the production of mechanical and sulphite pulps, while the bulk of the wood used in both soda and sulphate processes is hardwood.

Average and Total Costs of Wood

The figures for 1916, 1917, and 1918 are directly comparable, having been gathered by one agency under similar conditions; the data for 1909 were provided to permit of a ready comprehension of the changes since that period.

The reports for 1918 are for 250 establishments as against 246 in 1917 and 235 in 1916. In 1909, 253 establishments operated. Comparative figures indicate that the number of new mills put in operation during the last few years has not offset those which have shut down permanently.

In 1917 the average cost jumped from the 1916 average of \$8.76 to \$11.10, or 27 per cent. An advance of \$2.83—from \$11.10 to \$13.93, or 25 per cent—took place from 1917 to 1918. Wood costs, in other words, have gone up nearly 60 per cent in the last three years. Emphasis is laid upon the fact that the average cost per cord is computed from the figures reported by mills operating under conditions both general and peculiar to themselves and which preclude their costs' being directly comparable. This fact should be considered in using the average cost per cord in any computation or deduction. The increase in cost per cord over 1917 amounted to 37 per cent in Maine, 24 per cent in New York, 13 per cent in Wisconsin, 38 per cent in Pennsylvania, and 31 per cent in New Hampshire.

Range of Pulpwood Prices

For the bulk of the rough wood approximately \$11 to \$12 was paid; for peeled wood, \$15 to \$16; for rossed wood, \$20 to \$21; and for slabs, \$8 to \$9 per cord. Pulpwood costs averaged between \$3 and \$31 per cord, which emphasizes the fact that a great diversity exists in operating factors.

Quantity and Cost of Wood by Condition

Of the aggregate quantity of wood consumed by the mills, 47 per cent was bought in the rough, 46 per cent peeled, and 7 per cent rossed. The average cost per cord reported for rough wood was \$11.78. The added preparation given the wood adds to its value, so that for peeled wood the average cost was \$15.18, and for rossed wood \$20.07.

Condition of Wood by Species

Of the domestic spruce 50 per cent is delivered in the rough and 42 per cent peeled; of the imported spruce 29 per cent is rough, 49 per cent peeled and 22 per cent rossed. In hemlock, 73 per cent is rough and 27 per cent peeled, and in balsam fir 41 per cent is

rough, 44 per cent peeled, and 15 per cent rossed. With the exception of tamarack, all of which is rough, the minor species are principally peeled.

Wood Pulp Production

The reported aggregate output was 3,313,861 tons, of which 41 per cent was mechanical, 44 per cent sulphite, 11 per cent soda, and 4 per cent sulphate. The 1918 output of pulp was 4 per cent less than that in 1917. The production of ground wood pulp was 11 per cent and that of soda pulp 20 per cent under that of 1917. Sulphate pulp production was greater by 68 per cent, and that of sulphite by less than 1 per cent than in 1917. The increased sulphate production was not confined to any one State, but was a general condition participated in by practically all of the mills turning out sulphate. Of the mechanical pulp manufactured 90 per cent was not steamed and 10 per cent was steamed. Of the sulphite pulp, 62 per cent was unbleached and 38 per cent bleached; in soda pulp 8 per cent was unbleached and 92 per cent bleached; in sulphate pulp 87 per cent was unbleached and 13 per cent bleached.

Maine, New York, Wisconsin, New Hampshire, and Pennsylvania are the leading States in pulp production in the order given. In the five States named 76 per cent of the country's total output of wood pulp was manufactured in 1918.

In but two of the larger States did the production of pulp exceed that of 1917—Wisconsin with a 4 per cent and Michigan with a 15 per cent increase. The increase among the States grouped as "all other" amounted to 12 per cent. The losses in production range from 3 per cent in Maine to 21 per cent in the northwest group of States—California, Oregon, and Washington. The decrease in volume in New Hampshire was 11 per cent, Vermont 12 per cent, West Virginia 13 per cent, Minnesota 14 per cent, and North Carolina 17 per cent.

The average value f. o. b. mill for all wood pulp produced is \$52.68 per ton, an increase of \$9.35 per ton, or 22 per cent over 1917. The average figure was computed from reports covering the production of approximately 90 per cent of the aggregate output for the year. The value of mechanical pulp given is 17 per cent, sulphite pulp 21 per cent, soda pulp 18 per cent, and sulphate pulp 43 per cent above that reported for 1917.

Pulp Production for Two Decades

Pulp manufacture increased 80 per cent in the 10-year period 1899-1908, and 33 per cent in the 10-year period 1909-1918.

Imports of Pulpwood

The imports for 1918 were larger than for any other one of the years shown, and were 33 per cent in excess of the 1917 imports. The quantities given do not correspond with the figures in preceding tables of this report showing the volume of imported woods consumed; the Forest Service data are for spruce and poplar alone, and the quantity of other species which are imported is not recorded. Much wood is carried over in storage from year to year, so that further discrepancies may occur. The average value per cord advanced \$1.45, 17 per cent, to \$9.75 in 1918, adding nearly \$5,000,000 to the cost of pulpwood for the year. Practically all of the pulpwood is imported from Canada.

Imports of Wood Pulp

The aggregate imports of wood pulp in 1918 were smaller than in either 1917 or 1916—the decrease as between 1918 and 1917 amounting to 15 per cent. The decline in imports was due principally to the lessened quantity of ground wood pulp brought in; in 1917 the imports were 249,172 tons, compared with 165,605 tons in 1918.

The average value of imports per ton was \$60.97, a drop of \$8.39, or 12 per cent, from the previous year. The average value is practically double that of the pre-war period.

Exports of Wood Pulp

Wood pulp exports slumped nearly 15,000 tons, or 42 per cent,

below the 1917 record, and the quantity more nearly approaches the normal figures for before the war. The average value per ton for all exports was \$85.91, representing a difference of \$13.37, or 13 per cent, below the year before.

Imports of News Print and Other Paper

A substantial gain of approximately 74,000,000 pounds or 7 per cent, took place in news print paper imports in 1918 over the preceding year. The increase in 1917 over 1916 was 19 per cent. In 9 years, 1910 to 1918, imports have gone from 113,000,000 pounds to 1,193,000,000 pounds. The average value per pound of imported news print advanced from 2.76 cents to 2.94 cents. The quantity of all other printing paper imported was 182,995 pounds; in 1917 the imports were 412,091 pounds. Imports of wrapping paper increased 19 per cent. The value of all other paper imported decreased 30 per cent.

Exports of News Print and Other Paper

Exports of all kinds of paper were larger in 1918 than during the year before. The exports of news print were 193,479,180 pounds, 3 per cent more than for 1917. The average value per pound of the news print exported is 4.13 cents. The quantity of all other printing paper exported was 99,218,916 pounds, an increase of 5 per cent over 1917; the exports of wrapping paper were 59,899,043 pounds, an increase of 14 per cent. The value of all other paper exported was more by 23 per cent than the year before.

Fall Meeting of A. P. & P. A.

A meeting of the secretaries of the various affiliated associations of the American Paper and Pulp Association has been called by L. B. Steward to determine just what proportions the fall meeting of the association shall assume. Because of the action which was taken at the last convention, changing the date of the annual convention from February to April, fourteen months will elapse before the next convention is held in April, 1920. It is thought that in view of the many changes which have taken place in the business world since the last convention, a meeting in the fall is advisable, and just what sort of a meeting this will be is to be decided at the meeting of the secretaries.

At the regular quarterly meeting of the executive committee held on July 23, it was the unanimous opinion that a conference should be held in the near future, and the secretary has tentatively engaged rooms at the Waldorf-Astoria Hotel for November 10, 11, 12, 13.

Forest Inventory Being Made

[FROM OUR REGULAR CORRESPONDENT.]

MONTREAL, Que., August 18, 1919.—An inventory is being made by the officers of the Provincial Department of Lands and Forests.

An expedition is leaving for Maskinonge, to take stock of the riches of that region in timber limits. The Tourville Lumber Company is co-operating.

There is another expedition in the Abitibi region wherein, for some weeks past, work has been done to collect data and figures on the wealth of that region in lumber. Two other expeditions are also at work on the north shore of the Gulf of St. Lawrence. One of these will probably drive inland as far as the confines of the new Ungava region.

Every forest region of the province will thus be visited for the inventory of Quebec's riches in timber lands.

To Investigate News Print

[BY TELEGRAPH TO THE PAPER TRADE JOURNAL.]

WASHINGTON, D. C., August 20, 1919.—Senator Reed of Missouri today introduced a resolution in the Senate to investigate the news print industry. The resolution was agreed to, and has been referred to the Committee on Commerce.

P. T. DODGE IS NEW HEAD OF NEWS PRINT SERVICE BUREAU

Organization at Its Summer Session at the Ritz-Carlton Hotel in Montreal Last Week Hears Reports on Production and Discusses Improved Methods of Manufacture, Cost Accounting, Etc.—Although Production of News Print Is Greater Than Recently It Is Not Keeping Pace With the Demand—Plans Are Discussed for a New Paper Plant at Brockville—Inspect Whalen Mills.

[FROM OUR REGULAR CORRESPONDENT.]

MONTREAL, Que., August 19, 1919.—The News Print Service Bureau gathered in summer session at the Ritz-Carlton Hotel this week, when reports were received on production and general conditions governing the industry and stocks on hand, and discussion took place on improved methods of manufacture and cost accounting.

There were about forty representatives in attendance. At the morning meeting P. T. Dodge, president of the International Paper Company of New York, was elected President of the Bureau to succeed the late G. H. P. Gould, who died during his year of office. The reports on production brought out the fact that although the production is greater, it is not keeping pace with the demand by dailies and weeklies on the North American continent.

During the first six months of the year it was shown there was produced in Canada 388,924 tons of news print paper, and in the same period the United States produced 671,141 tons, which was six per cent. more than in the corresponding period of last year. It was stated that the demand for news print was so great that the supply on hand had never been smaller than at the present moment. Advertising in the United States was 46 per cent heavier than at this time last year. Nine leading newspapers in New York city had during the past four months averaged twenty pages each for dailies and ninety pages for Sunday issues, and six principal dailies in Chicago averaged 24 pages on dailies and 92 for Sunday editions.

On the other hand, the reports of various representatives indicated optimism as to the outlook for increased production in the news print line, and makers of news print machinery reported great activity in all lines, to such an extent that the output of machinery was behind.

The visitors were the guests at luncheon of the Canadian Pulp and Paper Association, following which an address was given by Bernard K. Sandwell, who spoke on the economic importance of the news print manufacturing industry to Canada. That industry, he pointed out, was one of Canada's great national industries inasmuch as the export trade thereon brought back to the Dominion a large amount of cash which helped to maintain the balance of trade in favor of Canada. For that reason it was most desirable that the manufacture should be encouraged and cultivated in every way.

An extensive exhibit loaned by the Bureau of Standards of the United States Government was on view at the hotel, in which were seen many varieties of paper products, many of which had been applied to special war purposes.

New Mill Is Proposed

Plans for the immediate construction of a paper manufacturing plant to commence with at least 150 hands and to erect a three-story factory on what is known as the Wood Brickyard property, Brockville, were discussed at a meeting of the Board of Trade in the Victoria Building. The company which will erect the plant, is to be known as The Brockville Paper Manufacturing Company, and

will shortly be incorporated as such. Representatives of the company who have already entered into agreement with town of Brockville are C. F. Buss, of Mille Roches, and John R. Buchanan, Ottawa. As outlined by the president of the board of trade, J. Gardner, the agreement calls for municipal aid only to the extent of a free grant of property upon which the factory will be located, a fixed assessment of ten thousand dollars for a period of ten years, a free use of a ditch to be constructed by the corporation, and free supervision by the company of a pumping plant to be erected at the power house of the corporation and to be operated during the term of agreement without charge to the company. The price of the property is placed at \$4,500.

Inspect Whalen Pulp Mills

Sir George Bury, of Montreal, president; James Whalen, chairman of the board of directors, and Henning Helin, general superintendent of Whalen Pulp and Paper Mills, Limited, have just returned from an inspection trip to the company's plant at Mill Creek, British Columbia.

Mr. Whalen is on the coast on a general inspection tour of the company's properties, and expressed himself as being very well satisfied with the progress being made. Mr. Whalen confirms the reports from the east that the pulp markets are stiffening and new fields are continually being opened. "The company's plants are undergoing some slight alterations," said the visitor, "which will improve the quality of the product, and with normal shipping conditions returning, an opportunity is opened greatly to expand the export markets for B. C. pulp, which in quality equals the product of any country in the world.

Besides changes in management, the company is obtaining funds needed for expansion in proportion to its opportunities. The unsold balance of the \$1,500,000 first mortgage bonds recently authorized is now offered the public by Royal Securities Corp.

New Record on Spanish River Mill

The new news print mill of the Spanish River and Paper Mills, Limited, is establishing new records as far as construction and installation are concerned. The entire building—the construction work on which was started on June 1—is now complete. The work of installing the machinery is now being rushed, one set of machines will be in operation by November 1, and from this portion of the mill an output of 50 tons a day will be obtained.

The second set of machines will be installed and in operation sixty days after that date, or by February 1, 1920, which will give the new mill a daily output of 100 tons. This will easily break all records in the way of achievement in connection with paper mills in Canada.

To Reopen Plant at St. John River

A. R. Gould, of Presque Isle, Me., well known in Montreal through his connection with St. John Valley Railway enterprise, is the president of a new company which has taken over the Aroostook Pulp and Paper Company's plant on the St. John River at Keegan, north of Vanburen, Me.

Owing to difficulties the mill has been closed for some weeks, and now, it is learned, Mr. Gould and H. B. Stebbings, of Boston, have purchased the stock interest of E. P. Lindsay and others in the enterprise and the plant will soon be in full operation once more and eventually on a larger scale than ever.

The plant was built in 1917, and is thoroughly equipped, having a daily capacity of about 60 tons, upwards of 200 men have been employed.

Wheat and News Print

Edward Beck, who is acting secretary of the Canada Pulp and Paper Association, in a letter recently published in the Montreal Gazette, calls attention to the sadly different attitude of the Government in fixing the prices of wheat and news print. In the first case only the producer is considered, and in the second, only the consumer.

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GLENDALE PULP & PAPER CO. WILL BUILD AT KALAMAZOO

Company to Organize with Capital of \$250,000 and Will Immediately Erect a Plant to Operate a Process That Has Been Perfected for Reclaiming Waste Wax Paper—Frank H. Milham, Just Returned from Labrador, Makes Interesting Report on the Pulp Wood Resources of That Region—Kalamazoo Paper Co. Wins Case Against Canadian Pacific Railroad—Universal Pulp Co. to Start.

[FROM OUR REGULAR CORRESPONDENT.]

KALAMAZOO, Mich., August 18, 1919.—The Glendale Pulp & Paper Company, with a capital of \$250,000 was organized at a meeting held Tuesday evening in the offices of the Kalamazoo Vegetable Parchment Company. At that time the following board of directors was named: C. A. Peck, C. A. Fox, S. Ward Kennedy, C. H. Stearns, A. B. Connable, W. J. Lawrence, Frank Mossteller, C. S. Campbell and Jacob Kindleberger.

The officers are: President, Jacob Kindleberger; vice-president, W. J. Lawrence; secretary, S. Ward Kennedy; treasurer, C. S. Campbell.

The company plans immediately to erect a new plant on a site just northwest of the present Kalamazoo Vegetable Parchment mill. By a process that has been perfected the new concern will reclaim waste wax paper by separating the wax and reconvert it for use, while the paper will be made into a paper pulp to go again into the manufacture of paper. Under former conditions wax paper manufacturers were forced to destroy their waste wax paper.

Billingham & Cobb, mill engineers and architects, are engaged in drawing the preliminary plans for the new structure, which will be of the highest type, modern construction. The machinery has been nearly all purchased, and it is planned to get the plant in operation as soon as possible.

Frank H. Milham Returns

Frank H. Milham, president of the Bryant Paper Company, who has just returned from an extended tour into Labrador, declares that region boasts great quantities of spruce timber, suitable for wood pulp, but the conditions will make it hard to cut and deliver to the outside world.

"All the coast is bare as well as the mountains," said Mr. Milham. "The timber abounds along the river bottoms and in the valleys. It is a very rough country, with swift running streams, rapids and waterfalls. Frequent portages are necessary to travel by the streams. Another detriment is the length and severity of the winters. During most of the year that country is frozen in and communication with the outside world is impossible.

"A complete log of our trip was kept by W. T. Chantland, former chief examiner of the Federal Trade Commission. That will be shortly available. We also took a large number of very interesting photographs and motion pictures of the coast line and interior sections. These are now being reproduced."

Mr. Milham left New York the first week in June on board the yacht *Carmen*. The party was organized by George M. Seaman and Joseph B. Seaman, respectively president and vice-president of the Seaman Paper Company. At the last moment George Seaman was unable to make the trip. The yacht was commanded by Captain R. Forward, who went north with Peary. In addition to timber cruisers, guides and crew, the party included Stanley Arthur, secretary of the Birds and Game Commission of Louisiana; E. R. Ireland, a New York artist; Clayton Seaman, Chicago; J. M. Miles and assistant motion picture operators.

The yacht took the inner route through the Gulf of St. Lawrence, thence through the Straits of Belle Isle, where it was held

up a week by ice; along the coast to Battle Harbor and Indian Harbor and into Hamilton Inlet to Rigolette. It was the first boat to touch at any of those points, the season being very late.

The *Carmen* then went through Goose Bay and into the Hamilton River, where the journey was resumed by motor boats and canoes. Permanent camp was made at the lower falls, while some of the party went on to Grand Falls, said to equal Niagara Falls in flowage power. The adjoining territory to the extent of 2,500 to 3,000 miles was inspected by the timber cruisers. Most of this territory is seldom visited by white men.

Electric Power for Port Huron

The Detroit Edison Company of Detroit has taken an option on the plant of the Port Huron Gas & Electric Company—which is a subsidiary of the American Railways Corporation—for both the gas and electric plants. It is in line with the intention of the Detroit Edison Company to invade Port Huron and supply electric power generally there.

A. C. Marshall, vice-president of the Detroit Edison Company, has issued the following statement: "I will say that the Detroit Edison Company, if it enters the Port Huron city field, will stand ready to meet every legitimate requirement of new industry in the way of extension of its electric power or mains. We now supply the Detroit United railway, and will soon be operating the Grand Trunk tunnel power house. Several years ago we bought several hundred feet of river front at Bunce Creek, and there expect to build a power house in the near future that will be capable of supplying every requirement that the Wills-Lee interests may impose on us, as well as any demand that Port Huron or adjacent territory may make."

Kalamazoo Co. Wins Case

According to the report of the Interstate Commerce Commission, the Monarch Paper Company, of Kalamazoo, has won its case against the Canadian Pacific Railroad, the director general of railroads, et al. It involves the rate on china clay in bulk, carloads, from Montreal wharf, Quebec, to Kalamazoo. This rate is declared to be unreasonable to the extent that it exceeded the rate contemporaneously applicable on china clay in packages, in carloads. The amount of the reparation due the Monarch Paper Company is to be computed and an order issued for payment.

Universal Pulp Co. to Start

The Universal Pulp & Paper Company of St. Joseph, Mich., expects to start business in its new plant the later part of September or the first of October. The concern is capitalized at \$50,000. At the outset the company plans to produce about ten tons of dried boxboard a day. John M. Burby, of Southbridge, Mass., is president; W. E. Burby, St. Joseph, vice-president and general manager; L. D. Troost, secretary; W. F. Benning, treasurer. In addition to the officers named Maynard Stuart and F. L. Bradford constitute the board of directors.

Monroe Binder Board Co. Increases

The Monroe Binder Board Company of Monroe, Mich., has increased its capital stock from \$1,000,000 to \$2,000,000, and is giving Monroe people a chance to subscribe for some of the preferred stock, which bears 7 per cent. interest. The money derived is to be used for erection and equipment of a new box factory and an administration building.

Bartlett C. Dickinson, president of the Standard Paper Company, has returned from a visit to Charlevoix, Mich.

Bertrand Hopper, secretary and general manager of the Kalamazoo Stationery Company, accompanied by Mrs. Hopper, is motoring through the Adirondack Mountains.

Alfred E. Curtenius, secretary of the Kalamazoo Paper Company, and family are at Charlevoix, Mich.

Walter Sooy has been appointed general superintendent of the Michigan Carton Company, Battle Creek. He succeeds J. F. Byrne, who recently came to the Standard Paper Company, Kalamazoo.

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PRICES IN PHILADELPHIA SHOW A HIGHER TENDENCY

Practically Impossible for Dealers to Make Quotations That Will Hold Except for Immediate Delivery—Demand for Paper Stock Is Active and Price Advances Have Been Made on Almost All Grades—Simon Walter Acquires Additional Building to Accommodate Expanding Business—Lindsay Bros. Appointed Sole Distributors for Certain Lines of the West Virginia Pulp & Paper Co.

[FROM OUR REGULAR CORRESPONDENT.]

PHILADELPHIA, August 18, 1919.—Though there came about some settlement of prices, in the better grade of bond, it is believed by the trade that the present price is but temporary, and that in a short time there will be an upward revision here. So far as this grade alone is concerned the jobbers are able to quote prices without first having to call up the mill to receive the latest rates. That price is about ten per cent in advance of the price a month ago.

All the other grades, however, are unsettled as to price, and it is practically impossible for the wholesalers to give prices which will hold save for immediate acceptance. Nor are they able to make definite promise of goods either. There is no available tonnage in the hands of the mill men, and they are too busy getting out orders for immediate needs to have time to make up stock. Nearly all the mills report being oversold on book, enamelled and news. They intimate that about October 1 they will be in a position to talk large orders and to establish a price which will last longer than the day on which it is given.

Active Demand for Paper Stock

The Philadelphia stock men have been benefitting by the misfortune of their fellows in New York. The strike of the packers there has hampered deliveries of stock and the mills have therefore turned to Philadelphia. Here the packers are not yet organized although efforts are being made to make them dissatisfied with their wages, too. The result of the heavy buying and the scarcity of supplies has been an increase of prices on every grade in the market save old kraft and overissue news. Rag stock, too, has been more active as a result of the freer buying of the mill men and advances are reported on blues, black cotton stockings, colored wiping rags and white cotton batting. For both old paper and rag stock the demand is so good that the jobbers are able to dispose of goods quite as fast as they are being accumulated. There is no large available stock anywhere, the trade preferring to keep stock moving and their establishments cleaned up rather than to make accumulations awaiting a still higher price. Under these conditions no decline and probability of a still further increase is foreshadowed for the near future.

Simon Walter Gets Additional Building

Very marked expansion in the business of Simon Walter, 321-323 Cherry street, has made imperative the acquisition of a large additional building. It has been secured and workmen are now engaged in making it available for Mr. Walter's purpose of carrying a larger stock, and of making even prompter shipments. The new building is at 305 Cherry street. It is an L shaped structure with a frontage on Cherry street of 20 feet and a depth of 90 feet, the addition making the L being 100 feet long. The rear abuts off a courtyard with an entrance from Race street, giving two splendid frontages for shipping and receiving goods. The building is four stories high. Elevators and electric lighting system are being installed and outside in the rear there is being erected a large platform with corrugated iron roof so that ship-

ments can be made in any weather. In the new building the first floor will be devoted to the temporary storage of bulkier stock. On the second floor there is to be installed a modern, up-to-date plant for making paper specialties and in addition quarters for a department for hand made millinery bags. The upper floors will be used for storage. For the present he proposes to continue his office at 321-323 Cherry street, but it is to be enlarged and modernized with individual desks for all the salesmen. On the second floor of the old building there is being developed the printing department. Automatic feeders and all other modern time saving and efficiency equipment is being installed. Mr. Walters has laid down a policy of broad expansion involving new and additional mill connections and the strengthening of the sales force for both the city and the country trade.

