

MEMBER OF THE A. B. C.

FORTY-NINTH YEAR

PAPER TRADE JOURNAL

THE INTERNATIONAL WEEKLY OF THE PAPER AND PULP INDUSTRY

ESTABLISHED IN 1872

Vol. LXXI. No. 4

NEW YORK AND CHICAGO, JULY 22, 1920

Per Annum, \$4.00
Single Copy, 10 Cents**EXPORT will give you DEMAND**

even when the domestic market slumps; if you prepare for it. It is worth talking over with

PARSONS TRADING COMPANY17 BATTERY PLACE, NEW YORK, With Branches All Over The World
London, Stockholm, Sydney, Melbourne, Wellington, Bombay, Rio de Janeiro, Buenos Aires, Havana, Mexico, etc.**Paper for Every Need**

Our manufacturing facilities are at your service in solving your paper problems. Paper and Cardboards.

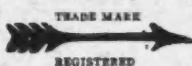
The best service consistent with conditions.

SEAMAN PAPER COMPANY
Chicago New York

NOT only for ocean transportation, but wherever dampness and damage are a shipping menace, you need "NATIONAL DUPLEX," the highest development of waterproof case lining.

National Duplex Waterproof Case Lining**NATIONAL WATERPROOFING COMPANY**
1654-1656 Drexel Bldg., 5th & Chestnut Sts., PHILADELPHIA, PA.
Manufacturers of Waxed Papers**F. BREDT & CO.**

240 WATER STREET, NEW YORK CITY

ANILINE COLORS
and DYESTUFFS for
Paper MillsUltramarine Blue, Brown
and White Sugar of Lead,
Canvas Dryer Felts

SOLE AGENTS FOR

JOSEPH PORRITT & SONS**FELTS AND JACKETS****PAGE 19!****PROTECTIVE PAPERS**Glassine
Vegetable ParchmentParchmoid
Greaseproof*Diamond Fibre Receptacles of all kinds***Diamond State Fibre Company**Dept. FT.
BRIDGEPORT, PENNSYLVANIA (near Philadelphia)

E. R. WOODWARD, Pres.

WALTER F. SIMONDS, Treas.

TRAIN SMITH COMPANY

IMPORTERS AND DEALERS IN

**ALL GRADES OF FOREIGN AND
DOMESTIC PAPER STOCK**

67 MILK STREET, Equitable Bldg., BOSTON, MASS.

Telephones: Murray Hill { 4248
 { 4247Hans Lagerloef, Pres't & Treas.
Orvar Hylin, Vice-Pres. & Sec'y.*Lagerloef Trading Co., Inc.*

18 East 41st Street, New York, N. Y.

All Kinds **WOOD PULP** Every Description
Correspondence Invited!**STORM & BULL, Inc.**

2 Rector Street, New York

Paper Exporters—Pulp Importers

OFFICES:

Buenos Aires Montevideo Valparaiso La Paz
Christiania Stockholm**EXPERIENCED PAPER AGENTS IN OTHER PARTS
OF THE WORLD****PULP**When in the market
remember we have ex-
cellent connections in
Scandinavia.**NEW YORK OVERSEA CO., Inc.**
17 Battery Place New York, N. Y.**PRICE & PIERCE., Ltd**
30 East 42d Street, New YorkSole Selling Agents for
Bathurst Lumber Co. Ltd.
BATHURST, N. B.**Kraft Pulp and Easy
Bleaching Sulphite****INTERNATIONAL PULP CO.**
NEW YORK CITY**ASBESTINE PULP + FILLER**
90% Retention

REG. U. S. PATENT OFFICE

PAPER EXPORTERS
 NEWSPRINT
 PRINTING
 WRITING
 WRAPPING
 SPECIALTIES

HUDSON TRADING COMPANY
 18 East 41st Street
 NEW YORK
 ESTABLISHED 1886
 CABLE ADDRESS: "HUDTRACO," NEW YORK

DANA T. McIVER
High Grade Printing Paper
 116 So. Michigan Avenue
 CHICAGO

BOOK AND COATED PAPER
 Car Lot and Tonnage Contracts

FITCHBURG DUCK MILLS
 ESTABLISHED
 1844.
 FITCHBURG, MASS.

MANUFACTURERS OF

**Standard and Multiple
 DRYER FELTS**

English Weave in Two, Three, Four, Five
 and Six Ply

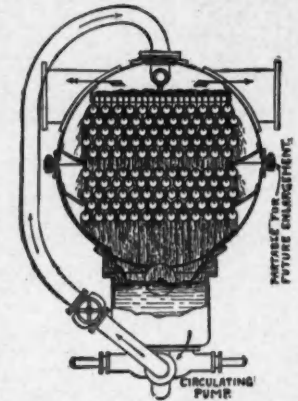
60 Inches to 176 Inches in Width

Fine Faced Felts for Fine Papers
 Absolutely no Felt Marks in Paper

—TRIUNE Three Ply Felts for Coarse Papers—

**This Shows How the Lillie Evaporator
 Can Be Enlarged
 With Proper Orig-
 inal Provision**

The Lillie Evaporation has many advantages over all others, one of which is the facility with which the units can be enlarged, thereby increasing capacity when provided for originally. Simply remove the bolts at the joint indicated, insert a new section of tubes and bolt together.



The illustration also shows the mechanical circulation as obtained in the Lillie Evaporator. This does away entirely with hydrostatic head and gives us 100% film evaporation.

Vapor reversing is another feature, valuable because it tends to prevent the formation of incrustations.

Made in all capacities and for all evaporation purposes.

Furnished exclusively by

Wheeler Condenser & Engrg. Co.
 Carteret, N. J.

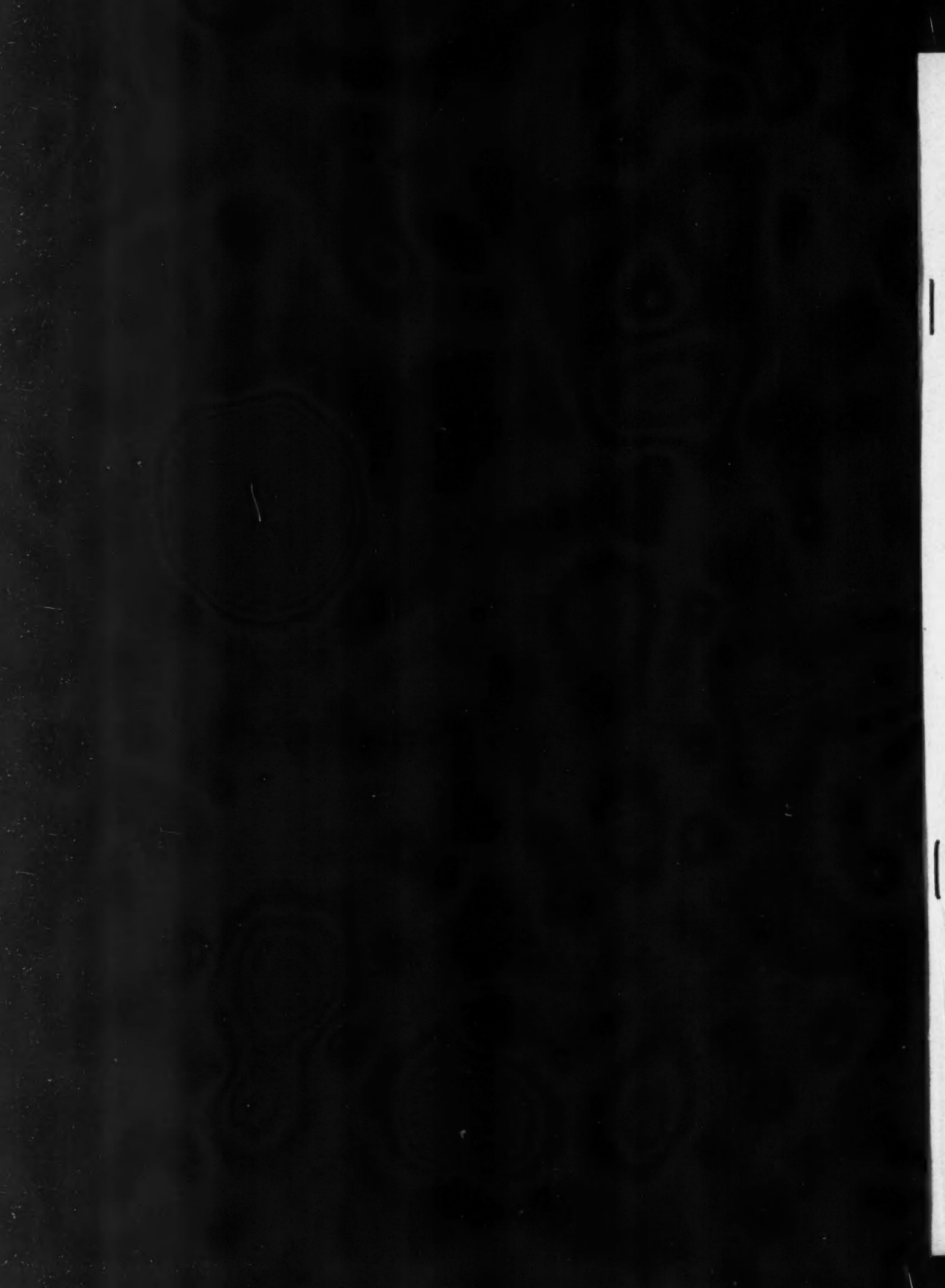
under agreement with the Sugar Apparatus Mfg. Co., S. Morris Lillie, Prest., owners of the Lillie Evaporator Patents 71



**The Lombard
 Barker
 Attachment**

can be applied to any make of Disc Barker. No matter what Disc Barker you may be operating—the Lombard Barker attachment will add to its efficiency—saving in wood—easy operation.

WATERVILLE IRON WORKS
 Waterville, Maine





INDIAN BRAND

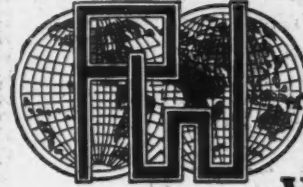
RUBBER
SPLICING TISSUE

E. M. Sergeant Co.

15 EAST 26TH STREET
New York, N. Y.

Parsons & Whittemore, Inc.

299 Broadway
New York City



Paper and Pulp Exporters

Agents for Leading
Paper Manufacturers,
McNamee Clays, Etc.

None but the best
grades.

Domestic Export
and Import.

Wood Pulp — All Grades
Paper Mill Supplies.

KNOX WOOLEN CO.

MANUFACTURERS OF

"EXCELSIOR"

Seamless Felts for
fast running

Satin style Felts
for fine finishes

FELTS AND JACKETS
FOR EVERY GRADE OF PAPER

1863

CAMDEN, MAINE

1919

Missisquoi Pulp and Paper Company

SHELDON SPRINGS VERMONT

White and Tinted Bristols — White
Blanks — Index Bristol and Special-
ties in Card Boards.

FLOWER CITY TISSUE MILLS CO.

ROCHESTER NEW YORK

MANUFACTURERS OF

HIGH GRADE FOURDRINIER TISSUE,
SPECIAL WRAPPERS, FOLDER STOCK,
TAG BOARD, BRISTOLS, ETC.

Mills at

ROCHESTER, N. Y. SCOTTSVILLE, N. Y.

Direct all correspondence to Rochester, N. Y.

Super Calenders
Breaker Calenders
Friction Calenders
Embossing Calenders
Hydraulic Presses and Pumps



Successors to the Granger Foundry & Machine Co.

The Textile-Finishing Machinery Company

Providence, R. I.

The Pulp and Paper Trading Co.

21 East 40th Street New York City

**DEALERS IN DOMESTIC CHEMICAL AND
MECHANICAL PULPS AND PAPER**

AGENTS FOR

J. & J. Rogers Company, Ausable Forks, N. Y.,
Procter & Gamble Distributing Co.
Mills at Augusta, Georgia and
Memphis, Tenn.Canadian Kraft Limited, Three Rivers, Canada
Dealers in Wayagamack Kraft PulpEASTERN AGENTS of Sulphite Pulp. Made by
Port Huron Sulphite & Paper Co., Port Huron, Mich.**E. J. KELLER COMPANY**

INCORPORATED

200 FIFTH AVENUE

NEW YORK

FOREIGN AND DOMESTIC

**PAPER MAKERS' SUPPLIES
COTTON, JUTE and FLAX WASTES
COTTON BAGGING MATERIALS
EAST INDIA MERCHANDISE****Van Noorden Skylights**

are as

**Work by the Sun—
Means twice the work done.****Indispensable**To a modern Paper
Mill as its impor-
tant inner equipment.
"DAYLITE" means
Nature's light with-
out weather or con-
densation drip.**E. VAN NOORDEN & CO.** 103 Magazine St.
Boston, Mass.**STATE PULP & PAPER CO.**

INC.