Lindsay Bros.' Improvements

Lindsay Brothers, who occupy the old Times Building, 8th and Samson streets, have just been appointed sole distributors for the West Virginia Pulp and Paper Company's line of coated book, bonds, enamelled writings, index, bristol and post card. As a consequence of the new arrangement the firm is opening up a new and in some respects novel way of merchandising. It has prepared a pamphlet describing the various lines made at the West Virginia mills, much instructive material on manner of manufacture and best use of product and of course a price list. New lines of goods have been added to the stock, among them being the Brandywine Bonds under the firm's own watermark, in six colors, standard weights and Beaver index bristol for printers' use. As a consequence there has been an increase in the personnel of the shipping department under the charge of J. A. Fisher so that now there are thirteen shippers employed, an increase in the material equipment by the extension of the shipping platform and enlarged quarters. The firm reports its Keystone Mills jammed with orders with two shifts working steadily. Advances are to be made during the week on the firm's many lines of specialties.

Other Expansions and Improvements

The Penn Paper and Stock Company, which recently took over the Bicking Paper Company, 113 North Second street, is extending its Cutting Department. New cutters for various sizes of white news and manila papers have been installed, enlarged quarters on the upper floor of the building being leased for this purpose. The business is under the management of Leo MacGibbeney. The line of balers and baling wires which the firm formerly carried, has been sold to the K and B Company, 459 North Third street.

Morris Kardon, 220 Pine street, has extended his plant by an addition which carries it back to Stamford street. The addition is a five story building which will be devoted to the manufacture of boxes and paper bags leaving the Pine street building for the paper business. In the addition there is available some 10,000 square feet of room and herein machinery is being installed especially suited to the manufacture of folding suit boxes and millinery cartons. A New York office shortly is to be opened under the firm name, The Morris Kardon Paper Company. It will be in charge of Albert Kardon, a brother of the head of the firm which will be in charge of the Philadelphia office. The Box plant will be run under the management of Louis Philipson. In its paper department the firm will specialize on pattern papers but in addition will carry a complete line of fine and wrappings.

Changes at Safepack Offices

With the presence in the city during the week of Kurt Wandel, general manager of the Safepack Mills, Boston, announcement is made of change in both personnel and policy of the Philadelphia office, 231 Chestnut street. A. D. Lamson, the former local manager, has retired from the Safepack family and by

(Continued on page 24.)

"IMPROVED" KNOTTER

for the first screening of sulphite, sulphate or ground wood pulp

We shall be glad to furnish data and samples of the work this machine will do in actual use.



Knotter Design No. 2

The cost of power and upkeep is extremely small and the results are very satisfactory.

WE ASK A THOROUGH INVESTIGATION

IMPROVED PAPER MACHINERY CO.

NASHUA, N. H., U. S. A.



**DIRECT READING
Automatic Micrometer**
Price \$25.00

Graduated in thousandths of an inch from .001 to .250. Guaranteed to be accurate. Has base adjusting screw. Mechanism Brass and Plated Steel. Finished in black enamel. Exact size 8 1/2 x 18 with 4-in. Dial. Send your order direct to the manufacturer.

THOMPSON-BREMER & CO.
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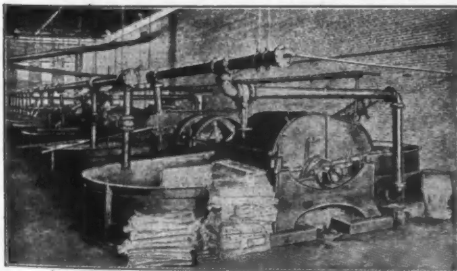
ALEXANDER JACOB & CO.

WAPPING, LONDON, ENGLAND

PACKERS OF ALL CLASSES OF ENGLISH AND CONTINENTAL PAPER STOCK. WASTE PAPERS, SHAVINGS, NEW AND OLD CANVAS, RAGS, ROPES AND STRINGS, GUNNY, TARES

Established 1875

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The Illustration Shows a Typical Dilts Equipment in the Beater Room of One of the Largest Boxboard Mills in the United States

WE ALSO MAKE A SPECIALTY OF

Fly Bars, Bed Plates and Machine Knives

Owning and operating as a separate department of our business the Knife Works formerly Taylor Brothers & Co., makers of MACHINE KNIVES at Fulton, N. Y., for over fifty years.

Dilts Machine Works, Inc., Fulton, N. Y., U. S. A.

RICHARDSON CO., LOCKLAND, TO INCREASE CAPITAL STOCK

Authorize New Issue Totaling \$1,000,000—Based on Reports of Experts, Property Has a Replacement Value of \$2,749,538.19—All Mortgage or Floating Indebtedness Will Be Retired with the Sale of the Stock, Which Has Been Practically Concluded—Paper Investments Said to Be Attracting a Surprisingly Large Number of Persons of Moderate Means—Business Conditions Good.

[FROM OUR REGULAR CORRESPONDENT.]

DAYTON, Ohio, August 18, 1919.—The Richardson Company, of Lockland, has authorized a new issue of stock totaling \$1,000,000 preferred.

In offering the stock to the public, President John M. Richardson gives the following facts: The total output of the company is one of the largest in the paper industry. For more than 50 years the Richardson Paper Company and its predecessor, the Halde-man Paper Company, have operated paper mills at Lockland. Three of the executive officers are grandsons of the founder of the business.

Based on the report of experts, the property has a replacement value of \$2,749,538.19, excluding good will, trade names, etc. This represents a value of more than \$274 per share on the preferred and more than \$102 on the common stock. In no year since 1898 has the business failed to make a profit from operations. During the past three years, the average net surplus earning after Federal taxes, depreciation and renewal charges, was \$439,093.27, equal to 61-3 times dividend requirements on the preferred stock.

The Richardson Company recently purchased the Heppes-Nelsen Roofing Company, of Chicago, Ill., and the estimated sales of the Lockland concern this year will aggregate \$6,000,000 from which profits should not be less than \$400,000.

To Retire Indebtedness

It is planned to retire all mortgage or funded indebtedness, as well as a floating debt, with the proceeds of the sale of stock, which practically has been concluded. The articles of incorporation provide that no mortgage shall be placed on any of its property nor may the amount of authorized preferred stock be issued for over 80 per cent of the value of the properties acquired. The balance must be taken from accumulated earnings or provided by issue of additional common stock.

The shares are of the par value of \$100, and are redeemable at 110 and accrued dividends. An interesting feature of the offering is that it is exempt from normal Federal income tax, and that it is tax free in Ohio. Relative to the matter of earnings, the company reports that they amounted to more than \$75,000 in 1914 on a capital of \$600,000; \$111,391.97 in 1915 on a capital of \$1,000,000; \$532,237.25 in 1916 on the same capital; \$834,915.46 in 1917 on a capital of \$1,500,000; and \$648,196.64 in 1918 on the same capital. It should be mentioned that inasmuch as the Federal Tax was but \$10,644.75 in 1916, the tax amounted to \$337,885.84 in 1917 and \$349,538.94 in 1918.

The million dollar issue was sold at 102 and will net 6.86 per cent on the investment. Of the capitalization of \$2,000,000 in preferred stock, \$1,000,000 has been issued, and of the common stock \$1,700,000 of the \$2,000,000 has been issued.

Paper Investments Attractive

It is said to be surprising how many persons of moderate means are investing in the paper industry. An authority states that whereas before the war the number of investors in business enterprises in the United States was well in the hundreds of thousands,

now they may be counted by the million. The great educating factor was the offering of Liberty loans and war savings stamps.

Favorable Business Conditions

Business conditions are most favorable, the mid-summer dullness of past years having disappeared entirely as a characteristic of the paper trade, judging from the present situation. Never before have the bank clearings been as large in this and surrounding towns. Banks are fairly well supplied with funds, yet their loaning surplus is not as great as it was a year ago. The demand for the better grades of paper continues keen and prices are substantial.

No Immediate Change in Paper Firm

Just what disposition will be made of the John P. Keogh stock in the Keogh & Rike Paper Company, of this city, has not been made public, but it is reported in the trade that no immediate change is expected. However, no authoritative statement has been made by members of the company. Robert Keogh, soldier son of the late president of the company, was bequeathed one-third of the estate, and it is understood that he will obtain a goodly share of his father's stock, inasmuch as he was identified with the business before he went to war. Three other sons reside in other cities. Mrs. Keogh lives on her late husband's farm, just east of the city.

PRICES IN PHILADELPHIA

(Continued from page 22.)

letter has been boomed by President Schenkelberger as "a fine chap." He has been succeeded by Fred J. Hennig, for two years with the D. L. Ward Company. The firm proposes henceforth to concentrate its sales efforts on the jobber rather than the consuming public; a large stock is to be kept on hand so that the trade may have immediate deliveries of its wants. The Company has advised the jobbers that its mills now can turn out 2000 rolls a day and that cost of production has been reduced. In the local warehouse there will be carried a sample stock of Safepack of all grades Twopaper, Clothback, Burlapback, Cordlined, Wire-lined, Crosscord Rubberpaper and standard sizes of case linings. In its Boston office the firm has engaged Captain H. N. Knowlton, former War Department packing expert and he is prepared to give the trade valuable information through the Packing Service Department which has been organized.

Now the Lenhart Paper Stock Co.

The business formerly conducted by J. I. Lenhart at 236 N. Delaware avenue, as a dealer in waste paper has been taken over by the Lenhart Paper Stock Company. The business will be continued under the same policy as heretofore, J. I. Lenhart retiring.

General News of the Trade

Daniel I. Murphy has been spending a month in Minnesota visiting his daughter, Mrs. Anna O'Neill, at Graceville. Mr. Murphy, together with John S. Mullin, of A. S. Mullin & Co., is disposing of 1000 tons of cardboard, used in the manufacture of containers and trunks and bought from the Government. The stock is carried in the Murphy warehouse, Delaware avenue and Vine street.

J. F. Kachline, the Reading paper box manufacturer is one of the organizers of the Manufacturers Association of Berks County, which has just come into existence.

W. A. Moorehouse, for thirteen years with Jefferson I. Lenhart has joined the forces of Raiguel & Co., in a managerial capacity.

The Charles J. Cohen Company is placing on the market a new line of envelopes with note paper and cards to match specially suited for Fall trade announcements. It is prepared to make deliveries the day of receipt of order.

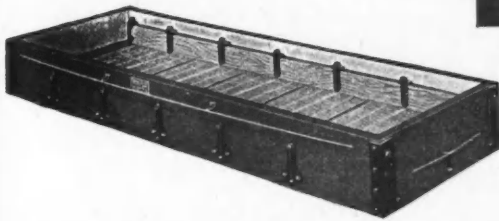
Morgan S. Thomas, of the Garrett Buchanan Company, has built a new summer home at Ocean City and is commuting now.

NORTHERN BRAND
BLEACHING POWDER (HIGH TEST)
CAUSTIC SODA 76-78% N. Y. & L.

MICHIGAN ELECTROCHEMICAL COMPANY
 OFFICE AND WORKS—MENOMINEE, MICHIGAN

UNION SCREEN PLATE COMPANY

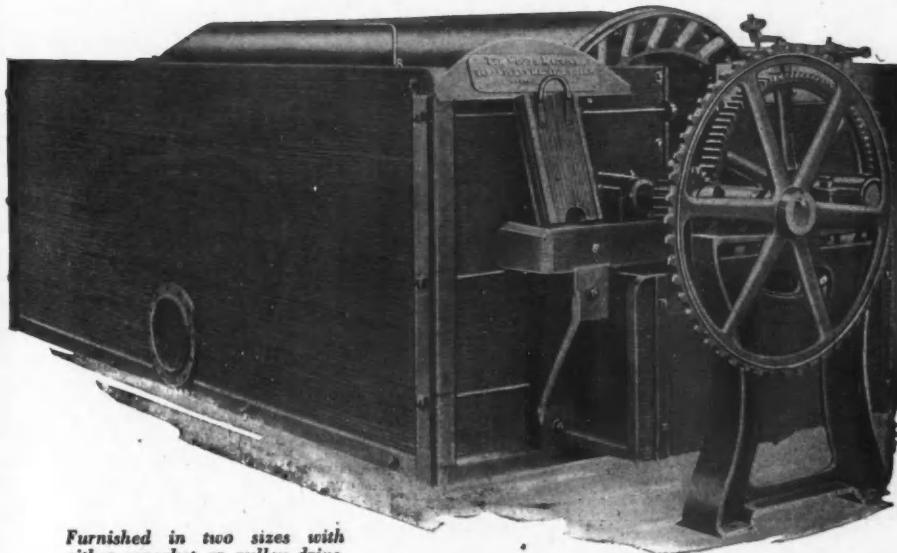
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UNION BRONZE SCREEN PLATES ROLLED BRASS
Best phosphorized Cast Metal (Union Quality)
 Old Plates RECLOSED and RECUT to accurate gauge.
UNION BRONZE SCREWS for Screen Plates
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 Immediate Delivery of the Largest Orders. Satisfaction Guaranteed.

The WITHAM SCREEN PLATE FASTENER, Patented
 THE ORIGINAL THE BEST
 Over One Thousand in Successful Operation Recommended by Screen Makers

THE WOOD'S MACHINE



Reduces wire cost
 Works automatically
 No couch roll
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 Pulp Thickeners
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*Guaranteed High Grade
 Construction—Built for
 Service.*

*Furnished in two sizes with
 either sprocket or pulley drive.*

MADE BY GLENS FALLS MACHINE WORKS : GLENS FALLS, N. Y.

Try our Split Cams for your Flat Screens.
 See Our Exhibit at National Chemical Exposition, Chicago, Week September 22.

PAPER MAKERS GET INCREASE IN AND NEAR HOLYOKE, MASS.

New Rates Amount to 14 Per Cent. and Will Go Into Effect September 1 and Will Continue Until July 1, 1920—Paper Manufacturers are Prominently Interested in Movement to Lower the Cost of Food—J. E. Clark, Holyoke's Veteran Paper Maker, and Mrs. Clark, Celebrate 49th Wedding Anniversary—Low Water Causes Shut-down—Goes with Vinton Paper Company.

[FROM OUR REGULAR CORRESPONDENT.]

HOLYOKE, Mass., August 18, 1919.—More than 2,200 men, which includes the 1,700 tour workers in the paper mills in this city, and the 500 others in Wilbraham, Woronoco and Mittineague, will be benefitted by the 14 per cent increase in wages announced by Eagle Lodge of paper makers Sunday. The demands for increased wages were made to the manufacturers several weeks ago, and after many conferences, and also after the workers had several times rejected the counter propositions by the manufacturers, the offer made the workers by the manufacturers last week was at last accepted. The new rates have been accepted by the workers, and effect the tour workers only. The other union organizations, which include practically every branch of the industry will also receive an increase. The original demands from the tour workers specified an increase of 25 per cent, but a compromise was effected. The table of the new rates compared with the old schedule follows:

	Former rate.	New rate.
All skilled papermakers, machine tenders and beater engineers.....	\$5.00-\$6.00	\$6.00-\$6.72
Backtenders	\$3.76	\$4.32-\$5.04
Third hands	\$3.44-\$3.76	\$3.92-\$4.94
Fourth hands	\$3.44	\$3.92
Washer engineers	\$3.76	\$4.32-\$5.00
Beater helpers and stock diggers.....	\$3.44	\$3.92

A feature of the new working schedule is the acceptance by the manufacturers of the demands of the workers to suspend operations for 32 hours on Christmas and the Fourth of July instead of 24 hours as heretofore. The new rates go into effect September 1 and will continue until July 1, 1920.

For Lower Food Prices

Paper manufacturers are prominent in the newly organized New England Farm and Food Foundation, which was formed at Boston last week by a group of well known business men. George A. Galliver, president of the American Writing Paper Company, and Horace A. Moses, president of the Strathmore Paper Company, were elected vice presidents of the organization, and George W. Wheelwright, of the Wheelwright Paper Company, of Boston, is treasurer. The purpose of the organization is to bring about a reduction in the cost of living by developing a more direct system of distribution of food products between the producer and the consumers. It is estimated that there are 5,000,000 acres of uncultivated farms in New England, and the men who have taken up the movement hope to bring these under cultivation, and at the same time to re-establish and extend the live stock industry. According to reports the manufacturers have pledged a considerable sum of money for this work.

Celebrate 49th Wedding Anniversary

John E. Clark, one of Holyoke's veteran paper manufacturers, and Mrs. Clark celebrated their forty-ninth wedding anniversary with a family gathering and reunion last week Sunday. Mr. Clark has had an interesting paper making career, and has been

extremely successful in years past. Born at Ashfield in 1847, he entered the employment at the age of 16 years of R. C. Dickinson & Co., of New Haven, dealers in rags and paper stock. At the age of 21 he was admitted to the firm membership. The owners were R. C. Dickinson and George R. and Mr. Clark. In 1878 George R. Dickinson sold his interest in the business, and in the same year Mr. Clark retired.

In 1879, in partnership with G. R. Dickinson, they bought the old Albion Paper Company in this city, which they operated as the Dickinson & Clark Paper Company. In 1890 the Dickinson and Clark Paper Company again went back to the name of the Albion Paper Company, after a very successful twelve years.

Meanwhile, in 1883, with D. M. Dickinson, Mr. Clark bought the Old Excelsior Paper Company's plant. Later Mr. Clark became sole owner of this business and continued at it until ill-health forced him to retire, selling the mill to the late Henry S. Dickinson of Springfield.

With the recovery of his health, Mr. Clark returned to the paper mill business, becoming general manager of the George R. Dickinson Paper Company, staying at this post until the combine of the American Writing Paper Company was formed. Mr. Clark is now president of the Holyoke Bar Company, manufacturers of paper mill engine bars, plates and machine knives, etc.

Crochemac Club Has Outing

The annual outing of the Crochemac Club was held at the Holyoke Canoe Club last week. The guests for the occasion were the office staffs of the Chemical Paper Manufacturing Company and Crocker McElwain Company, and the members of the two mill organizations, the Chemco and Crochemac clubs.

Holyoke Water Power Co. Shuts Down

Another forced holiday was given paper manufacturers today when the Holyoke Water Power Company was compelled to announce a shutdown on account of low water. This shut down was for 24 hours, and the longest of the year, the first shutdown for a period of 12 hours coming a fortnight ago. The mills resume operations tomorrow morning.

Goes with Vinton Paper Co.

William Keyes, well known locally in the paper making field, has been appointed superintendent of the Vinton Paper Company at Brattleboro, Vt. Mr. Keyes was formerly at the Stony Brook division of the Japanese Tissue Mills and went to Brattleboro, six weeks ago as machine tender. He was only recently discharged from the service. The Vinton Paper Company manufacture matrix and blotting papers, etc.

Paper Supply Company to Open in Houston

[FROM OUR REGULAR CORRESPONDENT.]

HOUSTON, Tex., August 15, 1919.—The Paper Supply Company, a wholesale syndicate operating 18 paper houses in the South, has opened a branch at 2002 Conti street. The Houston branch will deal in wholesale and retail printing and wrapping paper.

The new firm was located here through the efforts of the Houston Chamber of Commerce. The warehouse was secured through the chamber's industrial department.

C. E. Schoff, vice president of the San Antonio Paper Company, a Texas branch owned by the company, was a Houston visitor, and expressed himself as pleased with Houston.

The syndicate is backed by the Carpenter Paper Company, one of the largest wholesale paper companies in the country. Mr. Carpenter visited Houston recently and after looking over the field, decided to open the branch house here.

R. W. Anderson, associate manager, will have active charge of the Houston branch. The building has ample trackage facilities for handling large shipments of paper. It is located a short distance north of the Bemis Bag and Fibre Company plant.

M. GOTTESMAN & COMPANY

Incorporated

18 East 41st Street, New York

Bleached and Unbleached WOOD PULP

of Every Description

SOLE SELLING AGENTS FOR THE UNITED STATES

FOR

Ekman & Company.....	Gothenburg, Sweden
Bleached and Unbleached Chemical Pulps	
Bengtsfors Sulfitaktiebolag	Bengtsfors
High Grade Bleached Sulphite	
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Easy Bleaching and Strong Sulphate (Kraft)	
Forsmarks Cellulosafabrik.....	Johannisfors, Forsmark
Easy Bleaching and Strong Sulphate (Kraft)	
Hellefors Bruks Aktiebolag.....	Hellefors
Strong Kraft and Easy Bleaching Sulphite	
Frederiksberg Sulphate Mills.....	Frederiksberg
Strong Sulphate (Kraft)	
Laxa Sulphite Mill.....	Laxa
High Grade Easy Bleaching Sulphite	
Gustafsfors Fabriks Aktiebolag.....	Gustafsfors
Easy Bleaching and Strong Sulphate (Kraft)	
Hjerpen Sulphite Mills.....	Jarpen
Mitscherlich Strong Unbleached Sulphite	
Holmens Bruks Och Fabriks Aktiebolag.....	Norrkoping
Strong Unbleached Sulphite	
Wermbohls Fabriks Aktiebolag.....	Katrineholm
Strong and Easy Bleaching Sulphate (Kraft)	
Konga Aktiebolag	Konga
Prime Bleached Sulphite	
Nyhamns Cellulosa Aktiebolag.....	Sundsvall
Easy Bleaching and Strong Unbleached Sulphite	
Ohrvikens Aktiebolag	Skelleftea
Strong Unbleached Sulphite	
Stromsnas Bruks Aktiebolag.....	Stromsnasbruk
Easy Bleaching and Strong Sulphate (Kraft)	

THE ABOVE MILLS HAVE A TOTAL PRODUCTION
IN EXCESS OF 200,000 TONS ANNUALLY.

BIDS AND SPECIFICATIONS FOR GOVERNMENT PAPER

Purchasing Officer of the Government Printing Office Opens Bids and Announces Awards on Various Lots of Paper—Purchasing Officer of the Panama Canal Receives Bids on Several Lots of Paper and Paper Products—Post Office Department Announces Bids on Envelopes—Bids and Awards for Paper of Various Descriptions Are Announced by Other Departments.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., August 19, 1919.—The Purchasing Officer of the Government Printing Office has received the following paper bids:

31,400 pounds (200 reams) of 41x52—157, of single coated book paper; Merriam Paper Company, at \$.11¼ per pound; D. L. Ward Company, at \$.1195; George W. Millar & Co., at \$.1175; Whitaker Paper Company, at \$.1065, and Dobler & Mudge, at \$.10½.

10,000 pounds (200 reams) of 20x25—50, rough wove dawn cover paper; D. L. Ward Company, at \$.14 per pound; B. F. Bond Paper Company, \$.125; Knowlton Brothers Company, at \$.10875; R. P. Andrews Paper Company, at \$.122; Niagara Paper Company, at \$.14; American Writing Paper Company, at \$.112; and Dobler & Mudge, at \$.12.

3,500 pounds (20 reams) of 22½x28½—175, yellow index bristol board; Merriam Paper Company, at \$.18, \$.25 and \$.30; Stone & Andrew, at 23½; Thomas J. Barrett & Sons, at \$20, and \$23; Carter, Rice & Co., at \$.28¼ and \$.24314; George W. Millar & Co., at \$.27½; Dobler & Mudge, at \$.21, and \$18; Old Dominion Paper Company, at \$.2498, \$.2949, \$.2298, and \$.497; R. P. Andrews Paper Company, at \$.22, and \$1.89; and American Writing Paper Company, at \$.2675.

857,200 pounds of various sizes No. 1 white machine finish printing paper; American Writing Paper Company, at \$.0915, \$.0895, \$.087, and \$.0845; Whitaker Paper Company, at \$.0894, and \$.0809; D. L. Ward Company, at \$.0943, and \$.0916; Dobler & Mudge, at \$.0895 and \$.087.

Government Printing Office to Open Bids

Bids will be opened by the Purchasing Officer of the Government Printing Office on August 22 for 2,250 pounds (50 reams) of 19x24—50 white and red stereotype molding paper.

The Purchasing Officer of the Government Printing Office will open bids on August 22 for 105,450 pounds (2,100 reams) of flat white wove writing paper.

Government Printing Office Awards

The Purchasing Officer of the Government Printing Office has announced the following awards:

Philip Rudolph & Sons will furnish 50,000 pounds (20,000 sheets) of 25x30 No. 20, No. 2 quality binder's board at \$67.50 per ton, bids for which were opened on August 6.

6,400 pounds (200 reams) of 22x34 No. 16 buff writing paper will be furnished by the American Writing Paper Company, at \$1.89 per pound, bids for which were opened on August 8.

The Ideal Coated Paper Company has been awarded the contract by the Purchasing Officer of the Government Printing Office for furnishing 2,300 pounds (100 reams) of 17x22—23, at \$4.11 per ream, bids for which were opened on August 6.

George W. Millar & Co. will furnish 20,000 sheets of 19½x15 inch red paperoid at \$16.50 per 1,000 sheets, bids for which were opened on June 11.

Bids for Panama Canal

The Purchasing Officer of the Panama Canal has received the following paper bids:

10 reams (5,000 sheets) of 22½x28½—110, buff index bristol board; Dobler & Mudge, at \$329.00; George W. Millar & Co., at \$291.50; Virginia Paper Company, at \$21.00 per ream; R. P. Andrews Paper Company, at \$291.50; and Old Dominion Paper Company, at \$307.90 and \$335.40.

100 reams (50,000 sheets) of 8x10½, white bond paper; Dobler & Mudge, at \$79.00; George W. Millar & Co., at \$56.00, and \$70.00; Virginia Paper Company, at \$74.00; R. P. Andrews Paper Company, at \$87.50; and Old Dominion Paper Company, at \$84.60 and \$62.80.

Bids will be opened by the Purchasing Officer of the Panama Canal on September for the following paper items:

80 reams (4,000 sheets) of 17x22 No. 28 white ledger paper.

50 reams (2,500 sheets) of 17x22 No. 20 buff bond paper.

10 reams (5,000 sheets) of 22½x28½ 110 pounds green index bristol board.

Bids for Post Office Department

The Purchasing Officer of the Post Office Department has received the following bids for furnishing 25,000, 10x15 inch kraft envelopes: Union Envelope Company, at \$39.50 per 1,000; Centralia Company, at \$27.75; United States Envelope Company, at \$16.05 and \$15.65; United Paper Goods Company, at \$19.90; Samuel Cupples Company, at \$22.00; and American Paper Goods Company, at \$23.75.

Honors for Hero Paper Maker

[FROM OUR REGULAR CORRESPONDENT.]

NIAGARA FALLS, N. Y., August 15, 1919.—The lure of politics does not appeal to Frank H. Gaffney, the second bravest man in the war who enlisted while working in a Falls paper mill. Gaffney does not want the Democratic nomination for member of assembly of the First Niagara district, although Democratic leaders have filed petitions in his name. Gaffney says he will not accept the nomination, that he is far better contented to remain as chief of the police force of the Harrison Radiator company plant in Lockport.

"I have no political ambitions," says the hero. "I would not go to the legislature if the job was handed to me on a silver platter."

The citizens of Lockport will present Gaffney with a purse of gold on Labor Day as a testimonial of their appreciation of his bravery in service, for which he was awarded the Congressional medal of honor and the British Distinguished Conduct medal. It is expected to raise a purse of \$10,000 among the Lockport citizens. Major General O'Ryan, who had charge of the 108th Infantry, of which Gaffney was a member, is expected to make the presentation speech. All Lockport is expected to turn out for the big event and show the papermaker hero an expression of their appreciation.

Berst Mfg. Co. and Forster Co. Merge

CLOQUET, Minn., August 18, 1919.—A consolidation of the Berst Manufacturing Company of Cloquet, Minn., manufacturer of wood butter dishes and toothpicks, and the Forster Manufacturing Company and the Dixfield Toothpick Company of Dixfield, Me., manufacturers of clothes pins and toothpicks, has just been formed.

A new company under the name of the Berst-Forster-Dixfield Company is being organized to take over the business of these three companies. This consolidation will give the new company an Eastern and Western factory.

Offices will be opened at 405 Lexington avenue, New York City, about September 10 in charge of Ned G. Begle, president and treasurer of the new company.



Manufacturers of

Coated Cardboard, Boxboard and Lithograph Paper, including Lithograph Blanks, Postal Card Stock, Tough Check, Railroad, Thick China, Transluents and Menu Board.

Our Boards and Papers lie flat, hang straight, and register because they are made right.
Orders for regular or special sizes are given prompt attention. Quality guaranteed.

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JORDANS

H. G. 1811.—Noble & Wood Mammoth Jr. Jordan Engine. Capacity 2,000 lbs. per hour.

FILTERS

T. P. 1029.—Four New Oliver Continuous Filters. 4' diameter x 6" face, 75 sq. ft. filtering surface. All cast iron construction, oscillating agitator, scraper, cast iron tank and necessary driving chains and gearing.

T. P. 1093-T. 8 x 8 Oliver Filter. Complete with pump and receiver.

T. P. 1182. Type 850 Kelly Filter. Shell 60" x 168", capacity 275 cu. ft., 10 leaves, filter area 850 sq. ft. Makes cakes 1½" thick.

EVAPORATORS

C. C. 1201. Swenson Triple Effect Evaporator. 54" diameter x 26' 0" high overall. Iron tubes. Complete with filters, etc. Was in use only short time. Good evaporator for paper mill work.

C. C. 1203. Swenson Triple Effect Horizontal Evaporator. 6' 3" wide x 10' long x 11' high, heating surface 336-18 gauge welded steel tubes 10' long. Complete with vapor lines. Dean wet wash vacuum pump and jet condenser. Has been very little used.

H. G. 1353. Zarembo Quadruple Effect Evaporator. Iron tubes. Each effect 144" diameter x 20' high with 960 1"

spellerized steel tubes. Complete with supports, all vapor and liquor lines, mountings and pump equipment.

CAUSTICIZERS

H. G. 1356-A. Two Causticizers. 14' diameter x 12' high. Shells 3" steel plate with flanged bottoms, internally suspended line baskets 6' x 2' 4". Complete with interior water and steam piping overflow and floating utility pipe.

H. G. 1356-B. Two Causticizers. Same as above, except 13' diameter.

BOILERS

T. P. 301-A. Three 175 H. P. Heine Water Tube Boilers. 150 lbs. pressure.

C. C. 1223. Two 250 H. P. B. & W. Stirling Boilers.

T. P. 890. 265 H. P. Parker Water Tube Boiler. 130 lbs. pressure. Complete with dumping grates, front and doors, etc.

T. P. 492. 400 H. P. Union Water Tube Boiler. 150 lbs. pressure. Equipped with McKenzie Chain Grate Stokers, including full front and fittings, etc.

T. P. 517-C. 400 H. P. Parker Water Tube Boiler. 165 lbs. pressure. Complete with front and fittings.

T. P. 301-G. Three 350 H. P. B. & W. Boilers. 150 lbs. pressure. Ray feed water purifiers and stack 78" diameter x 150' high, included. Can also include LaCledo-Christy Stokers (T. P. 301-H) with these Boilers.



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TECHNICAL PRODUCTS COMPANY, Inc.

Technical Service in Used Equipment

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Railway Exchange Bldg.
Office 3278



SERIOUS WATER PROBLEM FOR BLACK RIVER PAPER PLANTS

River This Year Has Been the Lowest for the Longest Period that Many of the Officials of the Watertown Water Board Can Recall—Manufacturers Estimate that Fully as Much as 33 to 50 Per Cent. of the Work Has Been Stopped in Some of the Mills—If Conditions Are Not Alleviated in Some Way There is Danger of Shut-downs—Knowlton Bros. Employees' Outing.

[FROM OUR REGULAR CORRESPONDENT.]

WATERTOWN, N. Y., August 18, 1919.—Factories along the Black River are facing one of the most serious problems from low water that has arisen in years, according to reports which have been made by manufacturers. The river this year has been the lowest for the longest period that many of the officials of the local water board can recall and is resulting in the decrease of production in some plants while an additional expense is necessary at other mills by the enormous amount of electric power which is supplanting water power.

The present low water period began about ten days ago and as yet the river has shown no signs of rising. All of the factories stretching from Lowville to Dexter are affected and if conditions are not alleviated in some manner, either by rains or being supplied from the streams of the Adirondacks, there is a grave possibility that they may be shut down. Few manufacturers have laid off any of the employees and in places where electric power is not being used to maintain the normal output other duties are being found for them.

Mills Greatly Handicapped

Manufacturers estimate that fully as much as 33 or 50 per cent. of work has been stopped in some mills. The water has been as low in previous years, they say, but not for so long. Usually, Watertown is hard hit when there is an excessive consumption by the mills farther up the stream but this is only temporary and in some cases in a few hours things are running normally again.

The Deferiet mill of the St. Regis Paper Company has been exceptionally hard hit. Here the main ground wood mill is operated and since the present drought the capacity, which usually is from 130 to 150 cords of wood daily, has been cut to from six to eight cords. The Black River plant is also affected but production has not been cut to any great extent, it was stated today.

Knowlton Brothers, manufacturers of high grade colored specialties, are using electric power in place of water power. The output is not decreased it was said by one of the officials. Production at Taggart Brothers mill in Morrison street, has been cut almost in half.

C. E. Phippen, superintendent of the Board of Water, Light and Power, said to day that the condition of the river has been the lowest for the longest time in the thirteen years that he has been connected with the Department of Water Works. He stated that there is no danger of a water famine in the city because of the electrical pumps which have been put into use to meet the emergencies of low water.

Large Water Power Development

Another large water power development is now being undertaken by the Northern New York Utilities, Inc., of this city. A petition filed Saturday with the Public Service Commission, Second District, asks for permission to issue bonds and stock to the aggregate amount of \$573,900, largely for the purpose of purchasing and developing power at Brown's Falls on the Oswegatchie river. The property has just been purchased from the Benson Mines Company, and is located about 12 miles above the Utilities Company's present plant at South Edwards.

The South Edwards plant of the concern is linked up with other hydro electric plants of the company in this city, Black River and Natural Bridge. The plan is to install a transmission line from South Edwards to the new development and harness that to the already extensive system.

Negotiations for the purchase of the Brown's Falls site have been in progress for about a year. The power is now partially developed to about 900 horse power, and this will be developed to the limit. The petition points out that it is for the best interests of the consumers that the property be developed.

The Utilities Company asks authority of the Commission to issue \$430,000 in first and refunding five per cent. bonds, \$18,400 in preferred stock and \$125,000 in common stock for the acquisition of the property and reimbursement of the company's treasury for the cost of a transmission line from South Edwards to Brown's Falls.

It is expected that the authority sought from the Commission will be given soon and the work contemplated hurried to completion.

Knowlton Bros. Outing

Saturday was a gala day for everyone connected with the Kamargo Mills, for it was the occasion of the sixth annual outing of Knowlton Brothers Cooperative Association. The affair was held at Clayton Park with nearly 300 in attendance and was one grand round of pleasure from early morning until late in the evening. It was the most successful of the six outings yet held, and the attendance eclipsed all previous occasions.

All the officers, employees, former employees and their families were a part of the affair. The company not only met the entire expense, but paid the employees full time while the mills were shut down so everybody might attend and celebrate. That this was appreciated was indicated by the large attendance and the carefree demeanor of all. The weather committee got busy early and banished a threatening sky, having the storm postponed until after all were home.

Determining Moisture Content of Wood

The Forest Products Laboratory, Madison, Wis., gives the following directions for determining the moisture content of wood:

1. Select a representative sample or disc of the material.
2. Immediately after sawing, remove all loose splinters and weigh the sample.
3. Put sample in a drying oven at 212° Fahrenheit (100° Centigrade) and dry until constant weight is attained.
4. Re-weigh the sample to obtain the oven dry weight.
5. Express the loss in weight as a percentage of the dry weight, thus:

$$\text{Percentage moisture} = \left(\frac{\text{original oven-dry weight} - \text{weight}}{\text{oven-dry weight}} \right) 100$$

Short pieces of wood dry out much more rapidly than long ones. In order to reduce the time required for drying, therefore, the length of the sample in the direction of the grain should usually be about 1 inch, or not more than to give the sample a volume of from 2 to 24 cubic inches.

It is important that the weight be taken immediately after the sample is cut, for the material is subject to moisture changes on exposure to the air. The degree and rapidity of change are dependent on the moisture content of the piece and the air conditions to which it is exposed.

In order to insure good results, the weights should be corrected to within at least one-half of one per cent.


When placed in the oven for drying, the samples should be open-piled to allow free access of air to each piece.

WE'RE PROUD TO
SAY

One of our staunchest supporters today is a Mill with whom we started in a very small way about two years ago.

We hope to duplicate with other mills, the steady growth we have shown in this particular case.

Fred C. Strype
320 BROADWAY NEW-YORK
DOMESTIC AND EXPORT
PAPER



**Watch This
Name**

It is going to be one of the best known very soon, or we are much mistaken. WHY? Because it is the only high quality bond paper in white and colors that is sold at anywhere near a price that makes it possible for the ordinary user of bond papers to buy it.

And don't forget our Waterford plant that is turning out colored specialties. Our slogan, "Service in Specialties," is well chosen, as we'll be glad to demonstrate at any time.

FRANK GILBERT PAPER CO.
Cohoes, N. Y. Waterford, N. Y.
Representatives, WILLIAM E. EBBETS & SON
501 Fifth Avenue, New York

"Service in Specialties"

**T. F. HART PAPER
COMPANY, Inc.**

Dunkirk, Indiana

MANUFACTURERS OF

ALBANY

REFINED STRAWBOARD

for

TUBES AND CAPS

SINGLE and DOUBLE LINED

PLAIN and COLORED

VAT LINED, MILL AND SHEET LINED
SPECIALTIES, ETC.

Domestic and Export Mill:
Albany, Indiana



*I'm Better Wet
than Dry!*

From down under the foaming tide KVP Vegetable Parchment Paper signals up, I'm

BETTER WET THAN DRY

Secure samples for testing from
Kalamazoo Vegetable Parchment Company
Kalamazoo Michigan
"The World's Model Paper Mill"

NEKOOSA-EDWARDS PLANT STARTED AFTER SHUT-DOWN

Number of Strikers Return to Work and These Assisted by Imported Laborers Enable the Company to Reopen Its Port Edward Mill, Which Has Been Closed for Almost Two Months—Construction Work on the New Plant of the George Diamond Economy Process Company, at De Pere Will Be Started Soon—Excavation Work Is Started on Peshtigo Mill.

[FROM OUR REGULAR CORRESPONDENT.]

APPLETON, Wis., August 19.—With a number of strikers who have returned to work, assisted by imported laborers, the Nekoosa-Edwards Paper Company's mill at Port Edwards was put in operation last week after being closed down for nearly two months because of a strike of the company's 900 employees. Guards are on duty at the plant. Company officials are certain the strike can be broken, and the men are determined to remain out until their demands are granted.

Several weeks ago, when proposals and counter proposals were being made by the strikers and the company, it was supposed that the strike would be speedily settled, but an outbreak of rioting resulted in breaking off of all negotiations, and there is little prospect of the strike ending now unless the workingmen find it necessary to go back to work in order to exist during the coming winter.

Demonstrations are being carried on almost daily by the strikers and their wives, who gather about the homes of men who have returned to work and serenade them. Men who have gone back to work are being heckled constantly, and wives of the strikers, who have organized a society called the Daughters of Democracy, make every effort to render unpleasant the life of returned men and their families. Feeling is growing more intense daily and serious trouble is feared.

Strikers have entered emphatic denial to a report alleged to have been circulated that they are demanding representation on the company's board of directors. They maintain their demands are for recognition of the union, time and one-half for overtime and the right of collective bargaining.

George Dampier, William Leverance and John Ulrich, arrested two weeks ago on a charge of rioting, were dismissed because of a lack of evidence against them. The defense admitted there had been a disturbance at the home of Percy George, a striker who had returned to work, but maintained that the three men arrested had no part in the trouble. Warrants were issued for the arrest on George's allegation that he recognized their voices while they were shouting outside of his house, Mrs. George, who is an invalid, was prostrated as a result of the riot and her condition was serious for several days.

To Start Work on Diamond Process Plant

Actual construction of the new plant for the George Diamond Economy Process Company at DePere will be started within two months, and employment will be given to 150 men in construction work, it was announced by Mr. Diamond last week while at DePere attending a meeting of stockholders, at which the following directors were elected: George Diamond, Samuel Abrahams, New York; Frank Seidman, Grand Rapids, Mich.; C. G. Leonard, Green Bay; M. W. Weber and William E. Unger, Milwaukee; Sylvester Duquaine, Green Bay.

Negotiations are now in progress for disposing of the remainder of the company's stock, which consists of 6,500 shares each of common and preferred stock. An effort is being made to float a large portion of the issue in Green Bay and DePere.

Mrs. A. McCrea, a landscape artist, has started laying out streets and boulevards in the property purchased by the company for its new plant. Plans for the building are being prepared by a well known firm of architects, it was announced.

Start Work on New Peshtigo Mill

Excavation work on the new tissue mill to be erected by Green Bay, Oconto and Peshtigo capitalists at Peshtigo has been started. The new structure will be 70 by 242 feet and two stories high. Plans are now being made for development of Potato Rapids, six miles above Peshtigo for additional water power.

Paper Firm Arranges Community Center

Pursuant to a suggestion made by the Thilmany Pulp and Paper Company, a club of 500 members has been organized at Kaukauna to take over the management of the old Hotel LaSalle, recently purchased by the paper company, and convert it into a community center. The company has agreed to expend from \$15,000 to \$25,000 to prepare the building for use as a community center and to establish a vocational school. A cafe will be installed and recreation rooms will be furnished.

Club members will be asked to pay slight dues, probably not exceeding a dollar a month, to maintain the institution after it is furnished. The paper company agrees to give free use of the building to the organization as long as it is conducted as a community and civic center.

Fire at Plant of Riverside Paper Co.

Loss of \$500 was caused at the plant of the Riverside Fibre and Paper Company when sparks from a torch set fire oily rags and the floor late one afternoon. The fire department extinguished the blaze before it had made much headway.

Recent rains have further increased the levels of the Wisconsin and Fox rivers and paper mills dependent on those streams for water power are able to obtain all the water they need. Reservoirs in northern Wisconsin are well filled and no water shortage is now anticipated.

Lack of Coal Closes Mill

The Gilbert Paper Company's mill at Neenah was closed down for several days last week because of its inability to obtain coal. Part of the Island Paper Company's mill and the Neenah Printing and Carton Company's mill were also obliged to close down. Nearly every mill in Neenah and Menasha faced a shutdown until assistance was received from mills at Appleton which were fairly well supplied with coal. The railroad strike made it impossible to deliver coal to mills dependent entirely on rail transportation. Appleton mills were supplied with coal hauled by barges owned by the newly organized Fox River Navigation Company, composed of paper mill owners. Mills with large stocks offered to assist mills facing shutdowns if the strike was not ended.

General News of the Trade

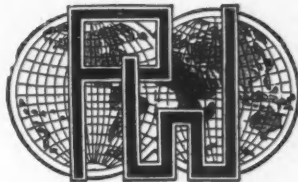
The business of the Gerbrick Paper Company of Neenah and the George Banta Paper Company of Menasha have combined and the new concern will be known as the George Banta Paper Company. W. K. Gerbrick, head of the Gerbrick company, will continue in the new business.

Future pulpwood needs of the Kimberly-Clark Company were provided for last week when the William Bonifas Lumber Company, a subsidiary of the paper company, purchased 20,000 acres of timber land in Gogebic County, Mich., from the Gogebic Lumber Company of Grand Rapids, Mich. The Bonifas company now owns 95,000 acres of timber land in Gogebic and Ontonagon counties in Michigan. The lands are heavily timbered with hemlock, balsam and spruce, but also contain much maple, birch, elm and basswood.

The Gilbert Paper Company of Menasha, has practically completed construction of a new office building and boiler room at its plant. Work was started early in the spring.

Parswhit Perfect Papers Universally Used

Cable Address:
"Parswhit"



Codes:
Lieber's Standard
ABC-5th Edition
ABC-5th Edition Improved
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AMERICAN PAPER**

The world is in need of paper and the American paper mills are in a position to supply it.

As a long established export paper house of American origin, we are prepared and equipped to be your foreign representative. Our agents and salesmen are in many of the large buying centers of the world and thereby keep us in intimate touch with the market condition of the various countries.

Let us help you sell your product and have American made papers universally used

"America First"

PARSONS & WHITEMORE

Incorporated

299 Broadway

New York

FIRMER PRICES FOR PAPER ARE REPORTED FROM CHICAGO

Mills Which Recently Withdrew Prices Have Now Announced New Quotations—National Advertising of Brands of Paper Is Said to Have Led to Much Discrimination Among Printers in Placing Orders—Buyers of Wrapping Paper Are Also Demanding Highest Quality in Making Purchases—Display of Paper and Paper Products at Annual Convention of Manufacturers' and Importers' Association.

[FROM OUR REGULAR CORRESPONDENT.]

CHICAGO, August 18, 1919.—The paper market here continued very firm last week, but no further price changes were recorded. The majority of the mills which withdrew their prices a few weeks ago have now announced their new quotations, which are the prevailing prices in all cases where the mills are in a position to make deliveries within a reasonable period. In other cases, where the mills are oversold and cannot promise delivery before sixty days, the orders are being accepted only in cases where the purchaser agrees to pay the price at the time of delivery. Paper dealers declare that never was there a time when customers, especially the high grade printers, were more discriminating with reference to the quality of the paper they buy. Much of this attitude is believed to be due to the national advertising of brands of paper. Such campaigns have been based on the quality and service of the paper, and printers have come to demand these things first, before they talk price, when they are out to buy the paper for a first class job. To some extent, this quality talk is entering into the wrapping paper business. By no means is it limited to the high grade bond papers and white papers in general. Both mill representatives and paper dealers are convinced that the paper market is certain to be firm for the balance of the year, with a good demand keeping the market sound and steady. However, there is no general prediction of an orgy of price advances such as took place three years ago. The jobbers say they are just as well pleased, for such periods of hysterics are most certainly followed by periods of depression, when the jobbers hear themselves called upon to dispose of high-priced stocks on a slipping market.

Display of Paper and Paper Products

Paper and paper products had a conspicuous place in the lines displayed at the fifteenth annual convention of the Manufacturers' and Importers' Association of America, which was held this week at the Palmer House. Among the paper lines displayed were those of the Milwaukee Lace Paper Company, Gartner & Bender, Herald Paper Box Company, Interstate Tablet Company, Sippel-Tress Company, Tuttle Press Company, and Kawin & Co., Inc. The lines displayed included paper napkins, drapping paper, twine, paper doilies and paper boxes.

General News of the Trade

Charles M. Clark, Chicago city salesman for the Arthur Rapp Company, is the proud father of an 11-pound boy. Mr. Clark declares that he must redouble his efforts to take care of the addition to his family.

W. R. Rapp has just toured here from St. Louis, bringing his family with him, also his father, to spend the balance of the summer here.

The Arthur Rapp Company is now the exclusive Western sales agent of the Nelson Vertical Paper Cutter, Mohawk Valley Paper Company, makers of all grades of tissues, also the S. C. S. Box Company, of Willimantic, Conn. This makes

a total of eight mills for which the Arthur Rapp Company now has the exclusive Western sales, and gives the company a well balanced and varied line of paper and paper products.

W. N. Gillett, of the Chicago Paper Company, secretary of the Western Paper Merchants' Association, has gone to Ludington, Mich., where he is taking a rest at the Methodist summer resort of Ebert Heights. Robert Fay, advertising manager of the company, leaves this week on an extended Western trip to conduct a series of conferences with representatives of "Foldwell Enamel." Mr. Fay will go as far as the Pacific Coast, and will visit all the Western cities.

W. P. McNulty, of the McNulty Paper & Twine Company, has returned from a business trip to Kalamazoo and other Michigan paper points.

W. E. Dwight, of the Dwight Brothers Paper Company, has returned from a business trip to Cincinnati.

Ben Newhouse, manager of the Minneapolis branch of the Seaman Paper Company, was a visitor in the city during the week.