8 West 40th Street

NEW YORK

DEALERS IN

PULP & PAPER

Agents for

RIVERTON PAPER CO., INC.
RIVERTON, CONN.**Chemical Analysis
of Materials of Construction.**

Mr. Charles M. Schwab tells a story of one of the first orders for steel of a particular chemical analysis that came to him. He noticed that for two or three days after the shop order had gone forward his foreman seemed greatly worried about something or other, so he finally asked him what was the trouble, and got this reply—"Charley, this damned chemistry stuff is going to ruin the steel business yet."

But "chemistry stuff" has helped make the steel business what it is today and chemistry and chemical engineering has not only made the evaporator but has found many uses for it. Furthermore it has made possible the specification of cast iron or steel or alloys of certain chemical analyses that enable us to build alkali and acid-resisting evaporators that otherwise would hardly be worth erecting.

We shall be glad to discuss materials of construction and other evaporator problems with you at any time.

SWENSON EVAPORATOR CO.

Main Office—945 Monadnock Block, Chicago

Eastern Office—318 Widener Bldg., Philadelphia



Daily Capacity of 600 Air-Dry Tons

The extent
of our production of

High Grade
BLEACHED
Sulphite Fibre

insures uniform quality, prompt
shipments and market prices

Pulp Division

BROWN COMPANY

founded 1832
PORTLAND MAINE



Mill Wrappers

Bermico
Sheathing Paper

NIBROC
Kraft and Bond

Paper Division

BROWN COMPANY

founded 1832
PORTLAND MAINE

PAPER

PAPER

News	Bond	Kraft
Book	Litho	Manila
Writing	Label	Fibre
Coated	Music	Lining
Ledger	Embossed	Cardboard

TISSUES

Interleaving Pattern Manila
Carbon White Colors

SPECIALTIES

In Embossing and Hanging
Stocks for Wall Paper
Manufacturers

MILL SUPPLIES

Foreign and Domestic

New Cuttings	Bagging
Old Rags	Cotton Waste
Wood Pulp	Paper Stock
Jute Waste	Animal Sizing
Flax Waste	Gunny Bagging
Old Rope	Fibres

FOREIGN BRANCHES

Lima, Peru
Barranquilla, Colombia
Guayaquil, Ecuador
Caracas, Venezuela
Santiago, Chile
Para, Brazil
Rio de Janeiro, Brazil
Ciudad de Guatemala,
Guatemala
Habana, Cuba
Santo Domingo, R. D.
Mayaguez, Porto Rico
San Juan, Porto Rico
Buenos Aires, Argentina
Port au Prince, Haiti
La Paz, Bolivia
Bombay, India
Paris London

WE EXPORT NOTHING BUT PAPER



Bayless Manufacturing Corporation

SALES OFFICE: 527 FIFTH AVENUE, NEW YORK.
PULP AND PAPER MILLS AT AUSTIN, PA.



HIGHEST
QUALITY
SULPHITE
WRAPPING
PAPERS

FOURDRINIER WIRES

Cylinder Moulds and Dandy Rolls Made and Repaired
Lettering and Monograms for Watermarks

THOMAS E. GLEESON, Inc.

Manufacturers of Wire Cloth of All Descriptions

411-413 John Street, East Newark, N. J.

Specialty—The Finest Wires for Tissue and Fine
Grade Papers

J. ANDERSEN & CO.

FREDERICK BERTUCH, SPECIAL PARTNER
21 East 40th Street, New York City

Importers of Chemical Pulp BLEACHED AND UNBLEACHED

Agents for Kellner Partington Paper Pulp Co., Ltd.
Sarpsborg, Norway; Forshaga, and Edsvalla, Sweden;
Bergvik and Ala Nya Aktiebolag, Soderhamn, Sweden
Scandinavian Export Agents
TEXAS GULF SULPHUR CO., TEXAS CITY, TEXAS

THE WATERBURY FELT CO.



FELTS and JACKETS

For Every Grade of Paper and Pulp

Correspondence and Orders
Solicited

Manufactured at
SKANEATELES FALLS
New York

HIGH GRADE

Paper Mill Machinery

Web Sheet	CALENDERS	Breaker Friction
Belt Driven	PLATERS	Motor Driven

Rag Room Equipment

Fan Dusters	Rag Thrashers	Railroad Dusters
-------------	---------------	------------------

NORWOOD ENGINEERING COMPANY
FLORENCE, MASS.

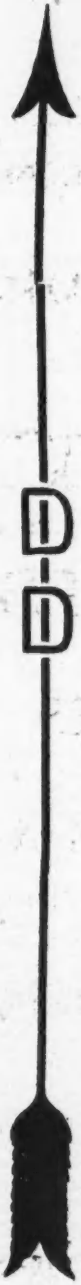
APPLETON FELTS AND JACKETS

Manufactured by

APPLETON WOOLEN MILLS, Appleton, Wis.



**WE ARE
MANUFACTURERS OF
SPECIAL COLORS FOR
THE PAPER INDUSTRY**



**METHYL VIOLET
FUCHSINE
SAFRANINE
BASIC BROWN
METHYLENE BLUE
SOLUBLE BLUE
ALKALI BLUE
BASIC BLUE
AURAMINE
FAST DIRECT COLORS
PAPER SCARLETS
" YELLOWS**

**DICKS, DAVID
CO., INC.**

Manufacturers and Sales Agents of
High Grade Aniline Dyes and Chemi-
cals

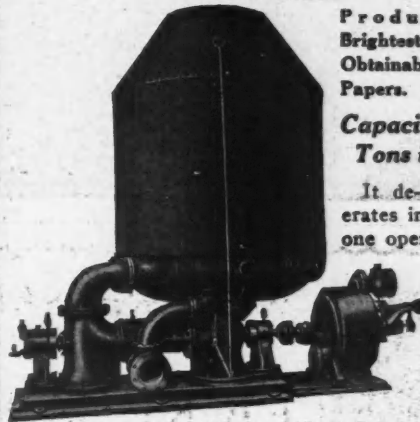
19-21 North Moore Street

Works:
Rosebank, S. I., N. Y. Chicago Heights, Ill.

Offices:
Boston, Mass.; Charlotte, N. C.; Paterson,
N. J.; San Francisco, Cal; Glens Falls,
N. Y., Shanghai, China

WINESTOCK

**DE-FIBERING AND DE-INKING PROCESS
PATENTED**



Produces Strongest,
Brightest and Best Pulp
Obtainable from Waste
Papers.

**Capacity—12 to 15
Tons in 24 Hours**

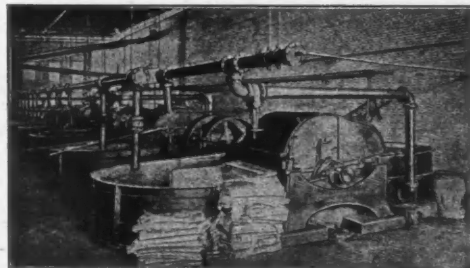
It de-fibers and lib-
erates ink and color in
one operation. It sep-
arates ink and color
from fibres,
instead of
rubbing,
grinding or
kneading
them in.

Height of Machine Over All, 12 Feet

CASTLE, GOTTHEIL & OVERTON

SOLE SELLING AGENTS IN THE UNITED STATES
200 Fifth Ave. Building New York, N. Y.

E. D. Jones & Sons Co., Pittsfield, Mass.,
Builders in the United States
Waterous Engine Works, Co., Ltd., Builders and Selling
Agents for Canada, Brantford, Canada.



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

**WE MAKE A SPECIALTY OF
Beating Engines ALSO
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.

WILLIAM A. HARDY & SONS COMPANY, Fitchburg, Mass., U. S. A.



WE ARE SAFE IN OUR PROPOSITION

YOU'LL MAKE NO MISTAKE IN ACCEPTING IT

PICKLES DRYING REGULATOR

will do everything we claim for it and more. The test costs you nothing until you are satisfied. Many mills tried one and now have every machine equipped. Write for list of users and other information.

W. F. PICKLES, Buckland, Conn.

ORR FELTS AND JACKETS

ALL ARE GIVING SATISFACTION ON

NEWS AND FAST RUNNING MACHINES

THESE FELTS ARE WOVEN ENDLESS

THE ORR FELT & BLANKET CO., Piqua, Ohio, U. S. A.

Buchanan & Bolt Wire Company

ESTABLISHED 1878 AT HOLYOKE, MASS.

Makers of Highest Grade Fourdrinier Wires, Dandy Rolls, Cylinder Covers, Brass Wire Cloth of all Meshes for Paper, Pulp and Coating Mills—Quality Guaranteed

We make a specialty of Fine Wires for Magazine and Book Papers

Starch

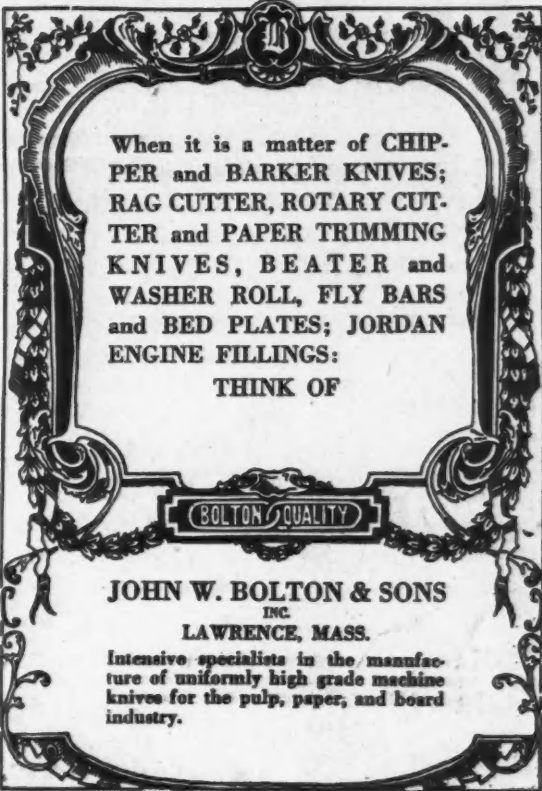
Paper manufacturers generally recognize the value of **starch** in the manufacture and coating of paper.

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.

Our carefully controlled and thoroughly standardized processes enable us to produce exactly the various **starches** which the paper industry has found economical and efficient.

Corn Products Refining Company
17 Battery Place New York

Starch

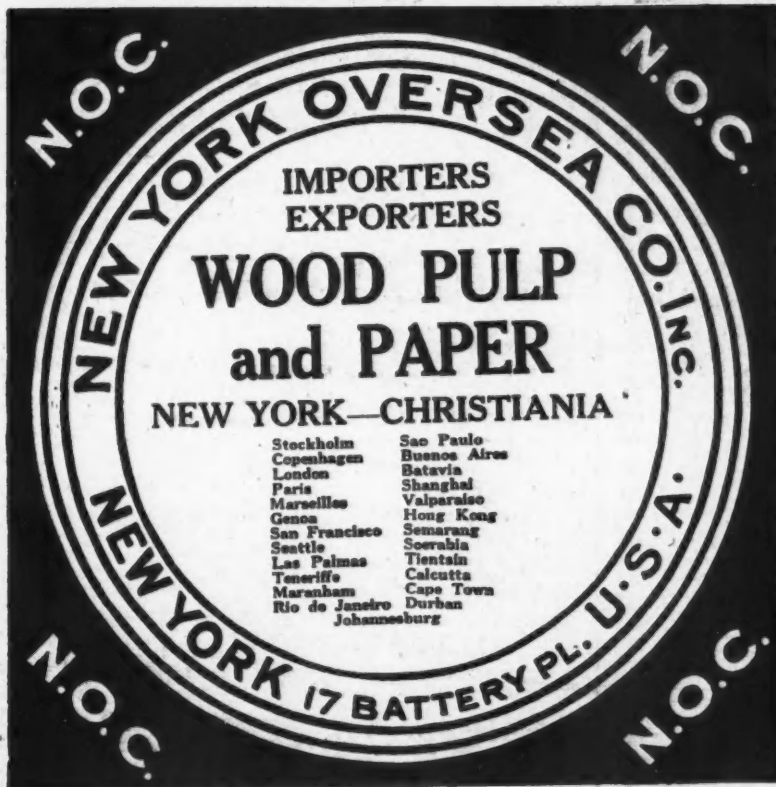


When it is a matter of **CHIPPER** and **BARKER KNIVES**; **RAG CUTTER**, **ROTARY CUTTER** and **PAPER TRIMMING KNIVES**, **BEATER** and **WASHER ROLL**, **FLY BARS** and **BED PLATES**; **JORDAN ENGINE FILLINGS**:
THINK OF

BOLTON QUALITY

JOHN W. BOLTON & SONS
INC.
LAWRENCE, MASS.

Intensive specialists in the manufacture of uniformly high grade machine knives for the pulp, paper, and board industry.



IMPORTERS EXPORTERS
WOOD PULP and PAPER
NEW YORK—CHRISTIANIA

Stockholm	Sao Paulo
Copenhagen	Buenos Aires
London	Batavia
Paris	Shanghai
Marseilles	Valparaiso
Genoa	Hong Kong
San Francisco	Samarang
Seattle	Soerabia
Las Palmas	Tientsin
Teneriffe	Calcutta
Maranham	Cape Town
Rio de Janeiro	Durban
	Johannesburg

IMPORTERS OF
SCANDINAVIAN PULP
AND
EXPORTERS OF
AMERICAN - MADE PAPER

New York Oversea Company
17 Battery Place New York City

W. F. Ehrholm, Manager
pulp and paper sales

COLLINS MANUFACTURING COMPANY

SAMUEL R. WHITING, Pres. and Treas.

Manufacturers of

LOFT DRIED PAPERS
LEDGERS
BONDS
WRITING PAPERS

Mill: North Wilbraham, Mass.
Main Office:
208 Race Street
Holyoke, Mass.

CASEIN

Especially prepared
for

PAPER COATING

"N. 3" & "N. 6"

PAPER SIZING

"S. 3" & "S. 6"

Uniformity of Quality
Guaranteed

Write for Samples and Quotations to

Aldgate Casein Works

Proprietors

Nieuwhof, Surie & Co., Ltd.

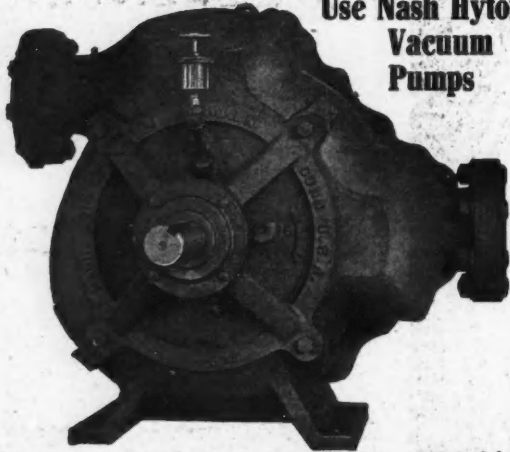
Head Office

5, Lloyds Avenue, London, E.C.3

Telegraphic Address Suricodon England

"ECONOMIZE"

Use Nash Hytor
Vacuum
Pumps



Eliminating All Valves, Pistons, Gears—Minimizing
Maintenance and Repairs

Our Best Testimonials Are Repeat Orders
Many customers using from FIVE to SIXTY-FIVE
For full information and particulars address

THOMAS H. SAVERY, Jr.
1718 REPUBLIC BLDG. CHICAGO, ILL.

Associate New England States
Mr. Gilbert Howe Gleason, 141 Milk St., Boston

Wood Plugs

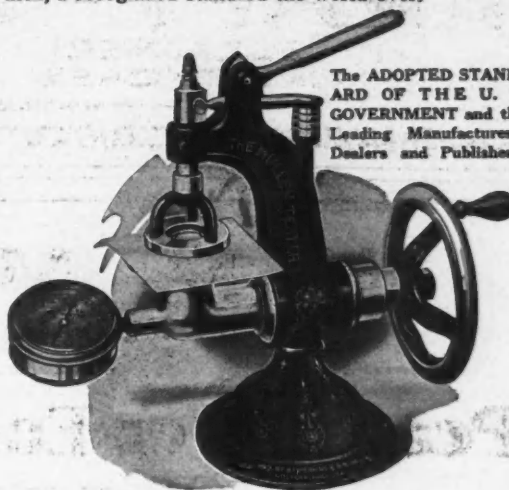


For paper rolls, made to pattern under shop names in four sizes as follows: CARD, 3"; MANILLA, 2½"; NEWS, 2¼"; DRUG, 2⅛"; 1¾" in length, having 1" hole, and tumble polished when shipped. You should, if possible, adjust your needs to these stock sizes, with prospect of prompt shipping in cartlots or less, thereby avoiding serious delays in waiting for something special. Samples cheerfully furnished.

O. L. BARTLETT
Mound City, Ill.

THE WORLD STANDARD THE MULLEN PAPER TESTER

We claim that two samples of paper, uniformly made of the same stock of equal weight, thickness and finish, tested on this machine, will show exactly uniform tests. The test results are shown, not in some arbitrary scale, as with other tests, but in pounds pressure per square inch, a recognized standard the world over.



The ADOPTED STANDARD OF THE U. S. GOVERNMENT and the Leading Manufacturers, Dealers and Publishers.

Send for Catalogue and References

B. F. PERKINS & SON, Inc. Sole Manufacturers
HOLYOKE, MASS.

HART TRADING CO., Inc., Tribune Building New York City

Exporters and Importers Paper and Pulp

Exclusive Sales Agencies

DOMESTIC

Westfield River Paper Company, Russell, Mass.—grease proof, parchment and glassine papers.

Hartje Paper Manufacturing Co., Pittsburgh, Pa., (Mills, Steubenville, Ohio)
News and Kraft Paper.

FOREIGN

A/S Papirfabriken Brager, Drammen, Norway—M. G. sulphite papers.

A/S Phoenix Papirfabrik, Drammen, Norway—Light weight grease proof parchment and glassine papers.

A/B Klippans Finpappersbruk, Klippan, Sweden—India Bible.

Stromsnäs Bruks A/B, Stromsnäs Bruk, Sweden—kraft, sealings and sulphite papers (light weight and heavy in all finishes).

A/S Lillestroms Cellulosefabrik, Kristiania, Norway—sulphite pulp, strong and easy bleaching.

A/S Fladeby Cellulosefabrik, Kristiania, Norway—sulphate pulp, strong and easy bleaching.

Western Office
Conway Building,
Chicago, Ill.

Connections with the most important mills making all grades of paper pulp for domestic and foreign consumption. Foreign specialties in paper and pulp.

Canadian Representative—M. S. Kilby,
Reg'd, 248 St. James St.
Montreal, Canada

P
U
L
P

KRAFT - SULPHITE

BLEACHED DOMESTIC
 UNBLEACHED FOREIGN

— INQUIRIES SOLICITED —

SCANDINAVIAN - AMERICAN TRADING CO., 50 E. 42nd St. New York City

A. M. MEINCKE

Materials for PAPERMAKING

Pearl Filler English China Clay

5 South Dearborn Street, CHICAGO, ILLINOIS

We Supply a Complete Line of

Colors for Papermakers

OUR LABORATORIES ARE AT YOUR SERVICE

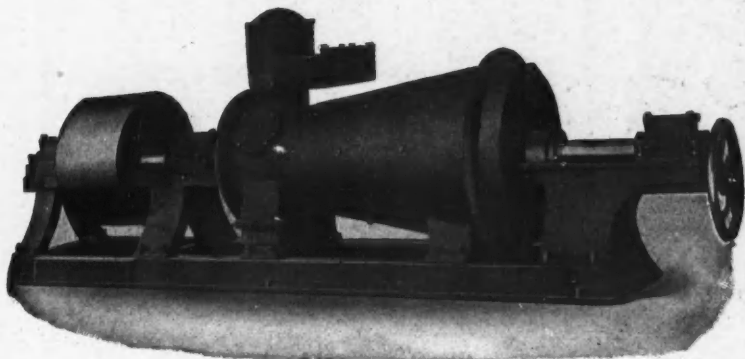


WORKS IN NEWARK, N. J.

THE HELLER & MERZ CO.

BOSTON CHICAGO NEW YORK PHILADELPHIA

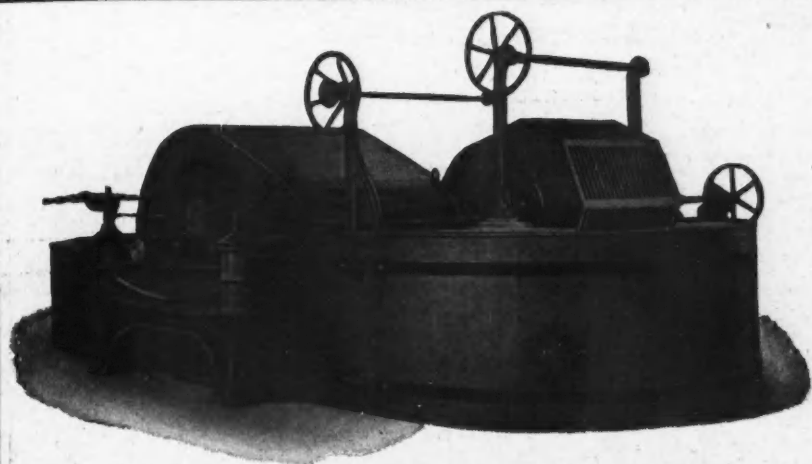
THE DILLON JORDAN



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

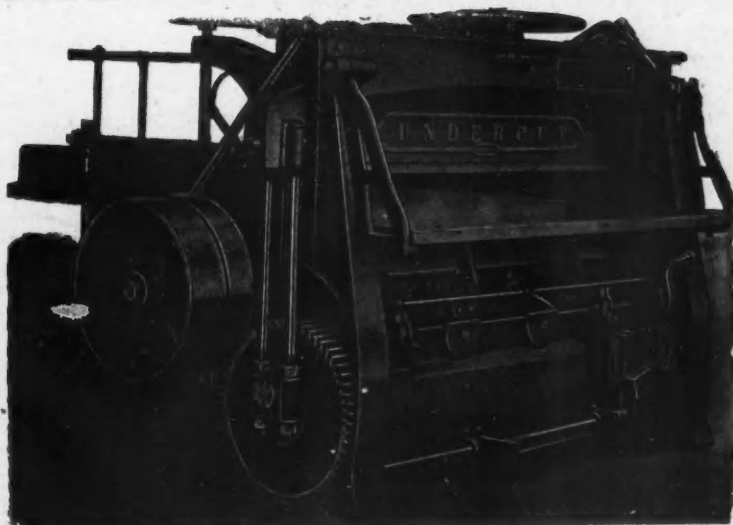
DILLON MACHINE CO., Inc.
 Builders of Paper Mill Machinery
 Lawrence, Mass.



WOOD AND IRON TUB BEATERS

**Fourdrinier
 Machines
 Cylinder
 Machines
 Pulp
 Machinery**

Downington Mfg. Co.
 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.

For further and full information, call upon

The Smith & Winchester Mfg. Co.

Builders of High Grade Paper Mill Machinery and Paper Bag Machinery
 South Windham, Conn.



SOLE AGENTS in the UNITED STATES, CANADA, MEXICO and CUBA for
FINNISH CELLULOSE ASSOCIATION, HELSINGFORS, FINLAND
 comprising all and every Sulphite, Sulphate and Kraft pulp mill in Finland. Manufacturers of superior grades of Bleached and Unbleached Sulphites, Easy Bleaching Sulphates and Kraft Pulps.