D. A. Nicholson, of the Kimberly-Clark Company, is spending his vacation in Canada.

M. D. McAlpine, of Bradner, Smith & Co., made a trip to the paper mills last week.

Thomas H. Savery, Jr., has issued a circular calling attention to the meeting of the Technical Institute of the Pulp and Paper Industry in connection with the Exhibition of Chemical Industries, to be held in Chicago at the Coliseum and First Regiment Armory during the week of September 24.

Douglas Wray, of the Douglas Wray Paper Company, was awarded first prize in a golf contest held last week by the Chicago Association of Commerce. The prizes were given for the highest efficiency in each division. Mr. Wray played with the foreign trades division.

A. M. Forsythe, of the Forsythe Paper Company, has returned from an out of town business trip.

Louis Dwyer, of the Seaman Paper Company, has returned from a trip among the mills of the Miami Valley.

Ed Topping, of the Pilcher Hamilton Company, has returned to the city after an out of town business trip.

Ellis Jones, of the Kansas City Paper House, was recently a visitor in the city.

Daniel Shields, recently appointed salesman for the McNulty Paper & Twine Co., has returned from a trip through the Northwest.

George Gephide, of the Bardeen Paper Company, Otsego, Mich., has returned home after a visit in this market.

E. U. Kimbark, of the Paper Mills Company, was recently among the paper mills on business.

Tom Willis, of Chatfield & Wood, Cincinnati, was among the out of town visitors during the week.

Edgar French, of the French Paper Company, Niles, Mich., paid a visit to the local trade during the week.

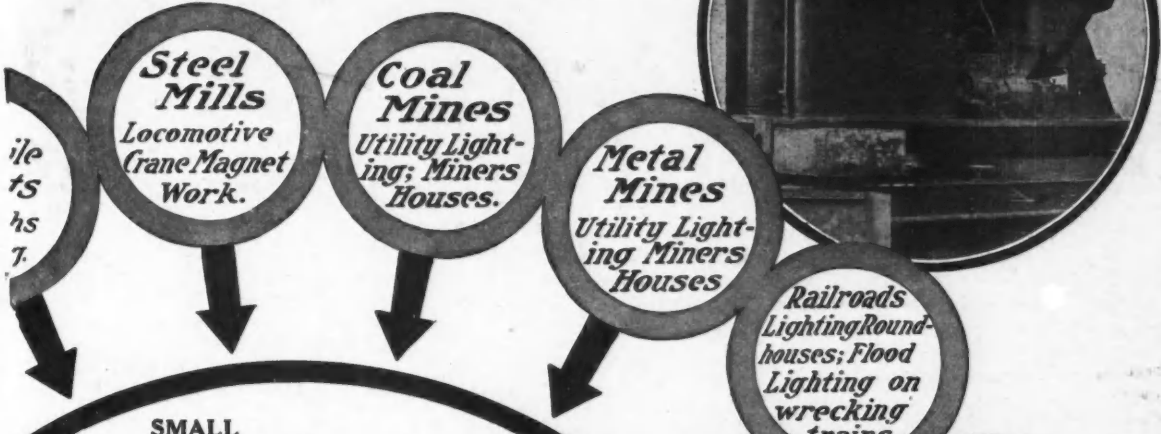
E. A. Julius, advertising manager of the J. W. Butler Paper Company, has returned to the city after a trip among surrounding cities.

Australia Wants Canadian Paper

[FROM OUR REGULAR CORRESPONDENT.]

OTTAWA, Ont., August 19, 1919.—The local newspapers have been carrying an advertisement of the firm of William Lewis, Ltd., manufacturers' agents of Sydney, Australia, urging Canadian manufacturers to send samples of their products and make a bid for Australian trade. Among the principal products desired, the advertisement states, are papers, and board of all descriptions, including writing, book, glazed and coated, issue, carton covers, and news print.

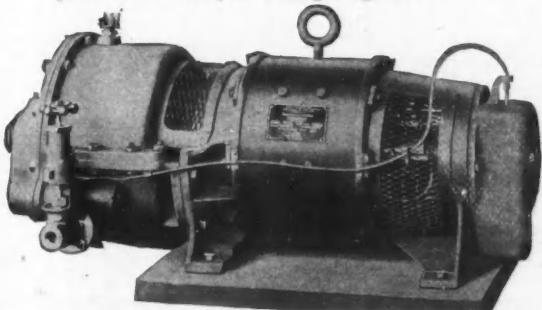
Users—



**SMALL
DIRECT CURRENT
Turbine Generator Units**
1 to 15 kilowatts.



- The picture below shows the complete unit, ready for steam connections.
- Being light and compact, it is specially desirable for portable use.
- When foundations are needed, they are much simpler than required for reciprocating engines.



10 kw.
Direct Current
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densing

- Owing to freedom from reciprocating parts which knock and wear, this unit will operate for long periods with little attention and practically no repairs.
- Specially rugged, simple construction.
- So designed that the replacement of parts can readily be made in the field.

Ask for Leaflet 2000 describing the unit in detail.
Westinghouse Electric & Manufacturing Company,
East Pittsburgh, Pa.
Sales Offices in All Large American Cities

Westinghouse

ACTIVE DEMAND FOR PAPER IS REPORTED FROM TORONTO

All Mills Are Busy and Many Are Behind in Deliveries—Toilet and Tissue Papers Are Especially Active—Spanish River Pulp and Paper Mills Adding New Machines to Their Division at Espanola—Book and Writing Mills Are Doing a Good Business—Cornwall Canal Out of Business—Many Forest Fires Raging in Parry Sound District Do Much Damage.

TORONTO, Ont., August 18, 1919.—There is no seasonable quietness this year with the paper jobber or the manufacturer. All the mills are busy, and in the case of toilet and tissue plants they are running away behind in deliveries. There is a stiff demand for kraft and orders are being placed well ahead in order to ensure deliveries. The prevailing figure in carload lots at the present time is nine cents, both for glazed and unglazed.

It is reported that the paper mill at Camden East, Ont., which was formerly owned by L. F. Houpt, of Buffalo, and is now controlled by the Bathurst Lumber Company, of Bathurst, N. B., will shortly resume operations and turn out kraft. E. S. Crabtree has been appointed manager of the mill and has entered upon his new duties. He was formerly connected with the selling staff of Edwin Crabtree & Sons, of Crabtree Mills, Que., which plant was acquired a couple of years ago by the Howard Smith Paper Mills, Montreal, and is now specializing bond papers.

The demand for news print of all kinds continues brisk and the Spanish River Pulp and Paper Mills, who are adding two machines to their division at Espanola, have completed construction work and are now installing the first machine which was bought from the Pusey-Jones last year. This will add fifty tons a day to the output at Espanola, and when a second new unit is installed and running by February next the company will be producing an additional hundred tons daily of news.

Book and Writing Mills Busy

Book and writing mills are very busy, and also all specialty plants. Prices on every line are firm, and jobbers report that the turnover for the present month has been well in advance of a year ago. It is expected that quotations on a number of lines will increase. All pulpwood companies are preparing to put larger numbers of men in the bush. The wages run fully as high as last year, and while there has been a great deal of talk of reducing living expenses, every thing in the way of provisions is fully as steep and in some instances more so, than a year ago. Then cartage rates have been increased at most points in Ontario, and there are rumors that freight rates will ascend in the near future. Sulphite pulp is in active requisition and contracts are being made by the manufacturers only on a month to month basis. Those paper mills, which do not make their own product in cellulose are boosting prices, according to the advances in raw materials.

Forest Fires Do Much Damage

Many forest fires have been raging in the Parry Sound district owing to the long dry spell. Deer Lake settlement, twenty-three miles from Parry Sound, has been wiped out and settlers have been preserving their lives only by moving from one settlement to another. There are, all told, some eleven hundred fire rangers covering the north country and the past season has been a trying one on them. Bad fires are also reported along the shores of Lake Superior directly above the Canadian Soo. The smoke has been very dense. In the Georgian Bay district and Muskoka, the Ontario Department of Lands, Forests and Mines intend instituting wireless telephones and motor boat patrols and the department now has the whole subject under investigation.

Cornwall Canal Out of Business

The canal at Cornwall has been undergoing extensive repairs owing to an accident which occurred at Lock 17 when the American steamer *Astec* tore off two sets of gates in the locks by reason of the breaking of her bow-line. The water from the upper level, the distance being over a mile, started to rush through, and there was a bad flood in which one boy lost his life and two others had to climb a telegraph pole for safety. The plant of the Toronto Paper Mfg. Co., Cornwall, which is largely dependent on the canal for its power, had to shut down for a few days until repairs were completed.

General Notes

Word has been received from John Martin, of Winnipeg, head of the John Martin Paper Company, of Winnipeg and Calgary, who has been off duty for many months owing to heart trouble, that he has sufficiently recovered to resume his work. Mr. Martin is First Vice President of the Canadian Paper Trade Association.

Good progress is being made on the extensions to the coated paper plant of the Provincial Paper Mills Company at Georgetown. J. S. A. Whealy, of Toronto, has had plans drawn for the erection of a paper bag factory in Toronto which will cost seventy-five thousand dollars. Other local concerns are preparing to make extensions in the near future. The Ross Can Company, of Bowmanville, which recently started the manufacture of fibre and metal cans and containers in that town, has been incorporated with a capital stock of five hundred thousand dollars.

There is great activity in the rag and waste paper stock market at the present time, and a pronounced scarcity of cuttings owing to the high values of materials. Many scraps that were formerly discarded are now used for piecing. Prices are on the increase. E. Pullan, "the waste paper king," of Toronto, who is at present on an extended motor trip throughout the New England states, has started an extensive advertising campaign in the press telling of his services to industrial concerns in reclaiming waste paper, rags and clippings of all kinds.

Paul Buss, son of Charles F. Buss, superintendent of the Mille-Roches plant of the Provincial Paper Mills Company, recently returned from service overseas with the American Engineering Corps. He was engaged for some time in the building of a large dock at Brest, France.

It is understood that the Ontario Pulp and Paper Makers' Safety Association will this fall institute "No Accident Weeks" at several plants with the view to minimizing mishaps as much as possible.

It is expected that the new plant of the Canadian Vegetable Parchment Company, which is being erected in Merriton, Ont., will be in full operation by the end of October. The walls of the main building, which is 80x150 feet, are practically completed, and the output of the company will be eight tons a day. The Canadian Vegetable Parchment Company is capitalized at one hundred thousand dollars and the interests of the Garden City Paper Mills Company, of St. Catharines, are closely associated with the new venture. The equipment being installed is all of the latest type.

The next luncheon of the Toronto Carton Club, which meets semi monthly in Toronto, and holds outside sessions at various points in the province, will take place in London. The paper box manufacturers of that city are preparing to tender a cordial welcome to the visitors. The last outside meeting of the club was held in Galt, at which representatives were present from a number of adjacent points, and matters of mutual interest discussed.

Several representatives from Great Britain, New Zealand and other countries have been in Toronto during the past few days seeking to secure paper for requirements abroad.

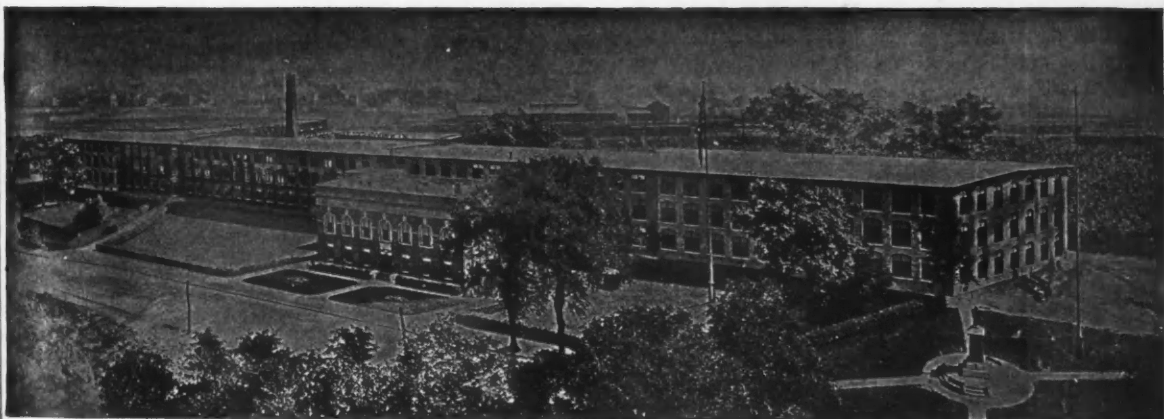
HOWARD BOND

WATERMARKED

Color Brilliant : Strength Wonderful

THE HOWARD PAPER CO.
URBANA, OHIO

F. C. HUYCK & SONS ALBANY, N. Y.



Manufacturers of Kenwood Felts and Jackets for all kinds of Paper and Pulp
Seamless Felts both for high speed machines and fine papers. •

New York Trade Jottings

John L. Seely, of the Crown-Williamette Company, of San Francisco, was among the prominent visitors to the New York trade this week.

Crane & Co., writing paper manufacturers of Dalton, Mass., will soon open a New York office at 280 Broadway. G. W. I. Mulford, will act as New York representative.

R. S. Kellogg, secretary of the News Print Service Bureau, returned to his desk Monday morning from Canada, where he attended the regular quarterly meeting of the bureau.

W. H. Litke and T. S. Stanton, city salesmen of the United Paperboard Company, of 171 Madison avenue, have returned to their desks after a brief vacation spent in Atlantic City.

Stanley A. Morris, who has for some time been a member of the editorial staff of the Paper Trade Journal, has joined the sales forces of the American Paper Mills Corporation of 38 Park Row.

The Caldwell Paper Company has been incorporated with a capital stock of \$20,000, according to a notice from the office of the secretary of state. J. and F. Weider, and B. Meyers of 469 Fifth avenue, are named as incorporators.

The packers of paper stock who went out on strike at all the principal packing houses in New York last week, agreed to an armistice with their employers, and returned to work on Saturday. A meeting, at which a final and definite settlement is hoped to be reached will be held on Wednesday night.

It is reported that Daniel Lewerth, head of the paper house of Lewerth & Culbertson, 72 Duane street, is rapidly getting well and may be back at his desk early in the fall. Mr. Lewerth was ill the greater part of last winter and he is now in the Adirondacks trying to regain his strength.

A. Price Dillons, formerly with the Perkins Goodwin Company, and later with the Wanaque River Paper Company, and J. Alex Cook, formerly with the West Virginia Pulp and Paper Company, and latterly with the Maurice O'Meara Company, have both joined the sales forces of the Majestic Mills Paper Company of 462 Broome street.

The American Paper and Pulp Association is co-operating in the movement which is now going on to conserve the forest resources of the country. Arrangements have been made with the News Print Service Bureau for the printing of a number of copies of a pamphlet entitled, "Pulp Wood Consumption and Wood Pulp Production," and copies of this will be sent to members interested in the statistics contained therein.

Foreign Rags Coming In

Foreign rags will be received in large volumes from France and Belgium, for the next two or three months according to Emanuel Saloman, president of the rag importing concern of A. Saloman, Inc., who has just returned from the other side. Mr. Saloman stated that after the expiration of that period, however, it is unlikely that there will be any large additional production.

In discussing the domestic rag situation, Mr. Saloman declared that he believed that the market was now at its height, and

that prices would not go to much higher levels. He contends that this year the season of activity merely started three months later than usual, and the activity which is usually seen in the spring is only now showing itself in the market. He believes, therefore, that the dull period which usually occurs during the summer will take place this year during the fall and winter, and the market will not become active again until next spring.

In discussing foreign rags, Mr. Saloman said in part:

"It seems likely that large quantities of foreign rags will come forward from France and Belgium for the next two or three months, and after this surplus material has been shipped from the continent, I do not believe that there will be any large additional production.

"The main reason for this is that labor conditions are even more disturbed than they are here, and the cost of living has increased to such an extent that it pays better to make fertilizer out of the rags, than to collect, sort and ship them.

"Prices which were much lower than our market prices on the low grades of rags, during June, have risen to such an extent that today it is impossible to buy in France, Italy or Belgium and ship to this country, for sale to the mills, at a profit."

Canadian Paper and Pulp Exports

MONTREAL, Que., August 18, 1919.—Official returns of Canadian exports of paper, pulp and pulpwood for May, the second month of the fiscal year, show a total value of \$8,418,800, against \$8,407,156 in May last year. Paper gained \$1,410,591, while chemical pulp fell off \$483,464, mechanical pulp, \$76,896 and pulpwood \$828,587. The figures are as follows:

Month of May.	1918.	1919.	Increase or Decrease.
Paper	\$3,727,829	\$5,138,420	+\$1,410,591
Pulp, chemical	2,798,720	2,315,276	—483,464
Pulp, mechanical	433,801	356,905	—76,896
	\$6,960,370	\$7,810,601	+850,231
Pulpwood	1,436,786	608,199	—828,587
	\$8,407,156	\$8,418,800	+\$11,644

For the two months' period there has been a decrease of \$703,863 as compared with the same period last year. Paper gained \$1,883,777, while chemical pulp lost \$1,409,972, mechanical pulp \$343,126 and woodpulp \$834,542, the details showing:

Two Months.	1918.	1919.	Increase or Decrease.
Paper	\$6,884,881	\$8,768,658	+\$1,883,777
Pulp, chemical	4,846,238	3,436,266	—1,409,972
Pulp, mechanical	917,742	574,616	—343,126
	\$12,648,861	\$12,779,540	—\$130,679
Pulpwood	2,071,930	1,237,388	—834,542
	\$14,720,791	\$14,016,928	—\$703,863

The increase in the value of exports of paper taken in connection with the decrease in the value of exports of pulp and pulpwood is indication of the fact that in this industry Canada is increasing its exports of finished products and sending out of the country less raw material to be manufactured abroad.

Goulds Manufacturing Company Opens Detroit Office

DETROIT, Mich., August 18, 1919.—In order to better serve its customers, The Goulds Manufacturing Company of Seneca Falls, manufacturers of pumps for every service, will open on September 1 a district sales office in Detroit, Mich. This office will be located in the Dime Bank building, and will be in charge of E. B. Gould, who has recently returned after eighteen months' service in France.

To Minimize *Trouble* That's the mission of the Bird Screen

There has never been a trouble-proof screen made yet, to our knowledge. There probably never will be.

In designing the Bird Screen we did not expect to eliminate every trouble. That would be impossible. We did propose to reduce to a minimum the paper maker's screen difficulties.

That building of screens has been our principal business. The designers of Bird Screens are men with paper mill experience who are familiar with the good and bad qualities of other screens.

That we have been successful in reducing below any previous point, screen troubles of most kinds is evidenced by the number of Bird Screens in use and the number of mills that are completely equipped.

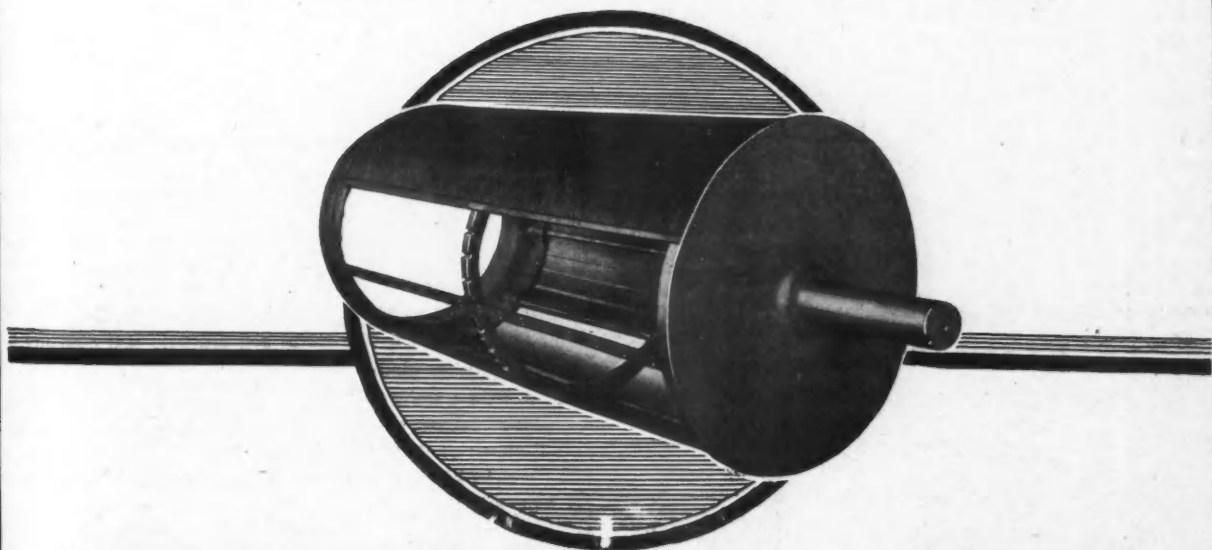
Large capacity of clean stock at low expense is the work of the Bird Screen.

Catalog 1A sent free on request.

BIRD MACHINE CO., East Walpole, Mass.

T. H. Savery, Jr., Western Representative, 1630 Republic Bldg., Chicago, Ill.

88-73



BIRD IN WARD FLOW **ROTARY SCREEN**

Editorial

Vol. LXIX. New York, Thursday, August 21, 1919 No. 8
FORTY-EIGHTH YEAR

Foreign Rags Coming in Again

For the first time since 1915, foreign rags are again being received in large quantities in this country. Upon the outbreak of the great war, shipments of rags from the Central Powers were immediately cut off, and as the war progressed the great need of rags for home consumption soon led most of the Allied powers to place embargoes upon rags of all descriptions. By the end of 1914 and the early part of 1915, the entire supply of foreign rags had been cut off, and practically none were received in this country from that time up until two months ago. The signing of the armistice found most of the European countries with more of the lower grades of rags on their hands than they had need for, and they soon made this fact known to American dealers who immediately entered into negotiations to bring these supplies to this country.

It was some little time before the buyers and sellers, reached terms of sales, and it was not therefore, until two months ago that the first large shipments of foreign rags were received here. The shipments were only of the lowest grades and no new rags were offered in the market.

As a consequence, the domestic market for new rags started booming and prices reached levels never before attained. The old rag market, however, which had been advancing at a rate equal to that of the new rag market, steadied down upon the arrival of foreign rags, and grades which had been advancing at the rate of $\frac{1}{2}$ a cent a pound each week, steadied down and prices became firm. Quotations did not go to lower levels, but they did not advance and the market has been in this state ever since.

Importers believe, however, that no further shipments of foreign rags will be received after the present supply is exhausted. They point out that labor conditions on the other side are in such a bad condition that foreigners can not afford to offer rags at prices that will compete with American quotations. They state that shipments that are being received now are only surplus stocks which foreign packers have had on hand, and they are being sold only because their owners are willing to stand a loss in order to move them. It is believed that these supplies will continue to come in for the next two or three months, and after that time it is thought unlikely that any further shipments will arrive. As soon as these shipments stop, it is believed that the domestic market for old rags will become firmer and quotations on the lower grades will advance as they did before these shipments were first received.

Making Industry Safe

Some of the most important problems before American industry today, such as the anticipation of labor unrest, increasing plant efficiency and production, decreasing manufacturing costs and the whole subject of labor management, will be discussed

in connection with the general subject of accident prevention at the Eighth Annual Safety Congress of the National Safety Council in Cleveland, October 1 to 4.

The great bulk of the accident prevention talent of the country—160 scheduled speakers and approximately 3,000 men and women who direct the safety work of the nation's greatest industries—will come together for a four-day exchange of ideas and experiences. The Council has adopted the following slogan for the congress:

"We have fought to make the world safe for Democracy; let us now work to make industry safe for Humanity."

Among other important work of the organization a nationwide campaign to make the street and the home as safe for the workman and his family as is his factory will be launched at this convention. Though not generally known, it is a fact that from two to three times as many fatal accidents occur in American homes, streets, and roads each year as in the industries of the country.

As the death or incapacitation of a skilled workman has the same detrimental effect on industry whether the accident occurs in the shop, on the street, or in the home, the National Safety Council now considers itself almost as vitally interested in public safety as in industrial accident prevention.