ALSO



SOLE AGENTS in the UNITED STATES, CANADA, MEXICO and CUBA for
FINNISH WOOD PULP UNION, HELSINGFORS, FINLAND
 a combination of the foremost Ground Wood Pulp and Board mills in Finland, makers of various kinds of boards and dry and wet Brown and White Mechanical Wood Pulp.

Get the most for your money by getting next to our qualities and prices!

WOOD  **PULP**

Lagerloef Trading Company, Inc.

18 East 41st Street, New York, N. Y.

Telephone: Murray Hill 4246-47
 " " " 2170

INQUIRIES SOLICITED.

MEMBER OF THE A. B. C.

PAPER TRADE JOURNAL

THE INTERNATIONAL WEEKLY OF THE PAPER AND PULP INDUSTRY

FORTY-NINTH YEAR

PUBLISHED EVERY THURSDAY BY THE

LOCKWOOD TRADE JOURNAL COMPANY, INC.

LESLIE R. PALMER, President

J. W. VAN GORDON, Vice-President

Telephone { 2380 } Vanderbilt 10 EAST 39TH ST., N. Y., U. S. A. Cable Address Catchew, New York
 { 2381 }
 { 2382 }

Western Publication Office—431 S. Dearborn Street, Chicago
New England Office—Room 46, 127 Federal Street, Boston

Washington Office—L. M. Lamm, 63 Home Life Bldg.
Western New England News Office—A. W. Andera, Holyoke
London Office—Stonhill & Gillis, 58 Shoe Lane

The PAPER TRADE JOURNAL is the pioneer publication in its field, and has for many years been the recognized Organ of the Paper and Pulp Industry. Its circulation is greater than the combined circulations of all other publications in the field. Entered at New York Post Office as second-class mail matter.

Terms of Subscription

UNITED STATES AND MEXICO.....Per year, \$4; 6 months, \$2; 3 months, \$1
CANADA AND FOREIGN COUNTRIES IN POSTAL UNION.....Per year, \$6
SINGLE COPIES10 cents

Other Publications of Lockwood Trade Journal Company, Inc.

AMERICAN STATIONER AND OFFICE OUTFITTER (Weekly).....Per year, \$2
LOCKWOOD'S DIRECTORY OF THE PAPER }
STATIONERY AND ALLIED TRADES (Annual) }Per copy, \$7

Vol. LXXI. No. 4

NEW YORK AND CHICAGO

Thursday, July 22, 1920

Table of Contents

News of the Trade:

	PAGE.
Serious Forest Depletion Cause of Paper Shortage....	16
Alaska Offers Timber Relief.....	16
Southern Publishers on Paper Shortage.....	16
Black River District Paper Matters.....	17
High Fall Paper Co. to Build Dam.....	17
Payment on Industrial Democracy System.....	17
Carthage Lumber Corp. Sells Timber.....	17
Paper Stocks Boom on Montreal Exchange.....	18
Forest Products Laboratory.....	18
Pulp Mill for Lewis.....	20
Canadian Paper in the West Indies.....	20
Paper from Papyrus Grass.....	20
Strathmore Paper Co. Sells Stock.....	20
McClellan Paper Co. Increases Stock.....	20
Bids and Specifications for Government Paper.....	22
Government Printing Office Awards.....	22
Panama Canal Awards.....	22
To Build Pulp Mill at Shawmut.....	22
Beckett Paper Co. to Make Extensions at Hamilton....	24
Paper Bag Firm to Build Factory.....	24
Miami Tissue Mills Cash Distributed.....	24
May Test Federal Power Commission Law.....	24
Toronto Paper Demand Less Active.....	26
Paper Board Company Is Expanding.....	26
Possibilities of Pulp from Straw.....	26
New Paper Mill for Port Arthur.....	28
Latest Objects of German Research.....	28
Philadelphia Jobbing Demand Quieter.....	30
New Coating Paper Plant.....	30
Universal Waste Products Co. Buys Building.....	30

PAGE.

New German Screens.....	32
Recent Incorporations.....	34
News of the Holyoke Trade.....	34
Wants Paper Samples.....	36
New York Trade Jottings.....	36
German Paper Manufacturers Meet.....	38
News Print Production During June.....	38
Imports and Exports of Printing Paper.....	38
Labor Conditions Better in New England Mills.....	40
Trend of New England Prices Seems Upward.....	40
Whalen Company's President Resigns.....	43
Paper Converting Corp. Completing New Plant.....	43
Paper Situation in France.....	43
Timber Estimating House Opens Washington Office.....	43
Idaho to Have New Pulp and Paper Plant.....	44
Forestry Resolutions.....	46
New England's Paper Industry.....	50
Imports and Exports of Paper and Paper Stock.....	64
To Buy Pulpwood Land.....	64

PAGE.

Editorial:

Good Forestry Work.....	42
Directory Information.....	42
Paper Mill Wages.....	42

Practical and Technical:

Questions and Answers.....	44
----------------------------	----

Market Review:

New York Market Review.....	62
Market Quotations.....	63
Miscellaneous Markets.....	66

Want and For Sale Advertisements, Pages 72, 73 and 75

SERIOUS FOREST DEPLETION CAUSE OF PAPER SHORTAGE

Overdevelopment of the Pulp and Paper Industries in Present Sections Has Depleted Forests in Northeastern and Lake States and Caused Present Situation, Says Government Report—Heavy Investments in Paper Plants Has Made It Impossible for Them to Move Nearer to Source of Wood Supply as Lumber Industry Has Done—Look To Alaska To Relieve Situation.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., July 21, 1920.—The fundamental cause for the present shortage of news print paper is the serious depletion of the forests of the Northeastern and the Lake States where there is an overdevelopment of the pulp and paper industries, according to a report to the Senate by the Forest Service, United States Department of Agriculture, in response to a request for information on timber depletion, prices, exports, and ownership. The report, which has recently been made public, is one of the most comprehensive ever prepared dealing with the lumber resources of the Nation.

Since the requirements of paper making restrict the kinds of wood that can be advantageously used in making news print, four species—spruce, hemlock, balsam, and poplar—supplied 84 per cent of the total amount manufactured in 1917, according to the report. The occurrence of these species chiefly in the Lake States and New England has led to the over-centralization of the paper-making industry there, it is stated.

Paying Penalty for Depletion

Until recently, when abnormal demands, short supplies and resulting high prices led to increased news print production through the utilization of plants designed for and formerly used in making other kinds of paper, there has been no expansion in the news print industry in the United States since 1909, and we have had to import large quantities of pulpwood and paper, the report points out. The demand, however, has greatly increased, and because of excessive depletion of our own resources this country now is dependent upon foreign sources for two-thirds of its news print or its raw material.

Even with the imports the supply has been far short of the needs of the newspapers of the country in the past two years. The contract price has increased more than 200 per cent while spot market prices are 500 per cent more than in 1915. "Prior to the war," says the report, "the larger newspapers secured all or practically all of their supplies under contract, and a relatively small percentage of the total news print consumption was handled on a spot market basis. During the last year the larger papers have found it increasingly difficult to secure all of their supplies under contract and have been forced to secure the remainder in the open market. It is in the open market that the full effect of competition for inadequate supplies is shown and this is reflected in the much higher prices.

Small Papers Suffer Most

"Unfortunately it is upon the spot market that the smaller newspapers, least able to increase returns by increasing advertising and raising their rates, must depend." The result has been that many of these small papers have been forced to curtail their issues and have had the greatest difficulty in securing enough news print to continue publication.

It has been possible for the lumber industry to move to more remote timber lands as forests have been cut away, but the heavy investment required for paper plants has made it impossible for the paper industry to do this. The result is that existing mills are finding it necessary to secure their supplies of wood from increas-

ing distances. Spruce from Minnesota and Canada, for example, is being hauled from 700 to 1,200 miles to paper mills in Wisconsin.

The timber is going fast, the report says. It is reported that in New York, where nearly 50 per cent of our news print is produced, 60 per cent of the pulp and paper mills have absolutely no timber supplies of their own. For these mills there seems to be no other prospect than to close down in a comparatively few years. In New Hampshire the coniferous pulpwood has been cut heavily and 10 or 12 years will see the end of the supply. Aside from the State preserve in New York, in which no cutting is allowed, the bulk of the coniferous pulpwood in the East is located in Maine. One company there has enough timber for 40 to 60 years cut. Others are estimated to have enough to last 15 to 20 years, but there are about 15 companies which have no lands of their own and which will have difficulty in purchasing material within 10 years.

In general, the pulp and paper mills of the Northeast are becoming more and more dependent upon Canadian wood. Such dependence, the report points out, is extremely dangerous. All exports of pulpwood are prohibited from Newfoundland. The Canadian provinces have prohibited the export of pulpwood from crown lands, which form a very considerable part of the timberlands in eastern and western Canada.

On the whole, the situation of the news print industry in the eastern United States is very unfavorable and there is little chance of its becoming better, the report states. The only things that can assure production of even approximate domestic requirements are concerted effort to increase the production of pulpwoods in the Northeast and the development of the news print industry in the West and in Alaska.

Alaska Offers Relief

The timber on the Tongass National Forest in Alaska is said by the report to be of particular importance in connection with the news print situation. It is estimated that there are about 70 billion board feet of Sitka spruce and western hemlock well suited for paper making. The timber is located in a comparatively narrow belt along 12,000 miles or more of coast line. Water power is available as is also deep water transportation from numerous mill sites.

"It is estimated that the cut from this region alone will insure a perpetual supply large enough to meet one-half of the present news print requirements of the United States. Alaska is one of the centers to which the news print industry of the United States should look for a large future development. The same is true of other centers in the West, where immense resources of pulpwood supply are now almost wholly undeveloped. Much of this timber is in the National Forests."

To bring about promptly the development of the pulp and paper industry in new regions of abundant timber supplies the report recommends a comprehensive survey to furnish exact information upon the stand and location of suitable timber and other needed data.

Southern Publishers on Paper Shortage

[FROM OUR REGULAR CORRESPONDENT.]

ASHEVILLE, N. C., July 19, 1920.—The wood pulp situation, five cents dailies, ten cent Sunday editions and nine column papers, second class postage, the news print supply and labor questions were discussed at the opening session today of the eighteenth annual convention of the Southern Newspaper Publishers' Association.

E. A. Sherman, associate forester of the Department of Agriculture, led the discussion of the wood pulp situation; Walter G. Bryan, of the New York *American*, spoke on increased prices for daily and Sunday editions, and H. N. Kellogg, of the Associated News Publishers' Association, discussed labor questions.

MATTERS OF PAPER INTEREST IN BLACK RIVER DISTRICT

Wood Barking Plant of St. Regis Paper Co. at Deferiet Is Destroyed by Fire, With Damages Estimated at \$10,000—Broken Main Shaft of News Print Mill of Deferiet Paper Co. Causes Shut-Down of 30 Hours—High Falls Pulp & Paper Co., of Chateaugay Is to Erect Big Reinforced Concrete Dam—Paper Manufacturers to Operate Gardner Limestone Quarry at Richville.

[FROM OUR REGULAR CORRESPONDENT.]

WATERTOWN, N. Y., July 19, 1920.—The wood barking plant of the St. Regis Paper Company at Deferiet was destroyed by fire last Friday night, damage estimated at \$10,000 being sustained. General Manager C. C. Burns said that \$5,000 damage was done to the machinery, \$4,000 to the building, and about \$1,000 worth of materials was lost. The cause of the fire is unknown.

The plant is adjacent to other portions of the mill and it was with much effort that the flames were confined to the barking plant. Help was summoned from Watertown, and a big fire truck was soon on the job and remained there until all danger of spreading had passed.

Manager Burns said that the mill would be rebuilt promptly. The other parts of the plant continued in operation and will not be affected by the fire. The burned mill was covered with insurance.

Deferiet Paper Co. Shuts Down

Forced to shut down for more than 30 hours because of a broken main shaft, work at the news print mill of the Deferiet Paper Company was resumed early this morning. Entire production ceased while repairs were going on, but shipments to many of the big city dailies which are being supplied by the Deferiet plant were continued.

The damage to the shaft, one of the main parts of the water power system, was not great. It was attached to a wheel directly placed in the Black River, from which the power for the factory is developed. The fact that it was one of the important units caused the shut-down and a lay-off of between 300 and 400 men.