During the nineteen months of our participation in the war with Germany 50,150 American boys died in battle or as a result of wounds received in action. During that same period back here in peaceful America approximately 126,000 men, women and children lost their lives in accidents. Of this number almost two-thirds were killed in accidents outside of industrial plants. Any movement to change this condition of things certainly deserves the hearty support of every one in the paper industry.

Materials Mean Money

Seeing is believing.

Things are more interesting than words.

On that principle the telephone officials in Philadelphia got together a collection of two dozen small common articles used by employees in great quantities every day for telephone construction, arranged them on a board, and put the price under each for display to employees. It proved so interesting that photographs were made and the picture published in the *Telephone News* and other telephone journals, with this statement:

"Material means money—this display indicates that the supplies used for telephone construction work are quite as susceptible to warrant advances as the shoes and clothing we wear and other things today—the man who learns and practices real economy is earning money for himself."

Some of the materials shown in this way were: Solder, 35 cents per pound; oakum, 19 cents per pound; paraffine, 6 cents per pound; plaster of Paris, $1\frac{1}{2}$ cents per pound; small screws, 2 cents each; various kinds of wire, from 8 cents per pound to $1\frac{1}{4}$ cents per foot; stearic acid, 38 cents per pound; adhesive tape, 20 cents per pound; various small articles of copper, brass and other metals, from 3 to 20 cents each, 20 to 80 cents per thousand, 7 to 21 cents per pound.

There is a wide interest in thrift all through American business

today, and careful use of materials and tools is encouraged not only by practical object lessons of this sort, but also by the payment of substantial bonuses to employees who effect economies. Some concerns pay bonuses and prizes in War Savings Stamps, so that money saved for the employer by his workers is shared with the latter. As such bonus money is really extra income, a double thrift purpose is served by investing bonuses in interest-bearing Saving Stamps, and the bonus thus becomes a permanent gain; whereas, if not paid in the form of War Savings Stamps, it might be thoughtlessly spent.

Re-Employment Bureau Makes Appeal

NEW YORK, August 16, 1919.

Editor, PAPER TRADE JOURNAL:—

We wish to call your careful attention to a situation in which you can be of material assistance.

The Re-Employment Bureau of New York City, 505 Pearl Street, has completed its first three months' operation with a record of nearly 12,000 successfully placed soldiers, sailors and marines. With this excellent record behind it, the Bureau now faces the contingency of an increasing demand for its services—from 500 to 800 men are applying for jobs daily—without sufficient funds to continue operation beyond the end of another week. The Welfare Organizations have generously contributed more than \$50,000 to the support of the Bureau, but their funds for this purpose are nearly exhausted. Unless new sources of revenue are found at once, the Bureau will be compelled very shortly to disband its organization, close its doors and leave the returning service men to their own devices in seeking a livelihood.

This, all agree, would be a great mistake.

To prevent it and to allow the Bureau to continue its excellent work for employers as well as service men, seventy-five thousand dollars are needed. Funds are being solicited through the 80 employers' organizations co-operating with the Re-Employment Bureau. Gifts of any denomination are acceptable. Checks should be sent to:

Alfred L. Smith, Executive Secretary,
Re-Employment Committee of New York City,
233 Broadway, New York City.

Your aid in giving this matter general publicity is earnestly requested and will be greatly appreciated.

Very truly yours,

A. L. SMITH, Secretary,
Employers' Council for Soldier Re-Employment.

Accurate Cost Methods Needed

H. A. Dickie, secretary of the Label Manufacturers National Association, the Folding Box Manufacturers' National Association, and the Association of Color Lithographers, has sent the following letter to members of these organizations:

In the face of all governmental efforts being made to reduce the cost of food and other necessities, indications point to a still further advance in the costs of materials affecting our industries before the peak may be expected to be reached and a turn made.

The paper market has been and is growing stronger with increasing demands for nearly all grades. Most of the mills are receiving orders in excess of capacity. Some have withdrawn prices, some are accepting orders only on the basis of prices that prevail at the time of shipment. The export demand is increasing. Speculative purchasing however should be avoided. If all of the manufacturers began to lay in large stocks the natural result would be to still further increase prices. In due time a recession may be expected such as that experienced after the signing of the armistice. It will be well then not to have large stocks on hand. We should all avoid doing anything that would tend to falsely stimulate and

increase prices. A conservative general policy would be to buy as needed and to decline to book orders for our production on any other basis than that of immediate shipment.

It is believed that coal will work still higher because of increased wages, prospective increased cost of transportation and decreased production. This probability should be considered in calculating power costs.

The attitude of labor toward the present situation should be carefully watched. Any further advances if made must in all prudence be figured into costs despite all efforts being made to keep prices down.

There has never been a time when the making of estimates required more careful thought. Our duty to ourselves, our suppliers and stockholders demands that we make an adequate and reasonable profit above current costs, whatever they may be. Our duty to our customers and the public demands that we strive only for that which is reasonable. Fortunately in view of the prevailing sentiment, although unfortunately perhaps in the light of the traditions of these industries, the charge of profiteering cannot lie against the label printer, the folding box manufacturers, the lithographer. The lack of control over any element of the material employed, the means of production or even over the finished product, coupled with our time-honored competitive practices which have not yet been "modernized," make profiteering a phrase quite devoid of significance in these particular industries.

But in the interest of safety and stability we must make sure that all costs are properly covered. This involves a most careful study of all the factors which enter into costs, a careful scrutiny of all standard rates, a revision of these rates whenever any basic change in cost is made and the introduction of accurate methods on the part of all those who do not already have them.

Our part as manufacturers and managers is to avoid speculative buying, to take business on the basis of immediate or at least early delivery, to see that our estimating schedules are in exact accord with the revised actual operating expenses and to take every step that we possibly can to increase the efficiency of our operations.

A new coal bin, capable of holding several thousand tons of coal, has just been completed by the Fox River Paper Company of Appleton. The bin is enclosed by concrete walls 15 feet high.

Officials of the Oneida Paper Company at Stevens Point have petitioned for a reduction of \$200,000 in the assessment of the company's property, which was valued by the assessor at \$750,000. George K. Mead and T. W. Brazzean told the board of review that the assessment of the power house of \$441,000 was \$200,000 too high because only three of the six generators are in operation and much of the power generated is lost because there is no place in Stevens Point to use it.

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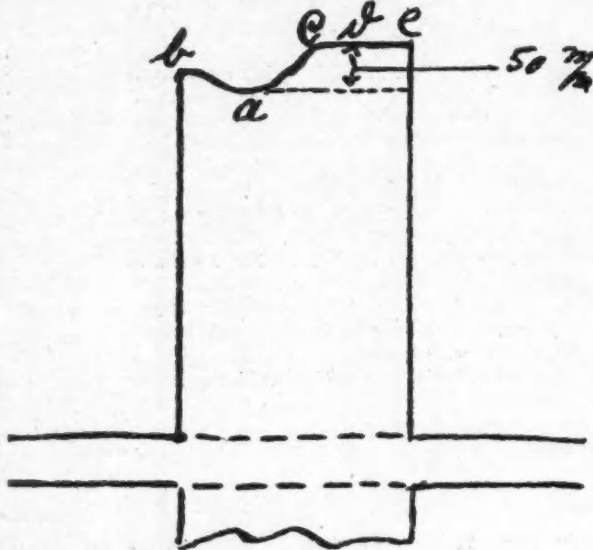
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TECHNICAL SECTION

CAUSES OF THE UNEQUAL WEAR OF GRINDING STONES

SPECIALLY TRANSLATED FOR THE PAPER TRADE JOURNAL FROM DER PAPIER-FABRIKANT.

A short time ago I had occasion to observe in a board mill the wearing away of the grinding stones. Although my experience in this line qualifies me as an expert, yet I have not observed such an uneven effect of wearing. The working surface of the stone had the appearance of the sketch presented herewith.



The stone had run four months and had become eroded or worn as follows:

How the Stone Was Worn

From *e* to *c* the wear was normal; from *c* to *a* it began to deepen rapidly, reaching its maximum point at *d*, corresponding to 50 mm. ($\frac{1}{2}$ inch). From *a* to *b* begins a slight elevation, by which the left corner is very much worn. After a careful examination of this stone I could not resist the impression that the only cause here was unskillful handling. It was noteworthy, however, that the true explanation was difficult. It was said at the mill that three stones had been changed for the same cause. Two of these stones I was able to examine; the third had been sold as a Kollergang stone. Accurate measurements were now taken both of the stones which had been removed and of the stone in operation. With slight variations the wear of all three stones was the same. The grade of hardness on the whole working surface of two stones was uniform, only the working stone showed a somewhat softer place at *a*. On this ground it might be inferred the wear must correspond to the force exerted, although the running stone was softer where the greatest wear appeared. But since the wear on all stones was the same, the softer place on one stone could not be the cause of the wear on the other two. It thus appeared that the object of the investigations was related to other things. First of all the action of the water spray seemed worthy of attention.

Output of the Stone Studied

The owner of the mill had already informed me that the stone

—it concerned kraft pulp—sometimes produced large quantities, at other times scarcely any pulp. The output of the stone was now studied, and it was found that a backflow of water was considerable where the stone was hollow. The result showed that where the hollow place was noted the expenditure of force or power was much greater than in other places. The running of the stone was stopped to investigate this effect further. A few minutes' stoppage made it clear that the stone from *a* to *b* and on the opposite side as far as *c* was absolutely clean, while the same surface from *c* to *e* was clogged with dirt. The spray tubes were next investigated, and it was found that the tubes only gave out water where the stone was hollow. The spray nozzles from below upwards were completely choked. The result was that the water, inasmuch as it sprayed the stone freely at *a*, kept this portion of the stone clean, while the pores of the stone were dirty where there was no flow of water. From this it was evident why the stone did its work in such irregular fashion.

The wear of the stone proceeded as follows: Where the stone was freely sprayed with water it was always clean, and therefore the friction and grinding power were very intense, by which the wear on the stone is also caused. The dirty surfaces could not be worn, as the stone failed to work in these places. Although the spray tubes were cleaned every day, they continued choked from below upwards. The water for pulping was taken from the river without a preliminary process of filtration, so that a great many impurities collected in the pipes.

Condition of the Pipes

In cleaning the pipes, the brush or scraper removed the dirt from the forward part of the tube, and the wiper pushed it through the pipe, and as the wiper in its motion packed the impurities in the back of the pipe, it became more and more clogged with dirt, so that the onward flow of water was stopped. When the pipes were taken out it was found that some were clogged to more than one-half their length. As soon as the pipes were thoroughly cleaned the flow of water reached its original force. The fault was one that the workman might have discovered in scraping the stone.

Another Case

Another case should be mentioned in which the fault was not irregular spraying, but uneven scraping of the stone. Two wooden scrapers with 18-inch blades were used. One of the stones showed a beautifully even and polished surface, but the other was worn hollow, and it was especially significant that the hollow spaces were not uniform over the entire surface of the stone, but over about two-thirds of its periphery. This stone had soft surfaces. As it was almost new, it should have been cleaned by means of a roll scraper. But it was rendered useless by the workman's method of removing the dirt with a hammer.

Paper Mill for Knoxville Delayed

KNOXVILLE, Tenn., August 16, 1919.—Some hitch has occurred in the negotiations for the proposed paper mill to be established in or near Knoxville by the Methodist Book Publishing Concern and the consummation of the project is now said to be indefinite because of an enforced delay.

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St. Louis, Mo.Morse Engineering Co., Chemical Bldg.



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HISTORY OF PAPER PRICES DURING THE WAR

WRITTEN BY W. A. AVERILL FOR THE WAR INDUSTRIES BOARD.

(Continued from last week.)

The price curves of wrapping paper are typical of all paper made. They show the level at normal from January, 1913, to December, 1915, the rapid rise through 1916, the high level from January to May, 1917, the sudden drop from June to December, 1917, and the second rise in 1918. In the case of wrapping papers, the demands of other business created a rising market, and throughout the six-year period under consideration, the rule that "prices mean orders and orders mean prices" holds good. The rapidly rising market of 1916 soon produced an oversupply, however, and in the lull which followed the entry of the United States into the war in May, 1917, orders dropped off, and prices immediately declined. The continued absence of orders caused further reductions of price, and the entire situation furnished a most excellent example of the principle of self-adjustment. While prices were rising, customers were eager to buy and buy heavily before prices rose still higher. The high level was maintained for five months in 1917. Then when the decline once began, the buyers naturally held off in the expectation of still lower prices, until business picked up in January, 1918.

The character and direction of wrapping-paper price fluctuations agree with those of other papers, but the degree of these fluctuations is extreme. Wrapping paper appears to furnish an illustration of the tendency of commodities made from cheap materials to soar in price to unusual heights and to drop with equal rapidity whenever the movement is well inaugurated in either direction.

Writing Paper

The most notable exception to the general trend of prices among the groups of considerable production is that of writing paper termed by the trade "fine writings." The price tablets and curve shows that instead of rising rapidly during 1916 to 200 and 250 per cent of the 1913-14 normal, as did wrappings, boards, and some news print and book papers, writing papers advanced in price only 166 per cent by the end of 1916. This relatively low level held through 1917 and until May, 1918, when a rise began which doubled the original price in August and reached 213 per cent in December, 1918. The higher grades of fine writings and bonds were less violent in price changes, for the reason that high prices result in curtailed consumption or the use of lower-priced papers. The low grades showed a greater increase in price than the better qualities.

Writing papers are produced to the extent of 382,879 tons annually, or something less than 6 per cent of the total of 6,500,000. In value, estimated on "war prices" they amount to over \$140,000,000, or nearly 20 per cent of the approximate war value of \$850,000,000 for all papers.

The price curve of writing paper with its moderately high level maintained throughout 1917 and 1918 is typical also of cover papers the distinguishing feature being the absence of the sharp depression from June to December, 1917. This feature is ascribed to the fact that most expensive raw materials entered into the manufacture of fine writings and covers and that the cost of these ingredients did not permit any reduction in price. Further, the writing and cover paper products, relatively high-pricer among the papers in normal times, did not offer any such possibilities for speculating as was the case with papers of cheaper grade, which once started upward often soared to disproportionate heights.

The following tables show prices of writing papers and by the typical rags and pulp used in their manufacture, for the period 1915 to 1918.

It is noticeable that the relatively moderate rise of high-grade writing papers was less than that of all commodities during 1916

and 1917. It was not until the close of 1918 that these prices reached those of all commodities.

PRICES PER HUNDREDWEIGHT OF WRITING PAPER AND WRITING-PAPER RAGS AND PULP, 1915-1918.

	Ledger paper.	Bond.	Flat writing.	No. 1 white shirt cuttings.	Thirds and blues, extra rags.	Bleached pulp.	
						Contract.	Spot.
1915:							
January.....	\$16.00	\$12.00	\$9.00	\$5.75	\$2.00	\$2.50	\$3.00
April.....	16.00	12.00	9.00	5.75	1.85	2.50	3.00
July.....	16.00	12.00	9.00	5.75	1.85	2.50	2.90
October.....	16.00	12.00	9.00	6.25	1.95	2.60	2.95
1916:							
January.....	16.80	13.20	9.90	6.87	2.33	2.60	3.25
April.....	22.40	18.00	13.50	9.06	4.63	2.60	3.50
July.....	22.40	18.00	13.50	9.99	3.60	2.60	4.75
October.....	22.40	18.00	13.50	8.50	3.62	2.60	7.25
1917:							
January.....	22.00	18.00	13.50	9.61	3.30	6.00	8.00
April.....	22.00	18.00	13.50	10.33	3.30	6.00	7.75
July.....	22.00	18.00	13.50	9.31	2.71	6.00	5.75
October.....	22.00	18.00	13.50	9.65	2.97	6.00	5.75
1918:							
January.....	22.00	18.00	13.50	11.05	3.08	5.50	5.25
April.....	23.00	19.00	14.50	11.99	3.13	5.50	5.50
July.....	27.25	22.00	17.50	14.27	4.73	6.00	6.00
October.....	27.25	24.00	22.00	15.17	5.30	6.00	8.00

¹ Prices for 1913-14 were practically the same as those of January, 1915.

Blotting Paper

Blotter paper furnishes an interesting example of a kind of paper which did not attain such a high price as the other grades, though the relatively small amount produced—only one five-hundredth of the total tonnage—renders this variation quite insignificant.

The chief consumers of blotting paper are the large insurance companies who use blotters for advertising and distribute them

(Continued on page 46.)

COLLINS MANUFACTURING COMPANY

SAMUEL R. WHITING, Pres. and Treas.

Manufacturers of
LOFT DRIED PAPERS
LEDGERS
BONDS
WRITING PAPERS

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Main office:

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and

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50 tons of wood fibre

represents a product prepared entirely under our own supervision for the special needs of our customers.

We solicit your business.

The Parker-Young Co.

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BOSTON,

MASS.

HISTORY OF PAPER PRICES DURING THE WAR

(Continued from page 44.)

Wrapping Paper

gratuitously. When the price of the blotting paper began to rise in common with other grades, these large consumers simply stopped buying and giving away blotters, with the result that prices rose only moderately. Until 1916, the price of white and colored blotting paper was the same. At that point, "regular colors" rose above white grades, and blue was particularly high.

Cartons

While the subject of this bulletin is paper as manufactured at the mill, and space does not permit the presentation of the prices of the many paper products mentioned in the first pages, it is interest-

Table with columns: From, To, Average price per 1,000, Relative price. Rows include dates from January 1914 to May 1918.

ing to note the following table of prices of a standard one-pound coffee carton, that the fluctuations are somewhat greater than for paper in general.

WHOLESALE PRICES OF PAPER, BY MONTHS, QUARTERS, AND YEARS, 1914-1918.

Large table showing wholesale prices of paper by months, quarters, and years from 1914 to 1918. Columns include Board and Wrapping categories with various sub-types and prices.

Conclusion

So far as prices are concerned, the paper industry passed through two crises during the world war, one in 1917 and the other in 1918. In 1916 the effect of the war in Europe was to cut off importations of pulp and dyes. The attraction of higher wages in munition factories and elsewhere made the labor problem one of difficulty for the paper manufacturer. The greatly increased demand for paper of all sorts brought about the auction market of 1916 and early 1917 already described and shown in the tables and graphs for that time. Then overproduction and heavy buying resulted in the great slump of 1917, from which the industry recovered nearly a year after the entry of the United States into the war. Again, an auction market caused prices to rise under the unprecedented demands of domestic consumption with the situation rendered more acute by reason of fuel shortage, freight congestion, and the diversion of several important materials essential to paper to the manufacture of more necessary war commodities. With many supplies actually scarce and threatening to become unobtainable, the solution of the problem was undertaken by the paper and pulp division of the War Industries Board. A campaign of economy and prevention of waste in the use of paper throughout the country was inaugurated with the result that the reduced production was enabled to hold

(Continued on page 48.)

WHOLESALE PRICES OF PAPER, BY MONTHS, QUARTERS, AND YEARS, 1916-1918.

Large table showing wholesale prices of paper by months, quarters, and years from 1916 to 1918. Columns include Board and Wrapping categories with various sub-types and prices.



CLAY

THERE is no need to go abroad for **CLAY**. Our enormous capacity can safely take care of your requirements. All through the war, paper mills were served to their entire satisfaction by our five plants, both as regards deliveries and **QUALITY**.

Our reserve stocks are the largest in America.

Our experience in clay washing is longer by many years than that of our nearest competitor.

Our clay is positively the lowest in percentage of grit and moisture of **ANY** clay, domestic or foreign. When you contract with us for shipments you can depend upon prompt deliveries whether the season is rainy or dry.

**300
TONS
DAILY**

**"AMERICAN MADE FOR
AMERICAN TRADE"**

is our slogan. It should also be **YOURS**.

Miner-Edgar Company

30 Church St.,
New York

**FROM
MINE
TO
MILL**

**American
MADE For
American Trade**

HISTORY OF PAPER PRICES DURING THE WAR

(Continued from page 46.)

its own with consumption demands. This situation was suddenly relieved by the signing of the armistice in November, 1918, and the close of the year left paper prices at the second high level reached by different grades from July to December. Thus at the termination of the six-year period covered by this bulletin, paper prices are practically double the normal of 1913 and 1914, awaiting the verdict of the inventories of January, 1919, with buyers "holding off, waiting for prices to break."

Commodity Weights

The following table presents the weights used in constructing the index number for the price of all papers:

Table with 4 columns: Kind of paper, 1917 production, 1917 imports, Total. Rows include Newsprint, Boards, Book, Wrapping, Writing, Building, Tissue, Blotting, and Other.

Vulcanized Papers

Vulcanized papers, as they are found on the market, are com-

posed in large part of rag fibre pulp, and only rarely is the raw material of cellulose. The best quality of vulcanized papers are of American origin. Examined under the microscope, when the process of vulcanization has not proceeded too far, these papers reveal only rag fibres, or in some particular manner, cotton, with a little hemp or linen.

The paper is always prepared on a round machine with a metallic wire. In addition, a chemical solution is prepared, formed of chloride of zinc. This is spread on the different layers, or stands, at the moment when the paper sheet is being formed on the cylinder. This solution causes the single layers, or strands, to adhere to each other and compose together the vulcanization.

It is impossible to report the different details in this place; the operation of the process being a secret of the few mills which make the product. It is certain, however, that European mills have not yet been able to manufacture a product equal to the American.

Vulcanized papers come to us still in a humid state, laid with the vulcanizing substance under powerful pressure; that is to say, pressed between steel plates or plates of brass, or similar material, and then allowed to dry.

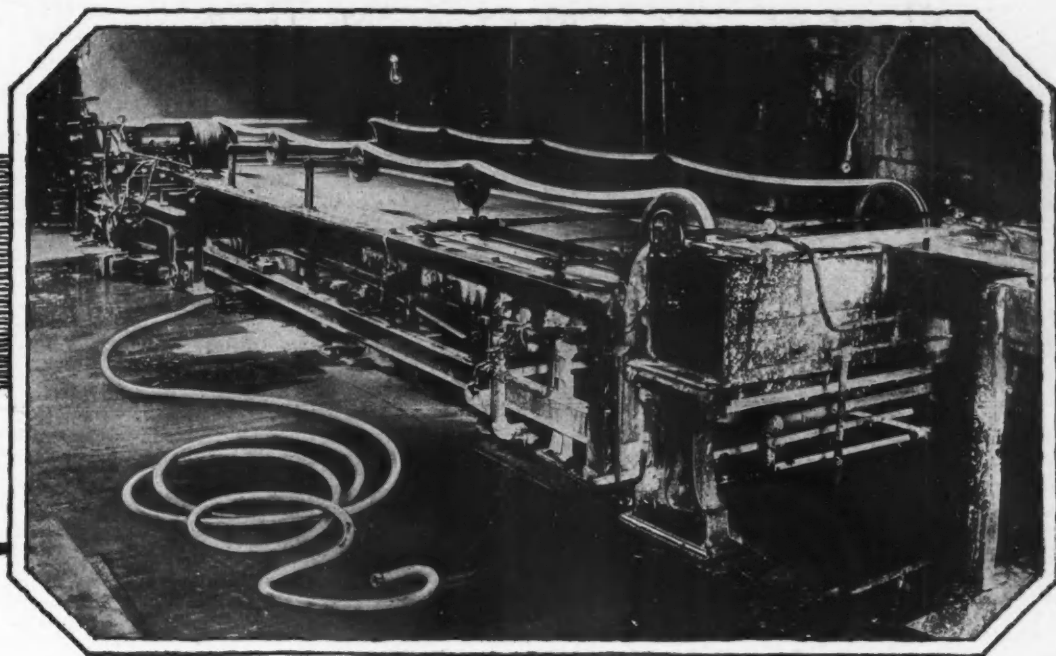
Papers of this kind, when dry, may be made with figures, designs, writings, etc., and thus marked serve for printing cards, pasteboards and similar grades.—(Industria della Carta.)

WHOLESALE PRICES OF PAPER, BY MONTHS, QUARTERS, AND YEARS, 1913-1915.

Large table showing wholesale prices of paper from 1913 to 1915. Columns include Market, Unit, Base price, and various paper types like Newsprint, Book, Machine finish, Sized and super-calendered, and Plain cover.