The manner in which the shaft broke has not been ascertained. It is believed, however, that parts connecting it to the wheel had become worn. Every effort was made to hasten repairs because of the scarcity of news print paper.

High Falls Paper Co. to Build Dam

Charles E. Eaton, local consulting hydraulic and paper mill engineer, has just completed plans for the erection of a big reinforced concrete dam for the High Falls Pulp and Paper Company of Chateaugay. The contract for construction has just been awarded to the Cummings Construction Company of Glens Falls. Work will start at once and the dam will be completed by November 1.

The dam of the paper company located at the outlet of Chateaugay Lake, forming a storage reservoir for river regulation out of the upper and lower lakes, has passed its age of safe usefulness and is to be replaced. The new dam will be 250 feet long and 20 feet high. The paper mill is located only a few miles down the Chateaugay river from the dam, and the company is able to maintain constant flowage by adjustment of the dam gates, which impound a large basin of water in the two lakes.

The High Falls Pulp and Paper Company manufactures news print paper and is owned and operated by the New York World.

Payment on Industrial Democracy System

The industrial democracy system in operation in the mills of

Taggarts Paper Company, netted the employees \$4 each for the month of June. Payment was made Saturday by the company. It was the lowest amount paid under the system since it was introduced last January.

In explaining the cause of the drop from \$6 each for May, O. P. Barnes, secretary and treasurer of the company, said that the trouble was entirely due to low water conditions. The worst dry spell of the season occurred in June, but with fairly satisfactory river flowage thus far this month it is believed the democracy will return better checks for this month. The rains of the past 24 hours have been felt in river flowage.

To Operate Limestone Quarry

Six Northern New York paper manufacturing concerns have just combined in a 38 years' lease of the Gardner limestone quarry at Richville, St. Lawrence County, and will mine their own limestone for use in their sulphurous acid towers. The companies involved are: Dexter Sulphite Pulp and Paper Company, Newton Falls Paper Company, Carthage Sulphite Pulp and Paper Company, Gould Paper Company, DeGrasse Paper Company, and the Oswego Falls Pulp and Paper Company. The mine will be operated at full capacity. Because of the inability of the foregoing paper manufacturers to obtain a steady supply of lime the step was taken.

For some years this quarry has not been operated extensively. New equipment is being installed and it is expected that when the plant is under full operation there will be shipped from five to eight carloads a day, with a pro rata share going to each sulphite mill.

Carthage Lumber Corp. Sells Timber

The standing timber of the 8,000 acres Copley tract, owned by the Carthage Lumber Corporation, has just been sold, the hard wood to the Braman Manufacturing Company and the spruce, hemlock and balsam timber to C. W. Pratt of the Island Paper Company.

The Braman company manufactures wood products, principally duster handles and broom sticks, while the paper company will use the pulp wood.

There are about 4,000 acres of virgin forests, with a good farm with houses and barns, and also a good sawmill and boarding house. It is estimated that the stand will deliver 25,000,000 feet of hard wood, 9,000,000 feet of pine, about 100,000 cords of spruce and about \$75,000 worth of hemlock.

Mr. Moore Invited to Speak at Madison

Frank L. Moore, president of the Newton Falls Paper Company, has been notified that he is to be one of the speakers, July 23, at Madison, Wis., at the reforestation conference of all wood-using industries representatives of the United States in cooperation with officials of the states and nation. He has been assigned the topic: "What We Have Already Done on Reforestation."

Mr. Moore has become recognized as one of the leading experts on forestry matters in the country and he is always in demand when forestry or kindred problems are being considered. He was chairman of the special committee of the American Pulp & Paper Association which sent to Washington what has been recognized by federal authorities as the most comprehensive and practical report that has ever been made on the question of handling forestry in this country.

"There is closer cooperation now between owners, users, foresters and government and state authorities than there has ever been," said Mr. Moore, "and these conferences are found to be of much benefit. It is probable that another such conference as the one scheduled for Madison will be held in the East some time this fall."

In view of his recent extended trip to the far west Mr. Moore said that he feared he would be unable to accept the invitation to be one of the speakers at the meeting July 23.

BOOM IN PAPER STOCKS ON MONTREAL STOCK EXCHANGE

Caused by the Fact That Higher Prices for News Print Have Recently Gone into Effect—Rumors of Mergers and Other Developments Also Help to Increase the Excitement—Paper Stocks Show Gain of More Than 300 Per Cent in Past Few Years—William Kynoch is appointed Superintendent of the Forest Products Laboratory—Canadian Paper in West Indies.

[FROM OUR REGULAR CORRESPONDENT.]

MONTREAL, Que., July 19, 1920.—There has been considerable excitement here in connection with the securities of the pulp and paper companies during the past week. The fact that higher prices for news print have gone into force is causing quite a boom in the paper stocks on the Montreal Stock Exchange, and this boom is further enhanced by all kinds of rumors as to mergers and other developments. The stocks on which attention has been mostly concentrated are Spanish River, Laurentide, and Wayagamack. The first two of these showed a rise of as much as 15 points during the week. One of the rumors is that Laurentide and Price Brothers may be more closely identified in the future, and another rumor is that the Wayagamack company may be merged with Price Brothers, or with the St. Maurice Pulp and Paper Company. Nothing tangible has come out to support either of these rumors, but it is declared that some big merger is under way, and that an announcement will be made before long. Considerable significance is attached by some of the market operations to the fact that Sir Lomer Gouin joined the directors of the Laurentide Company immediately after his resignation as Premier to the Province. It is thought that this foreshadows some big move on the part of the Laurentide Company. During the week the directors of the Wayagamack Pulp and Paper Company met in Montreal and raised the dividend from 4 per cent to a 6 per cent basis. It had been confidentially predicted that they would put the dividend on an 8 per cent basis, and the disappointment resulted in the loss of several points on the price of the stock in the market.

Paper Stock Gain 330 Per Cent

The prosperity which has come to the pulp and paper companies in Canada during the last few years vies in sensational developments with the romances of silver and gold mine development, and the development of oil wells. In 1916 pulp and paper securities were at a low ebb. At that time securities of nine of the leading Canadian companies had an average market value of but \$60.27 per share. Today, these same shares have so appreciated in value that they are worth on the market approximately \$241.77 per share, an increase of \$181.50, or at the rate of about 330 per cent.

It is difficult for the average man to realize what this means; how the companies referred to have suddenly risen from a struggling position to one of affluence, and looking upon a horizon still bright. Yet this has been done in a period of little more than three years. Those behind the industry have had to keep their faith, not only with themselves but with their financial backers, the general public. They have done so and are continuing to do so. Shareholders of pulp and paper stocks have had no regrets on this score, as will be seen from a glance at the table which follows, giving the low price for the nine leading stocks in 1916, the high point attained last year, and the high point attained thus far in 1920. It must be remembered when considering the 1920 figures, that prices preceded by an asterisk are equivalent prices, the securities having been divided in one manner or another as will be shown hereafter:

	Low	High	High
Abitibi	65	290	*435
Smith Paper	80	151	*280
Laurentide	176	276	*375
Price Bros.	60	260	266
Riordon	59	191	215
Spanish River	3½	90½	124
Do. Pref.....	27	131	*196
Wayagamack	27	90	135
Brompton	43	87	150

In respect of the 1920 high on Abitibi, Smith Paper and Laurentide, the equivalent price for the old stock is given. With Spanish River pref. the price before the 62 per cent stock dividend is deducted, is given.

The manner in which the stocks above referred to have been divided and the capitalization of the several companies enlarged, will be found detailed in the table which follows. In all, four large companies have already divided their capital, while one other, Brompton, has completed its plan for doing so and this will be made a fact this week, as recently announced. When Abitibi stock was divided in five, the old stock was first placed on a 30 per cent dividend basis. Today the new no-par-value shares bear the same equivalent dividend, or \$6 per share. The Brompton plan follows along the same lines the old stock recently placed on a 12 per cent basis, and the two new no-par shares to be issued in a day or so, will this year bear \$6 dividends each. Laurentide new stock, issued on a three for one basis, was placed upon a 6 per cent dividend basis shortly after the split.

Bonuses and Dividends in capital stock of pulp and paper companies in 1919 and 1920:

Abitibi	5 new shares for one old
Laurentide	3 " " " " "
Brompton	2 " " " " "
Smith Paper	2 " " " " "
Price Bros.	22 per cent stock dividend
Spanish River Pref.....	42 " " " " "

How these companies have actually enlarged their common stock capitalization will be seen in the following comparative figures. Riordon and Smith Paper have sold securities. The latter company sold stock to the shareholders, at par, after its stock had been once divided. There is an expectation that Riordon Pulp & Paper stock will soon be divided in some manner. Price Bros. this year paid a stock bonus of 22 per cent. Spanish River paid a stock dividend of 42 per cent capitalizing its arrears on the preferred. The figures follow:

Capital stock of pulp and paper companies sold in 1920:

Riordon	\$1,500,000 at 125
Smith Paper, (new)	500,000 at 100

Capital of Pulp and Paper companies in 1918 and now:

	1918 (shares)	Now (shares)
Abitibi	50,000 shares to	250,000 shares
Laurentide	9,600,000 shares to	28,800,000 shares
Brompton	7,000,000 shares to	14,000,000 shares
Smith Paper	1,062,500 shares to	2,500,000 shares
Riordon	4,500,000 shares to	6,000,000 shares
Price Bros.	5,000,000 shares to	7,000,000 shares
Spanish River, Pref.....	5,699,000 shares to	*8,079,800 shares

*After 42 per cent stock dividend was paid.

Forest Products Laboratory

At the recent meeting of the Technical Section of the Pulp and Paper Association, consideration was given to a proposal to make an offer to the Dominion Government of a plan whereby the Forest Products Laboratory in Montreal could be turned over to the Pulp and Paper Association and run in the future under

(Continued on page 20)

When You Buy SULPHITE OR KRAFT PULPS

Ask Us to Quote!

A. J. PAGEL & CO., Inc.

Wood Pulp Agents

347 MADISON AVE.

NEW YORK

BOOM IN PAPER STOCKS ON MONTREAL STOCK EXCHANGE

(Continued from page 18)

private auspices for the benefit of the industry. As has been previously stated in the *PAPER TRADE JOURNAL*, the staff of the laboratory has been completely disorganized through the fact that the professors have left the Government services to accept employment elsewhere for higher salaries. Developments this week, however, appear to indicate that the Government has decided to continue control of the laboratory.

William Kynoch, the former chief of the Division of Timber Designs, has been appointed Superintendent of the Laboratory, in place of Dr. Bates, who resigned about a year ago. Mr. Kynoch has been instructed to proceed with the reorganization of the staff. At the same time, advances have been made in the salaries offered for technical experts in the various departments. Meanwhile, another resignation from the staff of the Forest Products Laboratory, is announced. L. N. Seaman, chief of the Division of Timber Tests, is leaving Montreal at the end of this month to take up a position as Superintendent of the Forestry Research Institute at Dehra Dun, India, an institution which is being run by the India office of the British Government for the purpose of promoting conservation of forests in India.

Pulp Mill for Levis

It is announced from Quebec that a large pulp plant is about to be erected between St. Romauld and New Liverpool, at Levis. The company will begin doing business with a capital of \$5,000,000, under the direction of Mr. John Breakey, a lumber merchant of Breadeyville, Levis. The mills are expected to turn out more than a hundred tons of pulp daily.

Canadian Paper in the West Indies

It is expected that there will be a considerable increase in the export of Canadian paper to the West Indies, as a result of the recent Canadian-West Indian Conference in Ottawa, in which it was decided to grant mutual preferences up to as high as 50 per cent. Under this agreement Canadian paper, it is expected, will be able to practically monopolize the West Indian market. The first fruit of the conference is that the Government will establish in 1921 a new steamship service, sailing from Halifax and St. John, to Bermuda; then to the Bahamas, Jamaica, British Honduras, and return. Two five thousand ton freight vessels will be put on this route. This will be the first direct steamship connection between Canada and these British Colonies. It is the Government's intention to establish a new combination freight and passenger service from Halifax and St. John to Barbados, and the various other Islands, continuing to British Guiana and return. Up to now, Canadian paper has not made much headway in the West Indies. In 1913 the value of the total import of paper for the West Indies was £99,326, nearly half of which was credited to the United Kingdom. The value credited to Canada and the United States was £2,908 and £24,321 respectively, and the amount to other countries being about the same as that from the United States. The total import of paper from "other countries" in 1913 was £24,533, which was nearly one-quarter in value of the total supply. The bulk of this paper came from Europe, the value from Holland being about £12,000 and from Germany £6,000 and from France next in order. During the period of the war, Holland continued to supply a certain amount of paper, but Germany dropped out entirely, except a small amount in 1914.