WHOLESALE PRICES OF PAPER, BY MONTHS, QUARTERS, AND YEARS, 1916-1918.

Large table showing wholesale prices of paper from 1916 to 1918. Columns include Market, Unit, Base price, and various paper types like Newsprint, Book, Machine finish, Sized and super-calendered, and Plain cover.



YOU WANT HOSE around your Mill that delivers at one end just the same amount of water or steam that went into it at the other end!

You cannot afford to purchase a cheap brand that cracks and kinks under ordinary usage.

For over forty years Goodrich has specialized in the manufacture of Hose for every purpose. Our "COMMANDER" Water Hose stands the hardest usage, no cracks or kinks with this brand. "TRITON," "CASCADE" and "DELUGE" are regular grades for all general purposes.

Notice in the photo above the trim set of the Goodrich Deckle Strap. This strap has a reputation wherever good paper is made. Write for the special catalog of Goodrich Rubber Goods for the Paper Mill Industry. It will interest you.

The extra strip of rubber on TOP of Goodrich De Luxe Truck Tires gives greater protection to trucks bearing heavy rolls of paper.

THE B. F. GOODRICH RUBBER COMPANY
The City of Goodrich—AKRON, OHIO

GOODRICH
RUBBER GOODS *for the*
PAPER MILL INDUSTRY

Obituary

Reuben F. Buckwalter

[FROM OUR REGULAR CORRESPONDENT.]

PHILADELPHIA, Pa., August 18, 1919.—When there was laid to rest last week Reuben F. Buckwalter from his home 2405 Oxford street, Philadelphia, there passed from the Quaker City trade the last surviving paper dealer in business before the Civil War. Mr. Buckwalter died at his summer home in Medary avenue, Oak Lane, at almost four score and ten years of age.

He was born at Trappe, Montgomery County, Pa., on December 28, 1820, the descendant of a family noted for longevity. As a boy he was employed by Rimby & Lawrence, 507 Miner, now Ludlow street, and very early in life entered the firm which then became the Rimby & Lawrence Company. On the death of Mr. Lawrence the firm name was changed to J. Rimby & Co., and subsequently to R. F. Buckwalter. In 1870 he sold his business to Joseph G. Ditman and retired from active business life. In the wholesale paper trade in which Mr. Buckwalter was engaged, he was contemporaneous with such firms as Theodore Megargee & Co.; Megargee Bros.; the Southworth Company and many other firms, some now mere memories, others still active in the trade.

In the early life Mr. Buckwalter married Miss Maria F. Tyson of Lower Providence, Montgomery County.

Philbrick Company to Incorporate

SALEM, Mass., August 18, 1919.—Following negotiations of several weeks one of the largest transactions in years in the mercantile section of Salem will be consummated whereby the wholesale and retail paint, paper and paper bag business conducted for more than 25 years by the late Leroy Batchelder Philbrick at 75 Washington street, Salem, is to be taken over in a few weeks by a company financed by a group of well known men in Salem and vicinity who will continue the business at the present location under the name of the L. B. Philbrick Company.

The officers and directors of the new company which has been formed with an authorized capital stock of \$50,000, are Albert W. Batchelder of Salem, president; William W. Jenks of Lynn, vice president; John F. Kuster of Salem, secretary, and Edmund G. Sullivan of Salem, at present secretary of the Salem Chamber of Commerce, treasurer. These four men with Silas Boyes of Salem, Geo. G. Allen of Arlington, a former employer of Mr. Sullivan, and Robin Damon of Salem, constitute the board of directors of seven men of the new L. B. Philbrick Company, which also includes among its stockholders, a number of other well known men in this section.

It is reported that all of the employes of the late L. B. Philbrick, several, of whom were generously remembered by substantial cash legacies in his will, are to stay with the new company and will also have the privilege of becoming stockholders.

WHOLESALE PRICES OF PAPER, BY MONTHS, QUARTERS, AND YEARS, 1913-1914.

Market	Paper						Pulp					Mixed paper stock
	Writing		Blotting	Tissue	Build-	Ground	Sulphite		Soda	Pa.		
	East. No. 1	East. No. 4	White	Manilla	Red resin sized sheet		Wood	Unbleached, domestic	Blanch'd, domestic		Domestic	
Unit	Cwt.	Cwt.	Cwt.	Cwt.	Ton.	Ton.	Cwt.	Cwt.	Cwt.	Cwt.		
Base price	\$1.00	\$4.75	\$4.75	\$3.10	\$22.75	\$21.10	\$2.94	\$2.19	\$2.19	\$2.40		
1913-Year	18.00	4.75	4.75	3.10	23.20	21.50	2.90	2.15	2.15	2.35		
Quarters												
First	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
Second	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
Third	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
Fourth	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
Months												
January	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
February	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
March	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
April	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
May	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
June	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
July	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
August	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
September	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
October	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
November	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
December	18.00	4.75	4.75	3.10	23.50	21.75	2.90	2.15	2.15	2.35		
1914-Year	18.25	4.85	4.85	3.21	22.00	20.37	2.13	2.90	2.90	3.25		
Quarters												
First	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
Second	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
Third	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
Fourth	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
Months												
January	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
February	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
March	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
April	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
May	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
June	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
July	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
August	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
September	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
October	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
November	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
December	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		

WHOLESALE PRICES OF PAPER, BY MONTHS, QUARTERS, AND YEARS, 1914-1915.

Market	Paper						Pulp					Mixed paper stock
	Writing		Blotting	Tissue	Build-	Ground	Sulphite		Soda	Pa.		
	East. No. 1	East. No. 4	White	Manilla	Red resin sized sheet		Wood	Unbleached, domestic	Blanch'd, domestic		Domestic	
Unit	Cwt.	Cwt.	Cwt.	Cwt.	Ton.	Ton.	Cwt.	Cwt.	Cwt.	Cwt.		
Base price	\$1.00	\$4.75	\$4.75	\$3.10	\$22.75	\$21.10	\$2.94	\$2.19	\$2.19	\$2.40		
1914-Year	18.25	4.85	4.85	3.21	22.00	20.37	2.13	2.90	2.90	3.25		
Quarters												
First	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
Second	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
Third	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
Fourth	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
Months												
January	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
February	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
March	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
April	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
May	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
June	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
July	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
August	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
September	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
October	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
November	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
December	18.00	4.75	4.75	3.20	22.50	21.00	2.00	2.10	2.10	2.40		
1915-Year	18.50	4.95	4.95	3.31	21.00	19.37	2.03	2.90	2.90	3.35		
Quarters												
First	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
Second	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
Third	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
Fourth	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
Months												
January	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
February	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
March	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
April	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
May	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
June	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
July	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
August	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
September	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
October	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
November	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		
December	18.25	4.85	4.85	3.21	21.50	19.87	2.00	2.10	2.10	2.40		

MUNISING PAPER COMPANY
MUNISING MICHIGAN
 MANUFACTURERS OF



COLOR QUALITY AND UNIFORMITY
HAVE MADE FOR IT
AN ENVIABLE REPUTATION

The Sandy Hill Iron
& Brass Works
 Hudson Falls, N. Y.



Manufacturers of **Paper and Pulp**
Mill Machinery

of sev-
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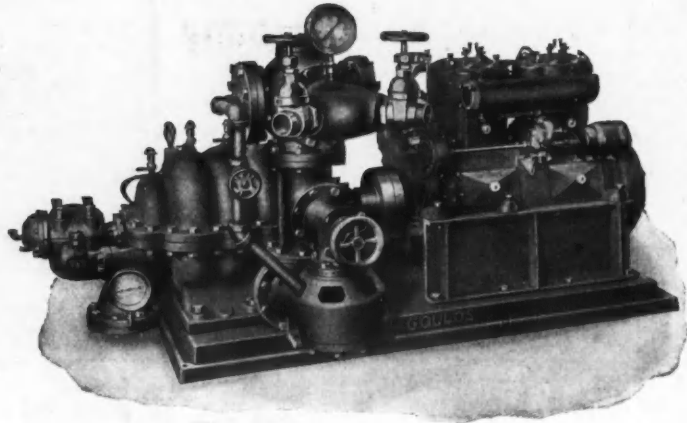
B. Phil-
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 ompany

1916-1918.

Mixed paper stock.

Pa.	Cwt.
00	5744
00	4137
00	5837
00	5837
00	7163
00	3720
00	3270
00	4720
00	6350
00	6050
00	5110
00	5510
00	5922
00	6100
00	6540
00	7140
00	7810
00	7060
00	8210
00	7730
00	6240
00	5000
00	8000
00	8280
00	8650
00	8610
00	7910
00	6820
00	6290
00	6090
00	6420
00	6330
00	5950
00	5430
00	6044
00	4574
00	4801
00	6919
00	7880
00	4620
00	4370
00	4682
00	4954
00	4530
00	5148
00	5408
00	6550
00	3900
00	8170
00	8350
00	6940

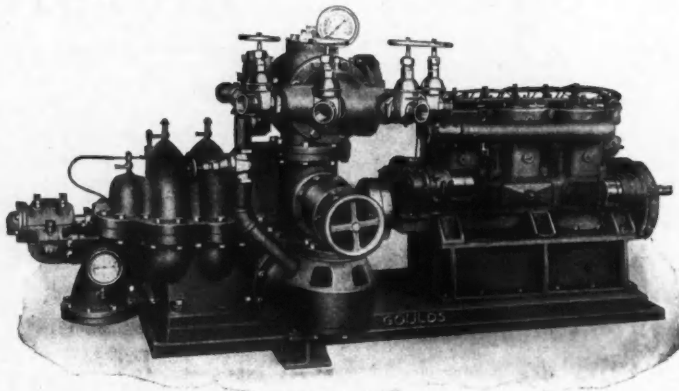
Goulds Fig. 3014 Centrifugal Pump direct connected to Sterling engine for "stand-by" service. Many Goulds outfits similar to this are in use at army cantonments, government buildings, etc., as emergency pumps.



Pumping Outfits for "Stand-By" Service

In case your primary source of power fails a GOULDS CENTRIFUGAL FIRE PUMP driven by a gasoline motor will give you an independent source of power for fire protection.

These outfits can also be furnished without the underwriters fittings for general pumping services. They can be furnished with or without electric self starters as desired.



Goulds Fig. 3014 Centrifugal Pump Direct Connected to Van Blerck Engine for "Standby" Service.

THE GOULDS MANUFACTURING COMPANY

Seneca Falls, N. Y.

New York Boston Chicago Philadelphia Pittsburgh Atlanta Houston
 16 Murray St. 58 Pearl St. 12-14 S. Clinton St. 111 North 3rd St. 636 Henry W. Oliver Bldg. 3rd Nat'l Bank Bldg. 1001 Carter Bldg.

The Union Sulphur Company

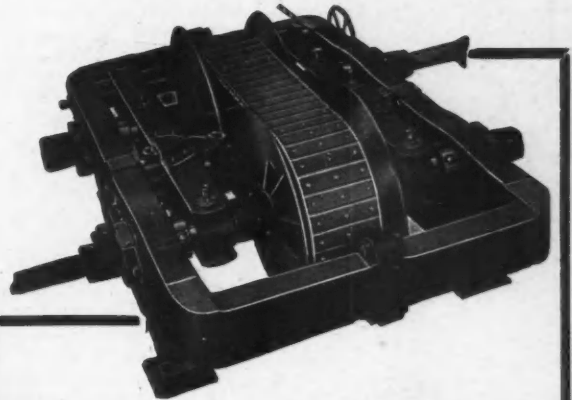
Producers of the Highest Grade
Brimstone on the Market

ABSOLUTELY FREE FROM ARSENIC OR SELENIUM

The Largest Sulphur Mine in the World

CALCASIEU PARISH, LOUISIANA

Main Offices: Whitehall Bldg., 17 Battery Place, New York



Why handicap yourself in getting only two or three set speed variations on your slitters, winders, rewinders, etc., when you can get almost instantly any speed desired with

The Reeves

**VARIABLE SPEED
TRANSMISSION**

It will double and sometimes treble the output of your mill without any additional overhead expense. Don't you think it is time you were investigating?

There is hardly a single Transmission sold but what brings in several reorders. The superintendent is always amazed at its simplicity of operation and ability to increase his production.

INVESTIGATE NOW.

REEVES PULLEY CO. Columbus, Indiana
Chicago Branch: Cor. Clinton and Monroe Sts.

L. H. BOGART, Sec'y

H. L. BARGER, Treas.

W. M. PRINGLE & CO., INC.

Howard and Crosby Streets
NEW YORK

Manufacturers and Exporters of

PAPER

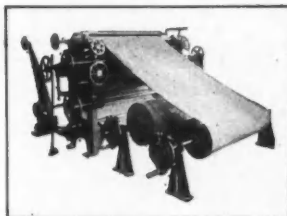
TO THE JOBBING TRADES ONLY

Samuel M. Langston Company

CAMDEN, N. J., U. S. A.

Paper Slitting and Rewinding Machines

Machines for cutting and rewinding rolls of paper. We build all width machines to handle any weight or thickness paper and any size rolls.



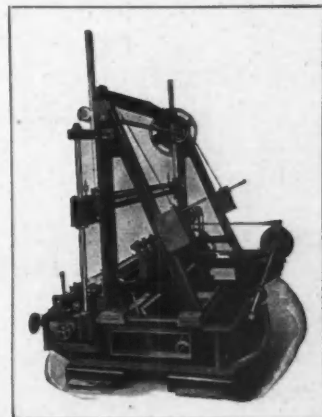
Corrugated Paper Shipping Case Machinery

We build all the machinery necessary to make paper shipping boxes or cases such as are now replacing wooden boxes in the United States.

*Our time and experience
are at your disposal.*

WE HAVE THE MACHINES—

HAVE YOU THE INCLINATION?





In its swift, smooth gliding over the pulleys of this highly efficient Power Plant, Test Special Rubber Belting typifies inherent strength and dependability.

THE BELT FOR ENDURING SERVICE

On drives of the hardest kind everywhere—in Saw Mills, Paper Mills, Cement Plants, Machine Shops, Textile Mills, etc., Test Special Rubber Belting not only is performing faithful service, but is standing guard against costly shut-downs and delays.

The friction surface affords the strongest pulley grip. The extreme flexibility permits the running over small pulleys at high speeds. The plies of cotton duck—of great tensile strength—are inseparably united by a tenacious rubber friction.

**TEST SPECIAL RUBBER BELTING IS
MADE TO SERVE YOU WELL**

The New York Belting & Packing Co.

MAKERS OF BELTING SINCE 1846

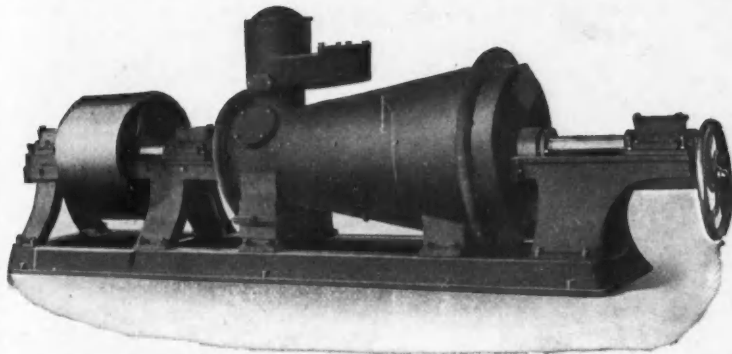
BOSTON
CHICAGO

NEW YORK
PHILADELPHIA
PITTSBURGH

ST. LOUIS
SAN FRANCISCO



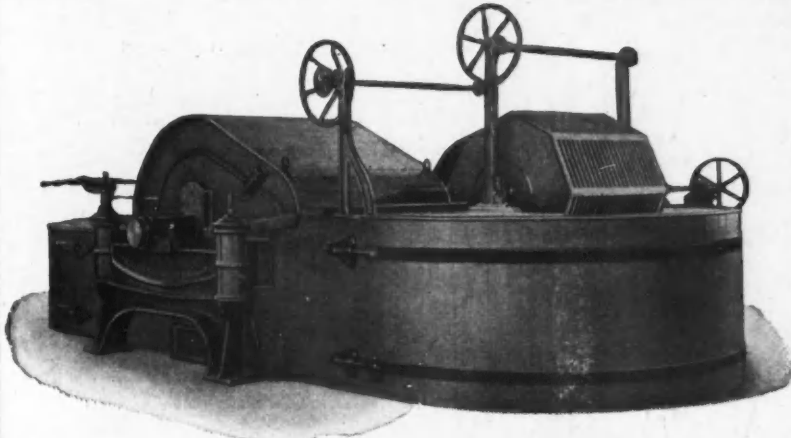
THE DILLON JORDAN



Our latest Improved Machine, three sizes; belt or direct connected motor driven. All Bearings self-oiling, adjustable and water-cooled. Outside stand fitted with gauge to keep the plug central with the shell.

For full particulars apply to

DILLON MACHINE CO., Inc.
 Builders of Paper Mill Machinery
 Lawrence, Mass.



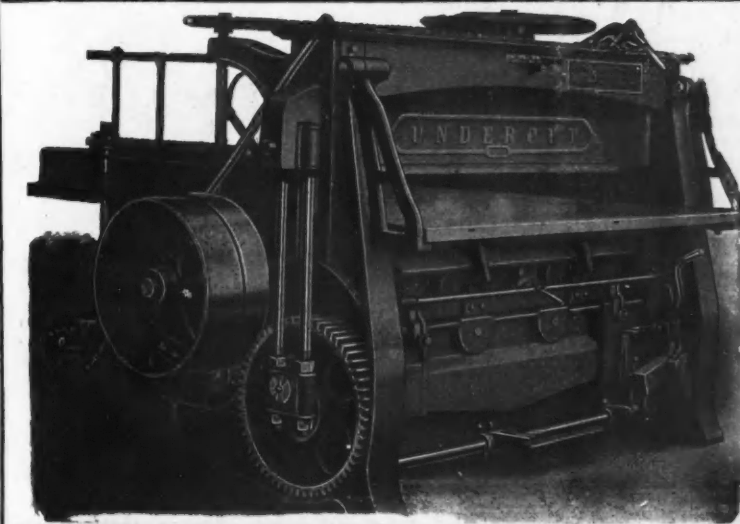
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 Machines**

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Pulp Machinery

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 Downingtown, Pa.



The Undercut Trimmer

The Paper Mill Cutter, combining the highest degree of accuracy, speed and simplicity for the most exact trimming.

The clamping power of the Undercut is not equalled by any other cutter, and assures absolute accuracy in trimming. The safety in operating an Undercut is a very important fact to be considered, as well as simplicity of design and construction carried out in the best manner and workmanship possible.

The speed of the Undercut is such that more cuts can be utilized in the working of our machine than in the high-speed cutters, which not only consume power, but wear out rapidly.

Our Power Back Gauge Drive enables the operator to handle material quickly, easily, and more in quantity than can be secured in the use of other machines.

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Every Caldwell Cypress Tank is designed and constructed according to approved engineering principles by men who have been building tanks for over thirty years.

Avoid breaks and leaks. Install a Caldwell Cypress—"The Tank With A Reputation"—and be sure of a dependable water supply every day in the year.

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Paper manufacturers generally recognize the value of **starch** in the manufacture and coating of paper.

To obtain definite results in any desired direction in the preparation of paper, not merely a difference of grade, but a difference of kind or variety of **starch** is required.

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Mills and Sales Office:

NOBLE AND WEST STREETS, BROOKLYN, NEW YORK CITY

New York Market Review

Office of the PAPER TRADE JOURNAL,
WEDNESDAY, AUGUST 20, 1919.

The New York market is rapidly reaching a state in which all quotations are becoming purely nominal, and jobbers are becoming unable to fill orders at any price. Mills are all running to capacity, and for the most part, they have all booked business far in advance and can accept no business at present. All sales are being made by jobbers, subject to mill acceptance, and consumers desiring to obtain immediate deliveries on stock, are being forced, in some cases to pay high premiums. Settlement of the railroad strike in New England, has made the movement of paper from mills in that district considerably easier, and more paper is now reaching the New York market from that source.

There continues to be a strong demand for paper from export sources, but the strong domestic demand for paper has made it difficult for exporters to obtain the stock to fill these orders. Shipments involving fairly large tonnages are being made to all parts of the world, however, and in the event that the domestic demand falls off to any great extent, mills will probably be able to dispose of their entire output in the foreign markets.

A strong demand continues for news print. There is little or no news obtainable from mills for spot delivery, and such jobbers as have supplies on hand are demanding high prices for their stock. Publishers continue to demand that mills deliver the maximum tonnage called for in their contracts, and no surplus is being stored at any of the manufacturing points. Quotations have not changed this week, but the tendency of prices is still toward higher levels.

In book paper the situation is but little better. A heavy demand has depleted all surplus stocks, and at present it is very difficult to obtain any grade of book for immediate delivery. Prices have been steady during the week, with a firm upward tendency being shown on the part of all quotations.

A good demand is still in evidence for all fine papers. Prices have been steady on all grades since their advance of last week, but they are still on the upward trend, and it is believed that the high of the market has not yet been reached.

No further advances in coarse paper prices have been reported this week, but the market continues firm with stocks moving under a good demand.

The tissue market has also been very active. All tissues are in good demand, and regular sales and shipments of stock are being made at firm prices.

The board market has been steadier, since the advance in quotations of the past two weeks. Prices have not changed this week, but most mills manufacturing board are oversold, and there is very little stock available.

Ground Wood

The demand for ground wood continues to expand. News print mills are coming into the market regularly for larger supplies of ground wood, and stock is being consumed as fast as it is produced. All signs indicate that the demand for ground wood will increase rather than decrease in the fall, and if water conditions should become unfavorable to production a serious shortage will result. A shortage of stock will naturally result in higher prices, and should such a shortage occur it is believed that quotations will go to higher levels than they ever reached before. At present grinders are quoting \$28 for ground wood in the East, and \$30 is being paid in the West.

Chemical Pulp

All grades of chemical pulp continue in good demand. Kraft in particular is being sought in large quantities, and mills manufacturing this grade report that they are in receipt of a greater number of inquiries than they have received in some time. Sul-

phite is also being sought in good volume, and users are reported to have contracted for the entire output for some months to come. Contracts for bleached sulphite are being made at 55.75@6.00, a figure slightly in advance of the price quoted last week, and sales of bleached sulphite for immediate delivery, are reported to have been made at \$6.25. Other grades of chemical fibers are also in good demand, but have shown no quotable change this week.

Rags

There has been but little change in the condition of the rag market this week. A good demand for all grades continues, and supplies of several grades of new rags are still scarce. Prices are holding firm, but this week there have been no advances. Old rags continue to move under a good demand, but quotations for the lower grades have neither declined nor advanced. Foreign rags are being received in good volumes from the other side, and are being sold to the mills at steady prices. Only the lower grades are being received, however, and no new rags are being brought over.

Old Rope and Bagging

Both the old rope and bagging markets have been active this week. Paper mills have come into the market and purchased stocks with greater freedom, and their urgent need for stock, has made them more willing to pay the prices which dealers are demanding. The roofing mills are buying large quantities of roofing bagging and steady prices are being paid for the roofing grades. No. 1 scrap bagging is also in fairly good demand and dealers are making large shipments of this grade to the mills. In the old rope market mixed strings have been the most active grade, and have been in the best demand. All quotations have held firm throughout the week, and no changes were reported.

Paper Stock

The strike of waste paper packers in New York, which closed down all of the packing houses in the Metropolitan district last week, strengthened the paper stock market considerably, and led to higher prices for several of the grades. Now that the strike has been settled, however, it is believed that the market will soon return to its former state. There is a good demand for all grades of waste-paper and stocks are moving in good volume to the mills. This week flat stock, manilas, and news have been in the best demand, and several grades of each of these are bringing higher prices than they brought a week ago. Shavings also continue in good demand, but have shown no price change over last week.

Twine

The twine market is firm, with all twines being sought in large quantities. Most of the mill's manufacturing twine are out of the market at present, and prices being quoted now are for the most part nominal. That is, mills are accepting business only from those with whom they have been accustomed to do business, and they will take no new business at any price.