In the last year for which there are available statistics, that is 1918, the value of the import had about doubled, being £198,360. The value credited to the United Kingdom was about the same as in 1913, but as paper up to that time had increased to over double the value, this would indicate that less paper had been imported into the West Indies for that year, and that the quality

from the United Kingdom had dropped about one-half. The increased imports were from the United States, valued at £120,793. There was an increase also from Canada, the value of the total import being £10,050, which would indicate that Canada had also sent more paper irrespective of the price to the West Indies. In this year the total import under "other countries" was £16,844, out of the total import of £198,360, the countries of origin being for the most part, France and Holland.

In 1913 printing paper was sold at 2½ to 3 cents per pound in the West Indies, and during the first two years of the war there was only a comparatively slight advance in the price to about 4 cents. This continued to the middle of 1917. A steady advance took place in 1918 and continued to rise and today the price of news print is at the abnormal figure of 18 cents per pound owing to the difficulties of transportation and the general shortage of this commodity.

Paper from Papyrus

News has been received here that arrangements for the manufacture of paper pulp from papyrus grass in Zululand are now in progress. A Norwegian company (Walmer Papyrus Pulp Company) have secured a concession over several hundred square miles from which to reap all reeds and papyrus grass, which are considered to be excellent raw materials for the manufacture of paper pulp. Charles J. Piser, consul at Cape Town, reports that the company is capitalized at £160,000 (\$779,000). A factory capable of turning out 6,000 tons of pulp a year is now being erected at Umfolosi. Most of the machinery and equipment was obtained in the United States.

The company intend at first only to manufacture paper pulp. It is estimated that it will take fully 40,000 tons of raw material to produce the 6,000 tons of pulp, but as the growth of this grass is perennial, and the area where it is found is so extensive, an abundance of raw material is assured each year.

The papyrus has to be cut by hand in the same way as sugar cane. The grass is dried, passed through a cutting machine, and then pressed and lime-washed. An abundance of cheap colored labor is available. Later on the company intends to extend its operations to the manufacture of paper, textiles and bags.

Strathmore Paper Co. Sells Stock

WEST SPRINGFIELD, Mass., July 19, 1920.—The outlook is that the entire \$500,000 block of stock offered by the Strathmore Paper Company at Mittineague and Woronoco to its employees will be sold. Large blocks have already been subscribed. The details of the arrangements for the payments for the stock have already been given in the *PAPER TRADE JOURNAL*. There are 2,000 employees who are eligible to buy stock which is preferred both as to assets and to cumulative 7 per cent dividends. The employees are also included in the eligible list. An employee who holds stock in the company and is leaving the employ of the firm must notify the company of his intention to do so. The company has a 30-day option on the stock and must pay full par value for it as well as dividends to date. The limit to a single purchaser is 250 shares or \$2,500 worth.

McClellan Paper Co. Increases Stock

MINNEAPOLIS, Minn., July 19, 1920.—The capital stock of the McClellan Paper Company, at a recent meeting of the stockholders, was increased to \$550,000, \$50,000 preferred and \$500,000 common.

The officers are now: Fred L. McClellan, president and treasurer; Arthur W. May, first vice-president; Elmer W. McClellan, second vice-president; Wendell O. Hawkins, secretary; John B. Hammond, assistant treasurer.

Cable Address "Shukeil"

Established 1859

Phone 5143 Spring

SHUTTLEWORTH, KEILLER & Co.

468-478 WEST BROADWAY, NEW YORK, N. Y.

*Wholesale Paper Merchants
and Manufacturers*

BAGS
PAPER
BOXES

DISTRIBUTING POINTS

Shuttleworth, Hogg & Mather, Inc.
118 N. Second Street, Philadelphia, Pa.

Gallen Paper Company
2421 Aspen Street, Philadelphia, Pa.

Wm. Spreen & Company
52 Washington Avenue, Brooklyn, N. Y.

Shuttleworth, Wolny Company, Inc.
222 Wyckoff Avenue, Brooklyn, N. Y.

The Shuttleworth, Holly Company
Stamford, Conn.

The Shuttleworth, Dumouchel Company
Waterbury, Conn.

The Shuttleworth, Holly Company
Danbury, Conn.

Geo. A. Fink Company
343 West 104th Street, New York City

W. E. Shuttleworth & Co.
248 Greenwich Street, New York, N. Y.

Congress Warehouse & Forwarding Corp.
Congress & Houston Streets, New York, N. Y.

The Kolb Carton Company, Inc.
146 Thompson Street, New York, N. Y.

Doscher-Tetamore Company, Inc.
Jamaica, L. I.

Hudson Falls Paper Company, Inc.
Hudson Falls, N. Y.

Berlin Veneer Works
Berlin, Maryland

Brooklyn Receiving Station, Morgan Ave. and Newtown Creek

JOHN WEIDMANN, Purchasing Agent

L. B. STEWARD, General Sales Mgr.

BIDS AND SPECIFICATIONS FOR GOVERNMENT PAPER

Purchasing Officer of the Government Printing Office to Open Bids on Various Lots of Paper—Purchasing Officer of the Government Printing Office Announces Awards on Several Lots of Paper for Which Bids Were Opened Recently—Purchasing Officer of the Panama Canal Opens Bids and Announces Awards—Other Paper Bids and Awards for the Government.

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., July 21, 1920.—The purchasing officer of the Government Printing Office will open the following paper bids on July 23:

3,000 pounds (15 reams) 22 x 28—, or 22½ x 28—, approximately 200 buff cardboard.

10,000 pounds (50 reams) 22 x 28—, or 22½ x 28½—, approximately 200 white china board.

10,000 pounds (100 reams) 20½ x 30½—100, No. 60 white ledger paper.

The purchasing officer of the Government Printing Office will open bids on July 26 for

180 reams, 31½ x 36, yellow sulphite writing paper.

85 reams, 31½ x 36, white sulphite writing paper.

233,800 pounds (3,400 reams) of various sizes of white M. F. and sized and super-calender printing paper.

6,600 pounds (200 reams) of 28 x 34, No. 13, light pink wove writing paper.

Government Printing Office Receives Bids

The purchasing officer of the Government Printing Office has received the following paper bids:

15,400 pounds (100 reams) of 38 x 48—154, double-coated rag book paper; King Paper Company, 19 cents.

910 pounds of 22¼ x 31¼—No. 24, parchment paper; Parsons Paper Company at \$21.78 per ream.

800 pounds (50 reams) of 24 x 38—16, white paraffin paper; Newark Paraffin Paper Company at 32 cents; Mathers-Lamm Paper Company at \$.285, \$.30 and \$.275; R. P. Andrews Paper Company at \$.3136; Dobler & Mudge at \$.35, and Wilkinson Brothers at \$.332 and \$.376.

27,525 pounds (650) reams) of various sizes white ledger paper; R. P. Andrews Paper Company at 45 cents; Carew Manufacturing Company at 45 cents and 38 cents; American Writing Paper Company at 45 cents; Whiting-Patterson Paper Company at 42 cents.

Government Printing Office Awards

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

The R. P. Andrews Paper Company will furnish 7,000 pounds of light green and India tint 26½ x 41—100 pounds coated cover paper at \$20.40 per ream. The same firm will also furnish 2,300 pounds (100 reams) of 17 x 22—23 pounds white non-curling gummed paper at \$6.48 per ream. Bids for these items were opened on June 21.

The Wright Paper Company will furnish 4,000 pounds of 22½ x 28½—200 pounds green card-board at \$21.60 per ream. George W. Millar & Co. will furnish 4,550 sheets of 15 x 18½ jute manila paper at \$204.84. Bids for these items were opened on June 23.

The King Paper Company will furnish 6,500 pounds (100 reams) of 24 x 32—65 double-coated book paper at .165 per pound, and the same firm will also furnish 23,100 pounds (200 reams) of 38 x 48—154 and 24 x 38—77 pounds, double-coated book paper at 19 cents. The Mathers-Lamm Paper Company will furnish 15,000 pounds of best quality binders' board at \$130.50 per ton

and 120,000 pounds of No. 2 quality binders' board at \$117.50 per ton. The R. P. Andrews Paper Company will furnish 5,000 pounds (100 reams) of 25 x 38—50 white antique laid printing paper at .165 per pound and the same firm will also furnish 21,900 pounds (200 reams) of 21 x 32½—No. 60 white ledger paper at 40 cents per pound. The Old Dominion Paper Company will furnish 6,000 pounds (200 reams) of 28 x 34—No. 13 light pink writing paper at .34749. Bids for all of these items were opened on June 25.

The Lafayette Boxboard and Paper Company will furnish 50,000 pounds (50,000 sheets) of 26 x 38—50 pounds straw-board at .0525 per pound. The Carew Manufacturing Company will furnish 67,600 pounds (1,100 reams) of various sizes white commercial ledger paper at 30 cents per pound. The Whitaker Paper Company will furnish at .4475 and the American Writing Paper Company will furnish at 45 cents, 49,450 pounds (700 reams) of various sizes white ledger paper. Bids for these items were opened on June 28.

Panama Canal Bids

The purchasing officer of the Panama Canal has received the following paper bids:

1,000 reams (500,000 sheets) of 17 x 22—7¼, unglazed onion-skin paper; Esleek Manufacturing Company at \$2,600; Old Dominion Paper Company at \$7,798; Whiting-Patterson Company at \$3,390 and \$2,880; and Whitaker Paper Company at \$7,500.

16 reams (8,000 sheets) of 22½ x 28½—110 salmon index Bristol board; R. P. Andrews Paper Company at \$633.60; Whiting-Patterson Company at \$639.20; and Old Dominion Paper Company at \$667.52 and \$638.72.

10 reams (5,000 sheets) of 12½ x 37—53 antique buff deckle edge cover paper; Dobler & Mudge at \$262.20; R. P. Andrews Paper Company at \$233.20; and Old Dominion Paper Company at \$357.60 and \$260.90.

14 reams (7,000 sheets) of 24 x 33—70 white linen finish cover paper; R. P. Andrews Paper Company at \$284.62; Dobler & Mudge at \$285.66; and Old Dominion Paper Company at \$277.76 and \$257.74.

The Purchasing Officer of the Panama Canal will open the following paper bids on August 2:

70 reams of heavy wrapping paper.

24 reams (11,520 sheets of 24 x 36—60 of heavy wrapping) paper.

20 reams (10,000 sheets) of 28 x 34—No. 28 white ledger paper. 500,000 pounds 14 x 12 plain white crepe paper napkins.

Panama Canal Awards

The Whitaker Paper Company will furnish 80 reams (40,000 sheets) of 17 x 22—No. 28, white ledger paper to the Panama Canal at \$1,075.20, bids for which were opened on July 1.

George La Monte & Son will furnish 20 reams (100,000 sheets) of 17 x 28—No. 24, canary Bankers' Check Safety paper at \$189.

To Build Pulp Mill at Shawmut

[FROM OUR REGULAR CORRESPONDENT.]

WATERVILLE, Me., July 23, 1920.—An important announcement is made by the Keyes Fibre Company of Waterville, in the following statement from George Averill, treasurer of the company:

"Keyes Fibre Company, of Waterville, Me., large manufacturer of wood pulp plate and dishes which are marketed under the trade name "Papyrus" have contracted with the Shawmut Manufacturing Company of New York city for the use of the greater part of the power now being developed at Shawmut, Me., and will proceed immediately to erect an electrically operated 40-ton mill for the purpose of grinding wood pulp to be used in their Waterville factory."

The pie plate factory is one of the most interesting of the varied industries in central Maine. The pulp plates long ago showed their superiority over the old fashioned paper plates which they have largely superseded. From all over the world come orders for the "Papyrus" plate of the Keyes Company.