Big Sale of Timber Land

[FROM OUR REGULAR CORRESPONDENT.]

SKOWHEGAN, Me., August 18, 1919.—Approximately 15,000 acres of timberland in northern Somerset County, near the Canadian border, has just been sold to George F. Underwood, of Port Edward, N. Y., by the heirs of Sir William V. Van Horne, of Montreal, and the other owners, Herbert S. Holt, of Montreal; James W. Fleming, of Troy, N. Y.; Redfield Proctor, of Troy, N. Y. The heirs are Lucy Adaline Van Horne, of Montreal, widow of Sir William, and Richard Benedict Van Horne and Adaline Van Horne, of Montreal. The price paid is approximately \$190,000, judging from the revenue stamps on the deeds at the Somerset registry. The Great Northern Paper Company owns a large acreage of pulpwood timberland in the vicinity of this plot, and it is thought that the new owner will utilize the timber for pulp-making purposes.

Market Quotations

Paper Company Securities

New York Stock Exchange closing quotations, August 19, 1919:

Table of Paper Company Securities including Stocks and Bonds for American Writing Paper Company, International Paper Company, etc.

Table of Paper products including Bonds, Ledgers, Writing, Extra Superfine, Superfine, Tub Sized, Engine Sized, News-f. o. b. Mill, Rolls, Sheets, Side runs, Book cases, S. & S. C., M. F., Coated and Enamel, Lithograph, Tissues, White, Manila, Kraft, Colored, Anti-Tarnish, Kraft-f. o. b. N. Y., Imported, Screenings, Manila, No. 1 Jute, No. 2 Jute, No. 1 Wood, No. 2 Wood, Butchers', Fibre Papers, Card Middles, Common Bogus, Boards, News, Straw, Chip, Binders Board, Manila Lnd. Chip, Wood Pulp.

Mechanical Pulp

(F. O. B. Pulp Mills.)

No. 1 f. o. b. Mill. 28.00 @ 30.00

Chemical Pulp

(Ex-Dock, New York.)

Sulphite (Foreign) - Bleached 8 @ 8 1/2

Easy Bleaching 5.25 @ 5.50

No. 1 Unbleached 4.75 @ 5.00

No. 2 Unbleached 4.00 @ 4.25

Kraft (Foreign) 4.00 @ 4.50

(Domestic, F. O. B. Mills.)

Sulphate - Bleached 6.50 @ 7.00

Sulphite (Domestic) - Bleached 5.50 @ 6.00

Extra Strong Unbleached 4.75 @ 5.00

Easy Bleaching Sulphite 4.50 @ 5.00

News Sulphite 3.50 @ 3.75

Mitscherlich 5.25 @ 5.50

Kraft (Domestic) - F. O. B. Mill. 4.25 @ 4.50

Soda Bleached, delivered 4.75 @ 5.00

-Dash means nominal.

Domestic Rags

Prices to Mill f. o. b. N. Y.

Shirt Cuttings - New White, No. 1 15 1/2 @ 16 1/2

New White, No. 2 10 @ 10 1/2

Silesias, No. 1 11 @ 11 1/2

Table of Foreign Rags including New White Cottons, Unbleached Cottons, Light Flannellets, New Light Silesias, New Light Oxfords, New Light Prints, New Mixed Cuttings, New Dark Cuttings, No. 1 White Linens, No. 2 White Linens, No. 3 White Lin. 11.00 @ 14.00, No. 4 White Lin. 8.00 @ 10.00, Old Ex. Light Prints 4.25 @ 4.50, Ord. Light Prints 4.25 @ 4.50, Med. Light Prints 4.00 @ 4.25, Dutch Blue Cottons 4.00 @ 4.50, Ger. Blue Cottons nominal, German Blue Linens nominal, Checks and Blues nominal, Dark Cottons 2.50 @ 2.75, Shoppery 2.20 @ 2.40, French Blues 4.50 @ 4.75.

Foreign Rags

Table of Bagging including Gunny No. 1 - Domestic 3.25 @ 3.50, Foreign 3.30 @ 3.40, Bright Bagging 3.00 @ 3.12 1/2, No. 1 Scrap 2.80 @ 3.00, Sound Bagging 2.45 @ 2.55, Wool Tares, light 3.00 @ 3.20, Wool Tares, heavy 3.25 @ 3.35, Manila Ropes - Foreign 5.90 @ 6.10, Domestic 6 @ 6 1/2, New Bur. Cut. 4 1/2 @ 5, Hessian Jute Thrd's 4 @ 5 1/2, Mixed Strings 2.75 @ 3.00.

Twines

Table of Twines including India, No. 6 basis - Dark 24 1/2 @ 26 1/2, Light 27 1/2 @ 29 1/2, B. C., 18 basis 38 @ 40, A. E., Italian, 18 basis 80 @ -, Finished Jute - Dark, 18 basis 32 @ 34, Light, 18 basis 30 @ 32.

Table of Jute Wrapping, Paper Makers' Twine, Sisal Hav, and Old Waste Papers (f. o. b. New York) including Shavings, Hard White, No. 1, Hard White, No. 2.

Table of Soft White, Colored, Flat Stock, Stitchless, Over Issue Mag., Solid Flat Book, Crumpled, Solid Book Ledger, Ledger Stock, No. 1 White News, New B. B. Chips, Manila, New Env. Cut., New Cut, No. 1, Extra No. 1 Old, No. 1 Old, No. 2 Old, Bogus Wrappers, Old Krafts, News, Strictly Overissue, Strictly Folded, No. 1 Mixed Paper, Common Paper.

CHICAGO

[FROM OUR REGULAR CORRESPONDENT.]

Table of Paper products in Chicago including Straw Board, Filled Pulp Board, Paper Mill Price to Jobbers, No. 1 Rag Bond, No. 2 Rag Bond, Sulphite Bond, Cheap Ledger, Superfine Writing, No. 1 Fine Writing, No. 2 Fine Writing, No. 3 Fine Writing, No. 1 M. F. Book, No. 1 S. & S. C. Book, Coated Book, Coated Label, News-Rolls mill, News-Sheets mill, No. 1 Manila, No. 1 Fibre, No. 2 Manila, Butchers' Manila, No. 1 Kraft, No. 2 Kraft, Wood Tag Board, Screenings, Boards, per ton, Plain Chip, Solid News, Manila Lined Chips, Container Liner, Solid Wood Pulp.

PHILADELPHIA

[FROM OUR REGULAR CORRESPONDENT.]

Table of Paper products in Philadelphia including Bonds, Ledgers, Writings, Superfine, Extra Fine, Fine, Fine, No. 2, Fine, No. 3, Book, M. F., Book, S. S. & C., Book, Coated, Coated Lithograph, Label, News, No. 1 Jute Manila, Manila Sul., No. 1, Manila No. 2, Common Bogus, Straw Board, News Board, Chip Board, Wood Pulp Board, Binder Boards, Per ton, Carload lots, Tarred Felts, Regular, Slaters, Best Tarred, 1-ply, Best Tarred, 2-ply, Best Tarred, 3-ply, Roofing Rags, Gunny No. 1 - Foreign, Domestic, Scrap Burlaps, Wool Tares, heavy.

Old Papers

Table of Old Papers including Shavings, No. 1 Hard White, No. 2 Hard White, No. 1 Soft White, No. 2 Soft White, No. 1 Mixed, No. 2 Mixed, Solid Ledger Stock, Writing Paper, No. 1 Books, heavy, No. 2 Books, light, No. 1 New Manila, No. 1 Old Manila, Old Kraft, Overissue News, Old Newspaper, No. 1 Mixed Paper, Common Paper, Straw Board Chip, Binders Bd. Chip.

Rags

Table of Rags including Old White, No. 1, No. 2, Blues, Thirds and Blues, Black Cotton Stockings, Mixed gansies, Lace Curtains, Colored Wiping, Rags, Cotton Quills, Cotton Batt.

(Continued on page 62.)

Imports and Exports of Paper and Paper Stock

NEW YORK, BOSTON, PHILADELPHIA AND OTHER PORTS

NEW YORK IMPORTS

FOR THE WEEK ENDING AUGUST 19, 1919.

SUMMARY.

Wall paper, 18 bls.
Hangings, 19 bls., 1 cs.
Filter paper, 26 cs.
Drawing paper, 3 cs.
Miscellaneous paper, 3 cs., 3 bls., 1,834 tons.

F. L. Kraemar & Co., Tropic, Liverpool, 18 bls. wall paper.
W. H. S. Lloyd & Co., Mississippi, London, 11 bls. paper hangings.
R. F. Lang, Mississippi, London, 8 bls., 1 cs. paper hangings.
Reeve, Angel & Co., Mississippi, London, 26 cs. filter paper, 3 cs. drawing paper.
T. Meadows & Co., France, Havre, 3 cs. paper.
C. A. Johnson, Tropic, Liverpool, 3 bls. paper.
Interstate Pulp & Paper Co., Craigmere, Botwood, 1,834 tons paper.

WOOD PULP.

Tidewater Paper Mills Co., C. A. Jeffrey, Liverpool, N. S., 4,775 bls. ground wood pulp; 477 tons.

CASEIN.

T. M. Duche & Son, Marianna, Buenos Aires, 1,168 bags casein; 70,000 kilos.
Atterbury Bros., Marianna, Buenos Aires, 1,072 bags casein; 64,320 kilos.
Atterbury Bros., Marianna, Buenos Aires, 2,260 bags casein; 113,000 kilos.

RAGS, BAGGINGS.

Guaranty Trust Co., Lapland, Liverpool, 80 bls. rags.
International Banking Corp., M. Arnus, Barcelona, 125 bls. rags.
Equitable Trust Co., Francisco, Hull, 1,321 bls. rags.
Castle, Gottheil & Overton, Francisco, Hull, 325 bls. rags.
F. Bertuch, Francisco, Hull, 267 bls. rags.
Stone Bros., Francisco, Hull, 21 bls. rags.
Atterbury Bros., Francisco, Hull, 142 bls. rags.
E. J. Kellar Co., Maartensdyk, Rotterdam, 206 bls. rags.
Salomon Bros. & Co., Maartensdyk, Rotterdam, 190 bls. rags.
Castle, Gottheil & Overton, Maartensdyk, Rotterdam, 528 bls. rags.
Brown Bros. & Co., Maartensdyk, Rotterdam, 184 bls. rags.
Citizens National Bank, Maartensdyk, Rotterdam, 241 bls. rags.
R. F. Downing & Co., Maartensdyk, Rotterdam, 1,768 bls. rags.
Equitable Trust Co., Rapidan, Leith, 70 bls. rags.
Irving National Bank, Rapidan, Leith, 69 bls. rags.
E. J. Kellar Co., Rapidan, Leith, 33 bls. rags.
Castle, Gottheil & Overton, N. Amsterdam, Rotterdam, 390 bls. rags.
Brown Bros. & Co., N. Amsterdam, Rotterdam, 332 bls. rags.
E. J. Kellar Co., Francisco, Hull, 851 bls. rags.
Union Commercial National Bank, N. Amsterdam, Rotterdam, 432 bls. rags.
R. F. Downing & Co., N. Amsterdam, Rotterdam, 500 bls. rags, 516 bls. bagging.

Castle, Gottheil & Overton, N. Amsterdam, Rotterdam, 452 bls. bagging.
Castle, Gottheil & Overton, Rapidan, Leith, 131 bls. bagging.
Guaranty Trust Co., Lapland, Liverpool, 70 bls. bagging.
E. Butterworth & Co., Francisco, Hull, 84 bls. bagging.
Castle, Gottheil & Overton, Mississippi, London, 7 bls. flax waste.
E. J. Kellar Co., Maartensdyk, Rotterdam, 104 bls. old cottons.
Castle, Gottheil & Overton, Maartensdyk, Rotterdam, 267 bls. paper stock.
Wilkinson Bros. & Co., Maartensdyk, Rotterdam, 72 bls. old fustians, 25 bls. old linens, 384 bls. old wipers, 303 bls. shoppery.
E. J. Kellar Co., Rapidan, Leith, 153 bls. jute waste, 94 bls. flax waste.
Castle, Gottheil & Overton, Rapidan, Leith, 18 bls. flax waste.
D. M. Hicks, Rapidan, Leith, 57 bls. thread waste, 97 bls. old pickers.
E. J. Kellar Co., N. Amsterdam, Rotterdam, 544 bls. old cottons, 178 bls. old fustians.
Equitable Trust Co., Rapidan, Leith, 17 bls. new cuttings.

OLD ROPE.

E. Butterworth & Co., Tropic, Liverpool, 536 bls., 89 coils.
Equitable Trust Co., Francisco, Hull, 206 coils.
International Purchasing Co., Francisco, Hull, 57 coils.
Guaranty Trust Co., Bardic, Liverpool, 60 coils.
I. & J. Hyman, Mississippi, London, 105 bls.
Irving National Bank, Rapidan, Leith, 88 coils.
Bemis Bros. Bag Co., Rapidan, Leith, 80 coils.
E. J. Kellar Co., Francisco, Hull, 206 bls.

Manufacturers Want Metric Measurements

SAN FRANCISCO, August 19, 1919.—Advocating that an advance be made to the simple and logical metric system of weights and measures, manufacturers of the United States and Britannia have rallied to the support of the World Trade Club of San Francisco in their campaign to secure world-wide adoption of metric units.

The Lord Mayor of Manchester, representing one of Britannia's most important industrial cities, is president of the Manchester and District Decimal Association, whose purpose is to secure legislation in favor of the metric system.

The president and founder of the American National Association of Manufacturers, Theodore C. Search, was a staunch advocate of the metric system.

The American National Wholesale Grocers' Association voted overwhelmingly in favor of adoption of metric units.

The American Canners' Association urges adoption of metric units. This sentiment was passed at a convention of 5,000 delegates.

Among the many other important organizations which have been active in advocating meter-liter-gram are: Associated Steel Manufacturers of the United States of America; American Association for the Advancement of Science; American Drug Manufacturers' Association; American Institute of Chemical Engineers; American Pharmaceutical Association; American Institute of Makers of Explosives; National American Association of Retail Druggists; National American Association of Wholesale Druggists; National American Scale Men's Association.

Saving Waste Paper in Canada

[FROM OUR REGULAR CORRESPONDENT.]

OTTAWA, Ont., August 18, 1919.—The importance of saving waste paper is dealt with in an editorial in "Conservation," the bulletin of the Commission of Conservation. It is pointed out that during the war, in many places in Canada, organizations of patriotic workers undertook the collection of waste paper, with a two-fold object, namely, the revenue derived therefrom and relieving the shortage of raw material. It would be difficult to secure an estimate of the value of waste paper collected but it

amounted to many thousands of tons. As a forest conservation measure the work was a tremendous success. Every ton of waste paper sold relieved the forest of supplying raw material to take its place. Eight trees of 9-inch butt are required to make one cord of pulpwood, and one cord of pulpwood makes one ton of pulp.

Dr. C. D. Howe, in reporting on the commission survey of forest regeneration said "The studies of the past summer corroborate the results of the previous summer, namely, that the young balsam and spruce under the cover of the hardwoods grow very slowly. For example, the average 4-inch balsam was found to be 55 years old, the average 8-inch tree, 70 years old and it was 80 years old at 10 inches in diameter breast-high. This deduction is based on the analysis of some 300 trees. The spruce grows even more slowly. At 4 inches in diameter, breast-high, the average tree was found to be 80 years old, at 8 inches in diameter, 120 years old, and at 12 inches in diameter, 165 years old. Thus to supply the raw material for one ton of pulp, it would require eight balsam trees of 75 years' growth or eight spruce trees of 130 years' growth or 600 and 1,040 years respectively, of tree growth.

It is then pointed out in the article that the market price of waste paper is somewhat lower than during the war, but the demand for it is steady and by organized gathering a good revenue might be derived, the drain on the forests partially relieved.

Strathmore Paper Company Makes Improvements

MITTINEAGUE, Mass., August 19, 1919.—The contract for the new construction work by the Strathmore Paper Company has been awarded to Daniel O'Connell's Sons of Holyoke. The contract calls for an expenditure of \$80,000 in addition to the Mittineague plant. The new building will allow 18,000 additional feet of floor space. Work will be started at once and will be completed by December 1.

The plans call for a four-story addition 40 feet by 80 feet. It will be wholly fireproof, with floors of reinforced concrete and steel. One floor will also be added to the present Nos. 1 and 2 machine buildings, making them four stories, and level with the roof of the new building, which will join them. The growing business of the company makes this expansion necessary.

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Our New Prices Surely Will Interest You

**Krafts
Manilas
Tissues**

**Napkins
Toilet Paper
Towels.**

**News
Fibre
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NATIONAL PAPER SUPPLY COMPANY

NOW at Washington Place and Mercer Street, New York

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in obtaining a UNIFORM speed of machinery, and is one of
the most PROFITABLE little devices ever put in a mill. Will
pay for itself in 30 days. Dial 12 in. in diam. Weight, 10 lbs.
The N. P. Bowsher Co., South Bend, Ind.

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PAPER MAKERS' SUPPLIES
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Packed in Steel Drums, air tight, insuring full strength at point of consumption

LIQUID CHLORINE

Pure, anhydrous, in improved and convenient packages.

Soda Ash

48 per cent. and 58 per cent.

Caustic Soda

60 per cent., 70 per cent., 72 per cent., 74 per cent., 76 per cent.; also 78 per cent. Our 78 per cent. Caustic Soda is an article of greater purity than has ever before been produced in a commercial way, analyzing 99.70 Hydrate of Soda

Bicarbonate of Soda

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PHILADELPHIA: Delaware Ave. and Green St. CHARLOTTE, N. C.

Want and For Sale Advertisements

HELP WANTED

WANTED—A good back tender on water finished fibre. Two tour mill. Speed 350 to 400 feet. Address Box 1391, Paper Trade Journal. **tf**

WANTED—Chief Draftsman, experienced in Paper and Pulp Mill machinery. Address, Box 1435, care Paper Trade Journal. **A21**

WANTED—Salesman, experienced in selling Paper and Pulp Mill machinery. Address, Box 1436, care Paper Trade Journal. **A21**

WANTED—Superintendent to take charge of New Mill, specializing in Tissues and Semi-crepe. Must be experienced. Address, Box 1438, care Paper Trade Journal. **A21**

WANTED—First class Beaterman on Box Boards. Good working conditions, pleasant location, new mill and good wages. Address, Box 1459, care Paper Trade Journal. **A28**

WANTED—Machine Tenders, experienced on Roofing Felt. Fifty ton mill, three tours, steady employment. None but reliable men who can produce results need apply. State experience and wages desired. Address, Box 1463, care Paper Trade Journal. **A28**

WANTED—Man to take charge of finishing room and shipping department in small tissue mill. Furnish references and state salary expected in first letter. Address, Box 1464, care Paper Trade Journal. **A21**

TOUR BOSS WANTED—One who understands board machine. Also beaterman wanted on box boards. Address, Box 1465, care Paper Trade Journal. **A28**

WANTED—One machine tender immediately. Cylinder machine rope and jute specialties. Time and one-half for overtime. High wages for right man. Address, Box 1466, care Paper Trade Journal. **tf**

WANTED—Wax foreman for plant making light weight waxed papers. An unusual opportunity is open for a man with ability to develop the manufacturing department. Address, The Crystal Paper Co., Middletown, Ohio.

WANTED—Beater Engineer for one-machine board mill in Ohio, running on combination box board. Married man preferred. Address, Box 1469, care Paper Trade Journal.

WANTED—Man familiar with the manufacture of gummed paper and cloth. Knowledge of waterproofing papers also desirable. Excellent proposition for right man. Negotiations strictly confidential. Address, Box 1470, care Paper Trade Journal. **S29**

WANTED—Competent millwright, by writing mill in Middle West. State experience and wages wanted. Address, Box 1471, care Paper Trade Journal. **A21**

WANTED—Superintendent for twenty-ton Board Mill and ten-ton Ground Wood Mill, manufacturing container board and jute specialties. Reply Roanoke Fire Board Company, Roanoke Rapids, N. C. **A28**

WANTED—A machine tender for wet machines on Binders Board. Good pay, steady employment. American Seat Corporation, 540 Van Alst Ave., Long Island City. **A28**

WANTED

One (1) 96" to 100" face Calender Stack. The Shartle Brothers Machine Co., Middletown, Ohio.

S-4

HELP WANTED

WANTED—A reliable Machine Tender for 120" Fourdrinier Machine on Fibre Papers. Address, Box 1456, care Paper Trade Journal. **A21**

WANTED—Experienced beatermen in mill making colored specialties; three tours. Applicants must be capable men of good experience. Wages, 65c per hour. Address, Box 1488, care Paper Trade Journal. **A21**

WANTED—Experienced cylinder machine tenders in mill making colored specialties; three tours. Applicants must be capable men of good character. Give age, reference and experience. Wages 75c per hour. Address, Box 1489, care Paper Trade Journal. **A21**

LARGE PAPER HOUSE in Chicago wants salesman who has been selling hotels and institutions, for toilet paper and general lines. Liberal proposition to right man. Address, Box 1490, care Paper Trade Journal. **S4**

PAPER HOUSE opening office in Chicago wants high class salesman with large following among consuming manufacturers. Splendid proposition for right man. Address, Box 1491, care Paper Trade Journal. **S4**

WANTED—Boss millwright. Mill located Middle West. Must be able to manage help and get results. Address, Box 1498, care Paper Trade Journal. **A28**

WANTED—Three Sulphite cooks (experienced) for Canadian mill. Address Box 1503, care Paper Trade Journal. **A21**

WANTED—Several Back Tenders and Winder men and one Boss Finisher for mill making Water Finish Papers. Good pay and good living conditions. Address Box 1504, care Paper Trade Journal. **A21**

WANTED—A foreman to look after Acid Plant and 4-20 ton Digesters. The man wanted must understand cooking entirely. The mill is in a very good location. Would prefer a married man. Address applications to Box 1505, care the Paper Trade Journal. **A21**

WANTED—A Beaterman for Container Board Mill. Address Box 1506, care Paper Trade Journal. **S4**

WANTED—First class millwright. State age, experience and rate of wages. Address Box 1507, care Paper Trade Journal. **A21**

WANTED—Two backtenders on book paper; eight hours; 50c per hour. Apply Dill and Collins Co., Richmond and Toga Sts., Philadelphia, Pa.

WANTED—Finisher on book paper; steady work, good pay. Address Box 1508, care Paper Trade Journal. **A21**

WANT A MAN EXPERIENCED in the production of waxing papers, especially tissue, with an intimate knowledge of the physical properties of paper, how produced and sources of supply. Ability to analyze paper samples and locate mill production. Service to include paper inspection, tests and standardization. Technical education required. State qualifications. Address Box 1509, care Paper Trade Journal. **A21**

WANTED—Two Beatermen, cylinder machines. Wages, 49c per hour; two tours. Address Box 1510, care Paper Trade Journal. **A21**

WANTED

First class Paper Mill Machinery Sales Engineer. One who thoroughly understands the business and knows the trade. Reply to Box 1524, care the Paper Trade Journal.