J. Andersen & Co.

21 East 40th St., New York, N. Y.

A-1 Bleached Sulphite

Agents for

KELLNER-PARTINGTON PAPER PULP CO. LTD.
Borregaard, Norway

WAYAGAMACK

KRAFT PULP

Uniform in Quality

Essential for Strength Requirement

The Pulp and Paper Trading Company

21 East 40th St., New York, N. Y.

Sole Agents for United States for

CANADIAN KRAFT, Ltd.

Three Rivers, Canada

BECKETT PAPER CO. TO MAKE EXTENSIONS AT HAMILTON

Concern Has Just Increased Its Capital from \$400,000 to \$1,000,000, and While the Nature of the Improvements Have Not Been Made Public, It Is Certain That They Will Be of an Important Character—Peerless Paper Co. Makes Additional Improvements—Coal Situation Causes Considerable Uneasiness—Paper Bag Concern to Build Factory in Cincinnati.

[FROM OUR REGULAR CORRESPONDENT.]

DAYTON, Ohio, July 19, 1920.—Substantial extensions will be made by the Beckett Paper Company at Hamilton to meet the heavy demand for its products. The detailed plans have not been made known but it is a certainty that the improvements will be of an important character in view of the pressing need of greater facilities to handle the rapidly-increasing business, according to reports.

The company, which is one of the oldest concerns of its kind in the country, has just secured an increase in its capital from \$400,000 to \$1,000,000.

It is expected that the additional \$600,000 will be ample to meet the mill requirements of the company for an indefinite period.

The Beckett company owns one of the best mills, for its size, in the valley and the output of bonds, writings and covers has been absorbed with commendable regularity by the trade. It is supposed that one of the first improvements will be the installation of another machine though as intimated above, details have not been made public, and the exact plans of the company cannot yet be stated.

Thomas Beckett, president of the company, comes from an old and influential family and is regarded as one of Hamilton's most enterprising citizens. He has been largely instrumental in pushing the Chamber of Commerce activities recently, the drive of that organization during the past several weeks having been mostly the result of his energy and co-operation.

He has been known for many years as a friend of the working man and last Winter tendered his employees a reception. The dinner given on that occasion was notable for the number of older men of long tenure who occupied chairs of honor. Mrs. Beckett assisted her husband in arranging for the affair.

The Beckett company was among the first in the valley to recognize the value of welfare work among its employees and has a well-established department devoted to this feature of factory development.

Edward Helwig is the secretary and treasurer of the company and has been identified with the industry for many years. Mr. Beckett has been fortunate in having as associates men of industry and good business judgment. Many mill employees have remained at their posts for twenty to fifty years and have prospered with the progress made by the firm. They have felt, in advancing the interests of their employer, that their services were appreciated and no employer in the valley has a better record of showing his appreciation, it is said, than Mr. Beckett.

Peerless Paper Co. Improvements

The Peerless Paper Company of this city which some time ago added another machine to its equipment, is preparing for further improvements. The firm has just added a new stock of super calenders and a new steam jet ash conveyer, while numerous other improvements have been made. Some have been of a comparatively minor character. However, \$50,000 has been expended for additions and repairs and the money has been well spent.

It developed during the past week that the company's canal lease expires in 1933, this information having been forwarded to

City Manager J. E. Barlow by John I. Miller, superintendent of public works of Ohio. He reported that leases held by F. A. Requarth Company and the Rauh Company have expired.

The city manager is endeavoring to secure data for the purpose of giving the city authorities reliable facts in connection with the proposed plan either to improve or abandon the canal in the central section of the town, as the case may be.

The paper company is assured the use of the water for power or other purposes until 1933 and the character of improvements under way at other paper mill centers indicates that the manufacturers will hold on to their franchise rights until the leases expire.

Coal Situation

The coal situation has caused considerable uneasiness here for some time and just now is a topic of absorbing interest. Municipal officials held a meeting the past week and discussed the probability of forming a coal pool, hoping in this manner to have the local supply handled by a body of manufacturers who would be authorized to send a man to the mines to manage the buying and loading of fuel for Daytonians.

After arriving here the coal would be placed in the hands of a local manager who would make distribution according to needs.

Dealers are discouraging the move, however, declaring that the public will fare better to follow the present competitive methods. David Shank, president of the Dayton Coal Dealers' Association, has stated that the action of the Interstate Commerce Commission the latter part of last week in extending the time for 30 days for the use of open top cars to coal men will go far toward relieving the shortage.

Paper Bag Firm to Build Factory

In paper bag and box circles here a report is current that the Triangle Paper Bag Manufacturing Company of Cincinnati is preparing for an era of factory and sales extension. The company's capital has been increased from \$30,000 to \$50,000.

Miami Tissue Mills Cash Distributed

United States District Judge John W. Peck, has approved the report of Referee Greve on the distribution of cash, notes and preferred stock to creditors in accordance with the composition offered by the Miami Valley Tissue Mills Company of Franklin, which became bankrupt some time ago.

May Test Federal Power Commission Law

WASHINGTON, D. C., July 21.—Rumors have reached Washington recently that certain interests intend to contest the constitutionality of the law creating the Federal Power Commission, owing to the fact that the President signed this law after Congress had adjourned, on the advice of the Attorney General.

O. C. Merrill, who has been appointed executive secretary of the new commission, by Secretary of War Baker, who is the chairman, says that he has not been advised that any such action will be taken, but that, on the contrary, he is being informed by all of those interested that the law will be complied with.

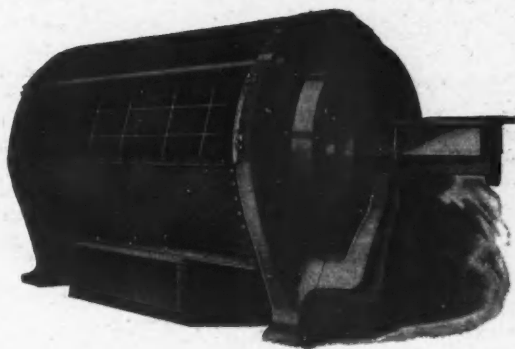
Up to the present time no meeting of the commission has been held, but officials are going ahead with the compilation of tentative rules and regulations which will undoubtedly be approved by the commission in the very near future. It is believed that the law creating the commission is very much more comprehensive than was at first believed.

To Seek Canada's Aid on Paper

NEW LONDON, N. H., July 19, 1920.—The need for international co-operation between the United States and Canada in regard to the shortage of print paper will be discussed at a New England forestry conference to be held at Colby Academy here August 24 to 26, it was announced today.

“IMPCO” TAILING SCREENER
FOR SCREENING GROUND WOOD TAILINGS

**Very Low
 Power
 and
 Upkeep Expense**



**Delivers
 Rejections Free
 from Good
 Stock**

ANOTHER UNIT OF OUR CLOSED SYSTEM FOR PULP SCREENING
WRITE FOR FULL DETAILS *CORRESPONDENCE A PLEASURE*

IMPROVED PAPER MACHINERY CO. Nashua, N. H.
SHERBROOKE MACHINERY CO., LIMITED, SHERBROOKE, CANADA

LET US SUPPLY YOU

**NEWPORT SILICATE
 OF SODA**

**40° BAUME 42°
 1 DRUM or 100 TANKS**

PROMPT SHIPMENT FROM CARROLLVILLE, WIS.

NEWPORT CHEMICAL WORKS, Inc.

**120 BROADWAY,
 NEW YORK CITY**

**GENERAL OFFICES:
 PASSAIC, N. J.**

PAPER DEMAND IN TORONTO IS SOMEWHAT LESS ACTIVE

As Mills, However, Are so Greatly Behind in Filling Their Orders, They Welcome the Decrease in Orders—Canadian Paper Board Co. Incorporates With Capital of \$5,000,000 and Is Planning to Make Important Extensions—To Erect Plant for the Manufacture of Pulp From Straw in Saskatchewan—Spruce Falls Pulp & Paper Co. Will Start Construction of Plant Immediately.

[FROM OUR REGULAR CORRESPONDENT.]

TORONTO, Ontario, July 19, 1920.—At last business in the paper line has slowed up and the mills are now enabled to catch up slowly with production. As it is they are months behind in deliveries and naturally welcome the decrease in orders, which have not been nearly as numerous during the past few days as they have for the weeks that have gone by. Another phase of the situation is that raw stock for coated paper mills is difficult to secure and some plants are now operating only three and four days a week for this cause, and have taken off their double shifts.

Prices are still advancing and now create no surprise, and the wonder is when the upward climb will end. The net figure for paper bags of all kinds has gone up about 25 per cent. The following discounts now prevail: Manila bags, 35, 10 and 5 in car lots, to jobbers; kraft bags, 50 and 5; white confectionery bags, 20, 20 and 5. There has also been another advance in toilet papers, the list prices and also the discount being advanced, which means a net raise of 15 per cent. The discount in the single case lot has been jumped from 15 to 33 1-3 per cent, and in car lots to 33 1-3, 20 and 10, the former discount being 15, 20 and 10.

The growing figure for pulp and pulp wood, bleaching powder, coal and paper stock has resulted in a sharp advance on all lines of book papers. The latest list put out by one of the largest mills for book papers, is now 16 cents, in car lots, for No. 1 super calendered; 15½ for No. 2, and 14¾ for No. 3, with machine finish half a cent less. Sulphite bonds have gone up 2 cents and are now commanding 17½ cents for white, 18½ for light tints, and 19½ for dark tints. The lowest priced writing paper now on the market is bringing about 13 cents in car lots. Ground wood pulp is very scarce and is selling at \$150 per ton in the open market, while sulphite, bleached, is commanding from 9 to 12 cents a pound, and in some cases as high as 14 has been offered. Easy bleaching is selling from 8 to 10 cents. For the first time in years No. 1 manila is selling at half a cent above kraft paper in car lots, and is practically not obtainable. Sulphate pulp is fetching from \$140 to \$160 per ton. There has been no change in the figure for kraft during the past few days, which is going at 12 cents in car loads and for small lots some jobbers are obtaining as high as 15 to 18 cents a pound. Northern Ontario is bound to enjoy a great pulp and paper boom within the next two or three years, as plants that will turn out ground wood pulp are about to be erected at Fort William, Port Arthur, Haileybury, Nipigon and Kenora, the total ultimate output of which will be between 600 and 1,000 tons. Paper mills will follow later. Pulp wood cutting is to proceed in Northern Ontario on a scale never known before, owing to the high rates prevailing for wood. There has been a falling off in the demand for rags and waste papers, the mills being fairly well stocked up at present. Cotton cuttings are in good requisition, both in Canada and the United States. Roofing stock is rather quiet.

Paper Board Company Is Expanding

The Canadian Paper Board Company has been incorporated with a capital of \$5,000,000, and will have its headquarters in the Con-

federation Life Building, Toronto. This will be the new name of the Canada Box Board Company, which has plants at Frankford and Campbellford, Ont., and in Montreal. Its present production of board is about 100 tons a day, and the mills are far behind in deliveries. A new concrete, ground wood pulp plant is being erected at Frankford, which will be equipped with four grinders and four wet machines, and will turn out about 25 tons of pulp a day for the various mills of the company. The new plant will be in operation in September. It is understood that it is the intention of the company to add another machine to the Frankford mill, which would increase the capacity there to 60 tons of board per day. This installation will be carried out as soon as the new pulp plant is completed. The Canada Box Board Company has bought the McDougall property next to it in Montreal to take care of future extensions which may be made. J. G. G. Kerry, of Toronto, is the president of the company, and David F. Robertson of Montreal, general manager. It is the intention of the organization to erect another board mill in Ontario with a capacity of about 40 tons, but a definite location has not yet been decided upon.

Kenora Helping Big Pulp Plant

Peter Heenan, M. P. P. of Kenora, was in Toronto this week and waited upon Premier Drury with a request for certain water power concessions for the Lake of the Woods Pulp and Paper Company, which proposes to erect a pulp and paper mill at Kenora in the near future, with an output of 150 tons of news print daily. Kenora is anxious to help the company, with which E. W. Backus is associated, because the town has sold a large amount of bonds on the strength of the concern erecting the industry there. The Hydro-electric Power Commission must give its permission before the request can be granted. The company will sell at least 15 per cent of its output in Canada. Application has been made to the Ontario government by the same company for an additional pulp wood concession of nearly 2,500 square miles, and water power rights on White Dog Falls. E. W. Backus, who was in Toronto during the past week, agreed that if the application for the pulp wood and water power privileges was granted, the new paper mill to be erected at Kenora would supply its proportion of the domestic news requirements. The Ontario daily publishers are opposed to the application, in view of the refusal of the Backus interests to supply news print in Canada at the present time from their Fort Frances plant, even at current contract prices for export to foreign countries. They contend that it is not to the public interest that the organization should be granted extra concessions.