S-4

HELP WANTED

WANTED—Boss Machine Tender for a one machine Harper tissue mill in Pennsylvania. Apply by letter, giving experience, age and wages desired. Address Box 1511, care Paper Trade Journal. **A21**

WANTED—Machine tender for Harper tissue mill, two tours, 55c per hour. Apply by letter, giving experience, age, and whether married or single. Address Box 1512, care Paper Trade Journal. **A21**

WANTED—For Southern Pulp and Paper Mill work, Machinists and Millwrights. Address Box 1513, care Paper Trade Journal. **A21**

MANAGER WANTED for a 90" Cylinder Machine making Container Board and Box Board; also its own Ground Wood. Apply, stating experience and salary desired, to Box 1514, care Paper Trade Journal. **A21**

WANTED—A machine tender and a back tender; long tour. Running Box Board, Middle West. First class men paid for, first class men wanted. Address Box 1515, care Paper Trade Journal. **S4**

WANTED—First class salesman with trade in New York State by an up-State paper house. Fine opportunity for right man. Address Box 1516, care Paper Trade Journal. **A21**

WANTED—Night Superintendent of experience on crepe paper for Towels and Toilet. Also an experienced man on Hudson and Sharp Toilet and Towel Machines. Windsor Locks Paper Mill, Inc., Windsor Locks, Conn. **A28**

PAPER SALESMEN

We desire to secure two alert, ambitious salesmen to sell in New York for a large paper house with extensive stock, preferably with paper sales experience. Answer giving age and experience, also salary or commission expected. Replies will be treated in strictest confidence. Address Box 1496, care Paper Trade Journal. **tf**

WANTED

SUPERINTENDENT AND TOUR BOSSES FOR

An aggressive wrapping and Board Mill. Will pay highest wages for experienced and competent men. Address Box 1485, care Paper Trade Journal. **A-28**

WANTED

MILL SALESMAN ON GREASE-PROOF PAPERS

Must be familiar with the trade in this specialty and able to make good. Apply by letter only. Communications confidential. Address, Box 1487, care Paper Trade Journal. **A-28**

SITUATIONS WANTED

A SUPERINTENDENT having fifteen years' experience on Board, Wrapping, Roofing and Bag Papers, wishes a position as day or night boss. Can furnish good references. Address, Box 1433, care Paper Trade Journal. A24

SUPERINTENDENT wishes position. Have had twenty years experience on all kinds of box boards, mill wrappers and building papers. All around mill man and can get results. Address, Box 1472, care Paper Trade Journal. A28

SALESMAN, married, age thirty, seeks connection preferably with mill or reputable jobbing house in selling or executive capacity. Location no object providing good opportunity and future. Nine years' experience with mills covering all grades pulp, paper, board and specialties. Thoroughly familiar with qualities, grades, values and sources of supply. Have covered entire country several times. Wide acquaintance among trade. Best of credentials. Address, Box 1439, Paper Trade Journal. A28

WANTED—Superintendent now employed open for engagement. Experienced on Book, Writings, Fibre and Tissue Paper. Address, Box 1451, care Paper Trade Journal. A28

SUPERINTENDENT would like to make a change. Experienced on high grade Papers for waxing, Toilet and Manifold. Familiar with all type of machines. Address, Box 1307, care Paper Trade Journal. A21

SUPERINTENDENT open for engagement with mill making Box Board Container or Bristol. One that can get results. Best of references. Address, Box 1474, care Paper Trade Journal. A28

SUPERINTENDENT with eighteen years' practical experience on tissues, all grades wood or stock specializing in all crepe specialties, desires a position. First class on colors, thorough and up-to-date. High grade references furnished if desired. Address, Box 1475, care Paper Trade Journal. A21

SUPERINTENDENT desires to make a change. Ten years experience. Experienced on Bonds, Loft and Machine Dried Bonds, Ledgers, Light Papers and Flat Writing. American credentials. Address, Box 1476, care Paper Trade Journal. A24

WANTED—Position as Superintendent or Tour Boss on cylinder machine. Can get good results. Best of references. Steady, married, reliable and sober. Address, Box 1480, care Paper Trade Journal. A21

SUPERINTENDENT. Mechanical Engineer with 6 years practical experience in operation of ground wood mills, desires to become permanently connected with a reliable concern as superintendent. Address, Box 1481, care Paper Trade Journal. A21

A YOUNG, AGGRESSIVE and responsible sales agency seeks permanent mill connections, particularly with manufacturers of Kraft and Book. Address, Box 1482, care Paper Trade Journal. A21

Your Opportunity

Wanted **TWO FIRST CLASS SALESMEN**. MUST BE ABLE TO SELL PAPER BAGS and TOILET PAPER. One with Headquarters at Chicago and one to travel Eastern Territory. Salary commensurate with your ABILITY. H. Norwood Ewing Co., Woolworth Building, New York City.

SITUATIONS WANTED

POSITION WANTED as Buyer or Assistant, Manager or Assistant, by an A-1 Paperman with fifteen years' experience as Buyer and Manager of Paper Department of Wholesale House. Exceptional executive ability. First class references. Will consider mill connection. Address, Box 1484, care Paper Trade Journal. A28

SUPERINTENDENT—51 years of age; 18 years' experience as Superintendent making Wrappings, Kraft, News, Chips and Test Boards. Will go anywhere. Married. Address, Box 1457, care Paper Trade Journal. A21

WANTED—Position as Superintendent by a thoroughly practical man of varied experience in Rag and Wood Papers. Satisfactory results guaranteed. Can furnish best of references. Address, Geo. I. Walker, 95 Madison Avenue, Holyoke, Mass. A21

EXPERIENCED FOREMAN would like change. Coated papers or Book and Writing Mill. Calenders, finishing end or both. Two years' experience Traveling Salesman. Address, Box 1500, care Paper Trade Journal. A28

WANTED—Position as Mechanical Superintendent, by practical man, experienced in both Construction and Maintenance of paper mills. Correspondence solicited. Satisfactory references furnished. Address Box 1517, care Paper Trade Journal. A21

YOUNG MAN, employed last five years in mill, making Chip, News, Vat Lined Boards, as clerk, desires position with future. High school graduate. Address Box 1518, care Paper Trade Journal. A21

EXPERIENCED WOOD PULP salesman seeks connection with progressive concern with opportunity for development. Address Box 1519, care Paper Trade Journal. A24

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Following Equipment in Good Condition Ready for Immediate Delivery

- 1—Pusey & Jones Pulp Drying Machine with 37 dryers, 48" diam., 68" face.
- 19—Packer Screens, 12-plate, open side, Witham fasteners, 1—Howard Refiner
- 2—Worthington Pumps, 1-8", 1-10" discharge.
- 7—Warren Filters, 10" diam. x 8'.
- 2—Baker & Shavin 84" Chipper & Crusher.
- 2—Vacuum Pumps, Rice, Barton & Fales, 24"x18", used in sulphite mills.
- 1—Mareau Barker.
- 1—Williams Chip Crusher, C No. 4.
- 2—Chip Screens, 6' diam., x 25' long.
- 1—Harrisburg Fleming piston valve steam engine, size 21"x24".
- 1—Eric City Lents Tandem Compound Engine, size 14"x23"x21".
- 2—Ball Steam Engines, 16"x20".
- 2—Ball Steam Engines, 13"x18".
- 3—Ball Steam Engines, 10"x10".
- 1—Buckeye Steam Engine, 8 3/4"x15".
- 2—Coatesville Return Tubular Boilers, 72" diam. x 20'. 145 lbs. allowed.
- 4—Keeler Return Tubular Boilers, 84" diam., 18'. 125 lbs. allowed.
- 1—Otis Elevator, 4 tons. Platform 17'x7'.
- 1—Sturtevant Heating System, 10' blower with steam engine and heating coils.

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175 Richdale Ave. Cambridge, Mass.

SITUATIONS WANTED

WANTED—Position as Beater Engineer by first class beaterman in good board mill. Ten years experience on all grades of board. Address Box 1520, care Paper Trade Journal. A21

POSITION WANTED as Machine Tender; Fourdrinier or Cylinder Tissues. State wages paid. Address Box 1521, care Paper Trade Journal. A28

POSITION as Master Mechanic wanted. Age 40, eighteen years experience in maintaining and installing paper mill machinery. Can furnish good credentials. Address Box 1522, care Paper Trade Journal. A21

GROUND WOOD man desires position as Superintendent or Foreman in charge of pulp manufacturing. Address Box 1523, care Paper Trade Journal. A28

MASTER MECHANIC desires position. Expert on construction and economical maintenance. Fourdriniers or Cylinder machines, making Book, News or any grade of cylinder papers, using water, steam or electrical power. Address A. D. Finlayson, Hartford, Conn. General Delivery. O10

FOR SALE

Plant and property of the Sugar Cane By-Products Company, Inc., located at New Iberia, Louisiana, will be sold at Receiver's Sale on August 23rd, 1919. Property consists of about seventeen acres of land with both rail and water connections—good buildings—Mill (while incomplete) contains luth pulp and paper mill machinery. Eight Digesters 16 ft. by 38 inches, 21 dry rolls, 68 inches, wet machine, etc.

Rice Straw, bagasse and suitable wood can be obtained in abundant supply as raw material. For further particulars address

BURKE & SMITH,

Attorneys for Co-Recipients of Sugar Cane By-Products Company, New Iberia, Louisiana.

FOR SALE

- BEATERS**—One 61"x48". Five Jones, One Downingtown, Two Horne, One 60"x60", Several 72"x44", Two Griffin Beating Engines.
 - RED PLATES**—Creded to diameter of roll.
 - CALENDERS**—One 7 roll stack 72" face, Two 9 roll stack 72" face, One 9 roll 63" face, One 9 roll 84" face.
 - COATERS**—Two 56" Waldron coaters.
 - CUTTERS**—Two 45" Finlay custom newly rebuilt with brand new Hamble expansion pulley drive, 36" Babson cutter, 38" gullotine cutter.
 - CYLINDER MOULDS**—One 30"x54", one 30"x64", both rebuilt, ready for quick shipment. One new 30"x92".
 - DRIVES**—One Reeves No. 4, Class K, one Reeves No. 2, Class K, one Moore & White No. 10.
 - DRYERS**—4 36"x54", 2 36"x62", 1 48"x108", 2 36"x66", 1 36"x76", 1 24"x120", also twenty brand new shells 48"x96" and ten new shells 48"x102".
 - EVENERS**—Two Mellor eveners.
 - JORDANS**—1 Mammoth Jr., several Emerson and Horne type Jordans.
 - MACHINES**—One 2-cylinder machine for 50" trim, 29" dryers. One 72" Harper fourdrinier.
 - PULLEYS**—One 97" dia. 34" face double arm, modern pulley. One set cone pulleys, 40"x31"x85" face. One set cone pulleys, 40"x31"x78" face. Also large stock of iron pulleys, including some cone pulleys for Marshall drives. New wood pulleys with friction clutches.
 - PUMPS**—One dry suction pump single vacuum, 12x22x18 Knowles, one 1,000 gallon Blake tank pump, several 7" and 8" Lawrence Machine Company, Class A, high duty pumps; fan pumps, new steel pumps, single and double.
 - PRESS ROLLS**—Large number of different sizes on hand. Some suitable for rubber covering.
 - ROTARIES**—One 14" Globe, one 84"x23" horizontal in good condition, ready for immediate shipment.
 - REELS**—Two Bagley & Sewall, one two bowl upright, one ten bowl revolving, bowls 48" face. Also several new reels now under construction. State the width you require.
 - RAG CUTTERS**—One Daniels No. 2, 12 1/2" knife; one Rice, Barton & Fales with 12" knife, newly overhauled and ready for quick shipment.
 - SCREENS**—Two 6 plate Success, newly overhauled, 6 Bath centrifugal, 6 Voth centrifugal.
 - WET MACHINES**—One 74", one 72" and one 84".
 - WINDERS**—One 72" single drum, one Manning 74". One stock is constantly changing. Advise us of your wants.
- Mills Machine Company**
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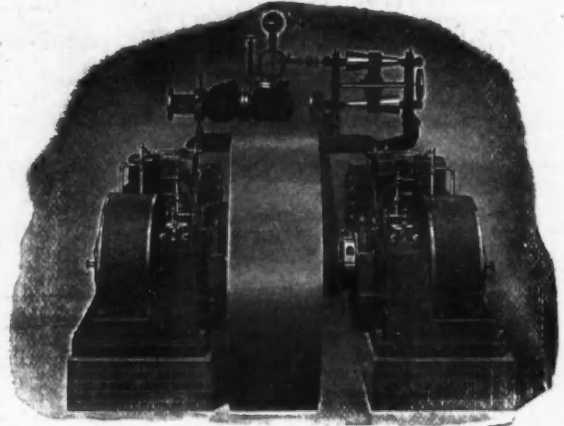
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FOR SALE—Complete paper mill with 13 driers top and bottom, and with heavy Marshall Drive. Also one Binders Board mill complete. James Gaskell, 709 World Bldg., New York. A21

FOR SALE—1 80" "Kidder" slitting and re-winding Machine. The Smith Paper Company, Lee, Mass. A21

MISCELLANEOUS

WANTED—One small Jordan engine. State condition, price and other particulars in first letter. James Gaskell, 709 World Building, New York. A28

SALE OF SULPHUR BY THE UNITED STATES NAVY—There will be sold by sealed proposal 12,000 tons of SULPHUR belonging to the Navy now stored at the plant of E. I. DuPont de Nemours and Company, Barksdale, Wisconsin, where inspection is invited. The sulphur which is in excess of Navy needs is the usual product supplied by the Union Sulphur Company and is in good condition. Bids are invited on all or any portion of the lot. Schedules containing forms of proposal and terms of sale may be obtained upon application to the Naval Inspector of Ordnance, 1628 Edison Building, Chicago, Illinois, or the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C. The sulphur will be loaded on cars at Barksdale without expense to the purchaser. Sale will be for cash to the highest bidder by sealed proposals received up to 10:00 A. M., 28 August, 1919, at the office of the Naval Inspector of Ordnance, 1628 Edison Building, Chicago, Illinois. Bids must be accompanied by certified check or bond covering 10 per cent of the total amount of the bid. Josephus Daniels, Secretary of the Navy.—7-23-19. A21

UP-TO-DATE Construction Engineer and Designer open to overhaul, improve or re-vamp Pulp, Paper or Fibre Mill at low cost. Will go anywhere. Terms reasonable. Address, Box 1494, care Paper Trade Journal. S4

OLD ESTABLISHED FIRM, over 50 years standing, wide connection with the Paper Trade, requires Paper Manufacturer's agency for United Kingdom. Write "G. E. K." care of Streets, 30, Cornhill, London, England. A21

WANTED—A Dryer Cylinder 70" x 30" or over. Windsor Locks Paper Mill, Inc., Windsor Locks, Conn. A28

FOR SALE

Pusey & Jones 90 inch One Drum Winder; good condition. Flower City Tissue Mills Co., Rochester, N. Y. A-21

MISCELLANEOUS

PAPER MACHINERY FOR SALE.

- 6 White Oscillating Screens, with new oscillating device.
- 8 Plates 10 x 24", cut .0014.
- 4 Plates 10 x 24", cut .0018.
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- 2 Holyoke Machine Company Platers, 36" Rolls.
- 1 Fan (Blower) made by B. F. Sturtevant Co. of Boston, Mass., Diam., 72" x 40" wide; 37/16" Bearings 12" long; casing outside dimensions, 42" x 6" x 7' 2". All in good condition. Prices low. Address—Parsons Paper Company, Holyoke, Mass.

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CHAPMAN, C. A., Inc., Paper Mill Architects and Engineers, 28 Jackson Boulevard E., Chicago, Ill.

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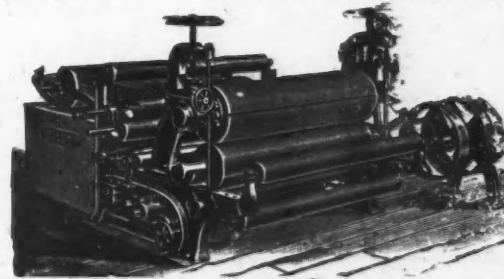
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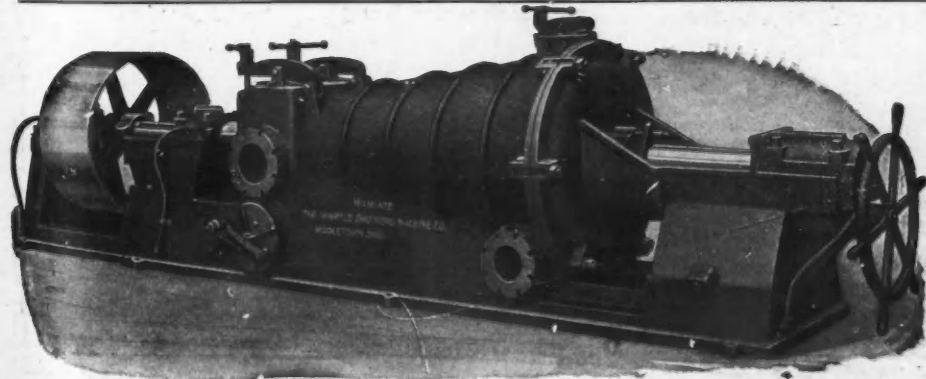
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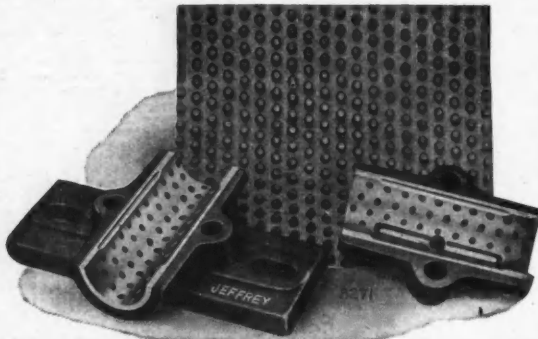
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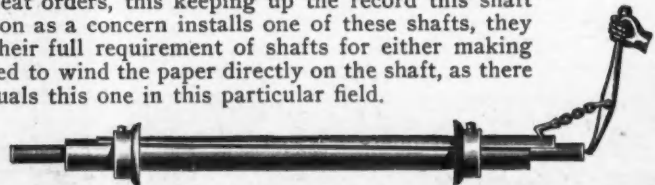
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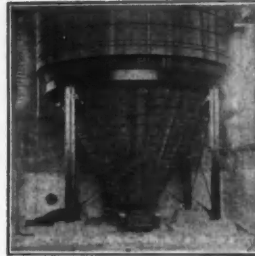
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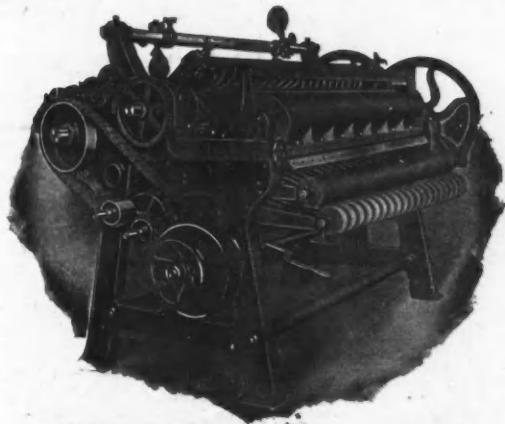
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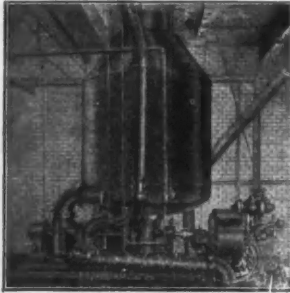
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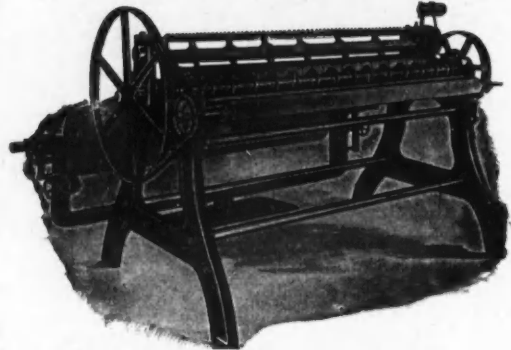
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For making Toilet Paper Rolls with or without perforations



Self-Adjusting—Easy to Operate
WE ALSO MANUFACTURE

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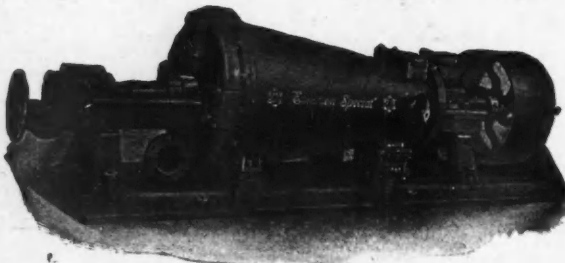
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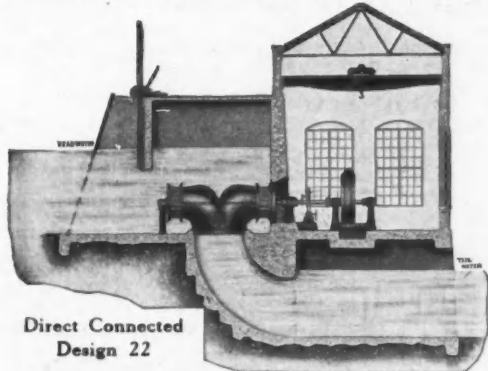
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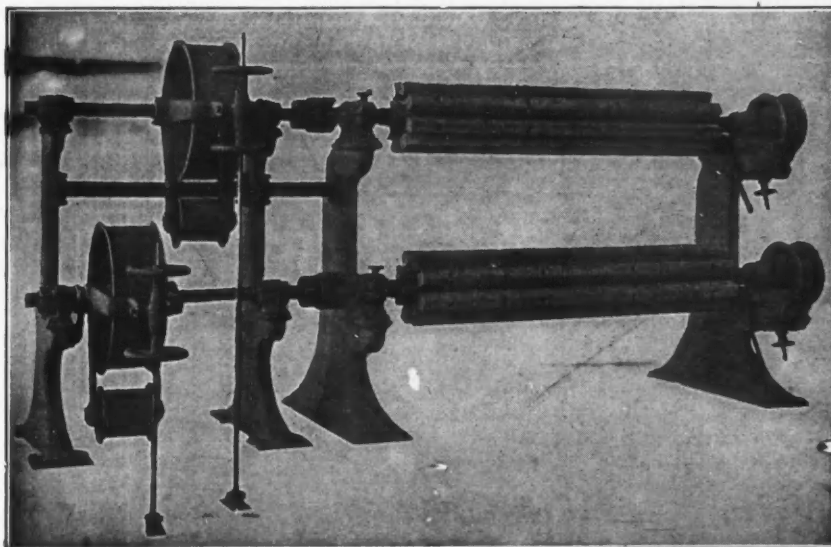
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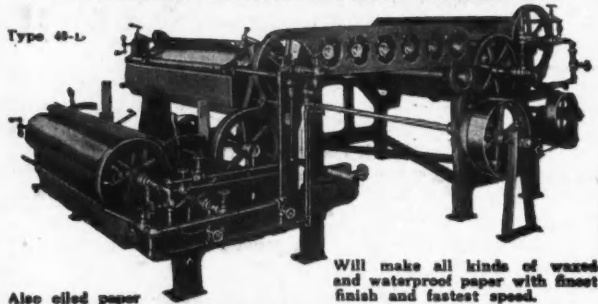
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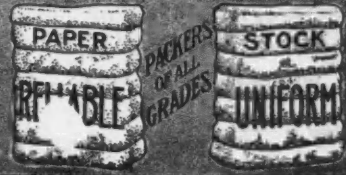
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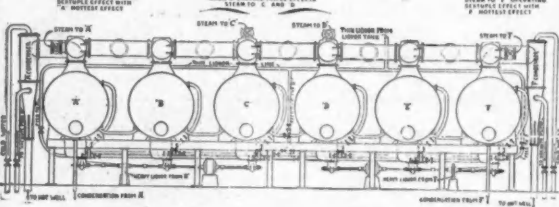
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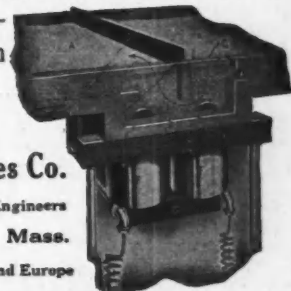
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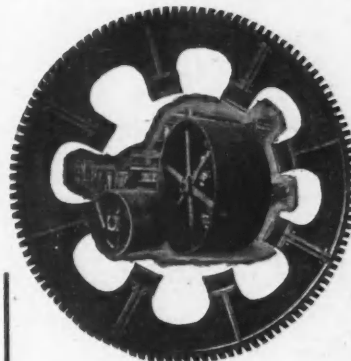
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