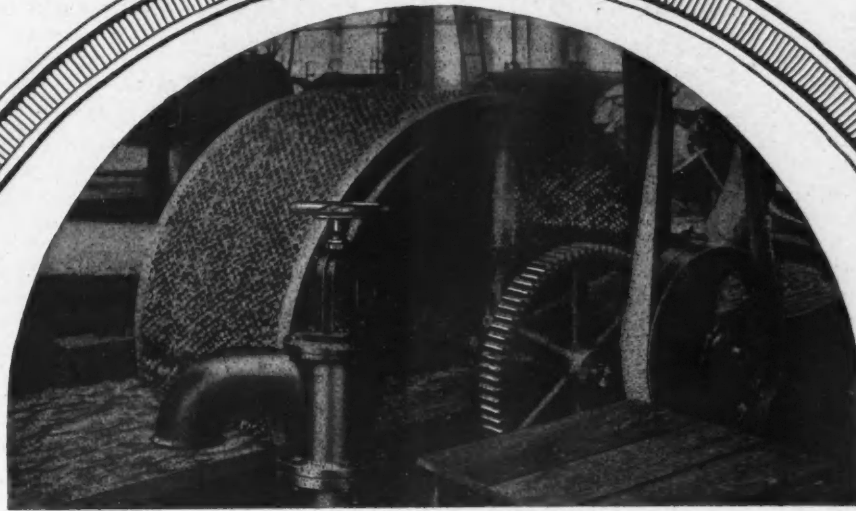
Possibilities of Pulp from Straw

W. R. Phillips, a former Mayor of Trenton, which town is located about 100 miles east of Toronto, has interested several Toronto capitalists in the erection of a pulp plant in Saskatchewan, and is now in the south of that province making a preliminary survey for the establishment of such an industry. Thousands of tons of straw are now burned every year on the prairies, which, it is contended, could be profitably utilized in the making of pulp and paper. The new plant, if the project goes through, will cost a million dollars. There is an ample supply of lignite coal near by for fuel purposes.

Timber Limit Open for Prospecting

The Gillies timber and pulp wood limits on the French river in Northern Ontario will shortly be thrown open to the mining prospector. Some time ago these limits were withdrawn from prospecting, but practically the whole area, with a reservation in the south, may now be entered by prospectors by virtue of an order-in-council passed by the provincial government on the advice of Hon. Beniah Bowman, minister of Lands and Forests, for the

(Continued on page 28)



Greater and Better Output at Lower Cost - *Assured!*

Not only is output doubled, quality bettered, power cost halved, labor saved, time saved and floor space conserved by the *Bird Continuous Beater Attachment*; but the need for new, costly, cumbersome machinery is eliminated entirely.

The *Bird Attachment* is simply designed; ruggedly made. Can be easily attached to any ordinary tub—over night. Needs only slight attention—small space. Pays for itself many times over the first year.

Write us for "Continuous Beating Catalog A," which details the advantages, operation and construction.

BIRD MACHINE COMPANY EAST WALPOLE MASS.

Western Representative
T. H. Savery, Jr., 1718 Republic
Bldg., Chicago, Illinois.

Canadian Builders of Bird Machinery
Canadian Ingersoll-Rand Co., Ltd.,
260 St. James Street, Montreal, Can.

88-121

Continuous Beating

PAPER DEMAND IN TORONTO IS SOMEWHAT LESS ACTIVE

(Continued from page 26)

province, who is now on an extended trip through the northwestern parts of Ontario.

Pulp Company Gets Nova Scotia Coal

Owing to the scarcity of hard and soft coal an agitation is now on for the greater development of the coal mines of Canada, in order to assure industries of a sufficient supply. Several experiments are now being tried out, and one of the most interesting of recent date was an all-rail shipment of 2,000 tons of Nova Scotia coal to the Mattagami Company's pulp mill near Cochrane in Northern Ontario on the National Transcontinental. It has been found that the cost, including freight, is about the same as Pennsylvania coal, plus the duty, laid down at the same point. This apparently demonstrated that if the duty on bituminous coal remains, Nova Scotia coal can be shipped to Ontario at a profit even by rail, and much more advantageously by water.

Spruce Falls Co. Plans Take Shape

As announced last week, the erection of a large pulp and paper mill at Kapuskasing, Ont., is to be gone on with, and construction will start without delay. The former project was to have been carried out by the Spruce Falls Pulp and Paper Company, which nearly three years ago obtained the right to cut the pulp wood and other timber on the Kapuskasing river limit, from the Ontario government. The limit consists of 1,740 square miles in the districts of Temiskaming and Algoma. The figures agreed upon was 75 cents per cord for all kinds of pulp wood, plus the usual government fees. The Kimberly-Clark Company, of Neenah, Wis., has now become largely interested in the project and the officials of that company spent the past week in Toronto conferring with the provincial authorities in regard to proceeding with the erection of the pulp and paper plants, which will be located seventy miles west of Cochrane. The name of the new company will be the Spruce Falls Company, Ltd., with a capital stock of \$7,000,000, and an office has been opened in Toronto at 9 College St., with Elihu Stewart, one of the directors of the new company and vice-president of the former company, in charge. F. J. Sensenbrenner, of Neenah, Wis., is president of the new organization, S. A. Mundy of Bradford, Pa., vice-president, and J. C. Kimberly of Neenah, Wis., secretary. George F. Hardy, of New York, is the consulting engineer. The falls, two and one-half miles north of Kapuskasing, on the river of the same name, which have a fall of 35 feet, will be developed at once and a concrete dam erected. There is another important fall nine and a half miles south of 75 feet. The company will erect a saw mill for getting out timber for the pulp and paper plants and the sulphite mill, and the ground wood mills will be erected first. The former will have a capacity of 75 tons daily and the latter about the same and, it is hoped to have both plants in operation within a year. The news print mill will eventually be equipped with three machines. Plans have been made for extensive logging operations this fall and winter to get out sufficient pulp wood, while a large quantity will be purchased from the settlers, who are now well satisfied that the long-delayed project is going to go ahead in real earnest.

New Paper Mill for Port Arthur

It is the intention of the Provincial Paper Mills Company, Toronto, to proceed next spring with the erection of a forty-ton book paper mill at Port Arthur. Preliminary work has been in progress for the past six months, but delay in the delivery of machinery, owing to the overcrowded condition of the paper equipment plants, has made definite plans for the completion of the industry impossible. The company has 140 acres in the city of Port Arthur, where it has operated a sulphite pulp plant of 60 tons capacity for several years, which has been shipped principally to Wisconsin and Minnesota.

Personals and General Jottings

The Fred W. Halls Paper Company, 250 Richmond street, west, Toronto, wholesale paper dealer, has purchased the Toronto Hat Company's building at 257 Adelaide street, west, consisting of five stories and a basement, at \$80,000. The new quarters will be used by the purchasers as a warehouse and possession will be taken in September. The Fred W. Halls Company has expanded rapidly of late years and more room was required for the growing business of the concern.

John Mather, for several years with the Wayagamack Pulp and Paper Company, Three Rivers, Que., and lately with the Canadian Export Company, Montreal, was in Toronto recently. He has gone west to take the position of general manager of the Whalen Pulp and Paper Company, Vancouver, B. C.

J. H. Black, of Toronto, has been spending some time in Northern Ontario looking into the matter of a suitable location for a ground wood pulp plant. Among the towns most favored is Haileybury.

George Erskine, Toronto, Canadian representative of the George H. Mead Company, Dayton, Ohio, was in Montreal last week attending a meeting of the board section of the Canadian Pulp and Paper Association.

P. L. Colbert, manager of the Valleyfield Coated Paper Mills, Valleyfield, Que., has been spending his holidays in Toronto, Brampton and other points in Western Ontario on a motor tour.

William Gorman, of Montreal, eastern representative of the Provincial Paper Mills Company, Toronto, was in the city during the past week, calling upon his numerous friends in the trade.

Alex Bunton, of the Buntin, Reid Company, wholesale paper dealers, Toronto, and family are spending the summer months at Murray Bay, Que.

F. L. Ratcliff, of the Ratcliff Paper Company, Toronto, has returned from a 2,500 mile motor trip through the White Mountains and the New England states.

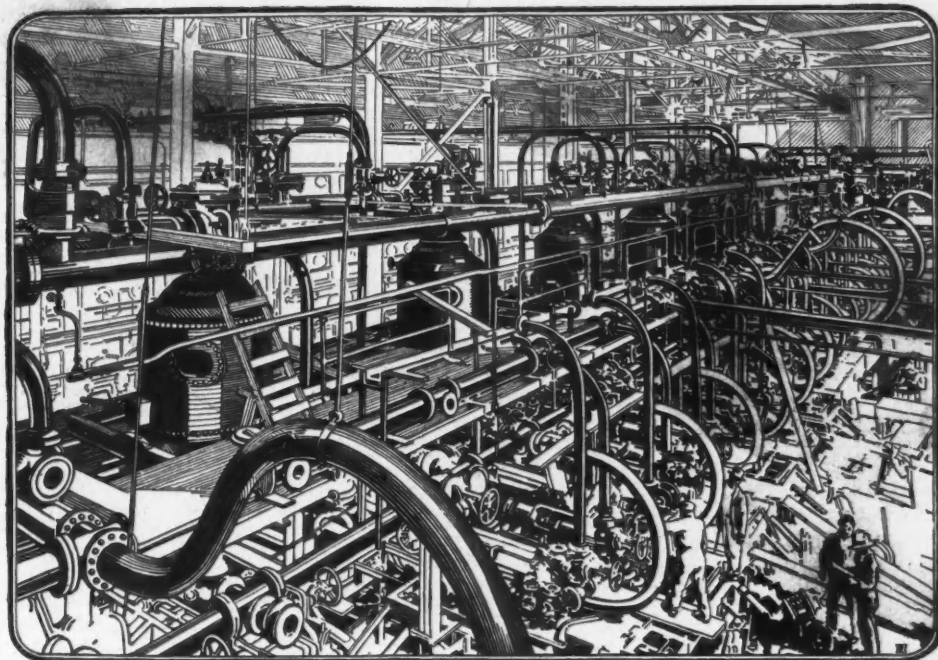
Word has been received in Toronto that Major L. N. Seaman, who has been in charge of the timber testing department of the Canadian Forest Products Laboratories, Montreal, has resigned and intends leaving shortly for India, where he has accepted a responsible position with the Forestry Department of that country.

The Kennedy Carlinger and Bag Company, Ltd., will shortly begin operations in Woodstock, Ont. The concern has purchased the plant of William Stone, Ltd., in that city, which is now undergoing repairs. The Kennedy company will turn out linings and coverings for grain cars, newspaper bags, etc.

Latest Objects of German Research

BERLIN, June 20, 1920.—The experiment and research station at Eberswalde, conducted by Prof. Schwalbe, Germany's leading pulp and paper expert, will be continued without curtailment, thanks to the contributions appropriated by the Association of Pulpmakers, as well as by the Association of Papermakers. Prof. Schwalbe will work in conjunction with the Technical Committee of both associations. Prof. Schwalbe's program for the near future comprises the following subjects:

1. Study of cellulose bleaching, principally of oxycellulose, formed by super-bleaching.
2. (a) Composition of soda cellulose, so much less investigated than sulphite matter and cotton.
(b) Effect of oxygen of the air upon cellulose in alkaline reaction. To determine whether there are any oxydations, as has been claimed.
3. Bleaching of semi-cellulose, made of hemp and flax scrapings.
4. Chemical composition of the flax fibre, not yet determined by modern means of research.



Faithful reproduction of a great installation which is mining a 10,000,000 tons sulphur deposit in Texas.

Hot water at a temperature above the melting point of sulphur is forced down to the ore body through driven wells 800 feet to 1000 feet deep. The molten sulphur is then pumped to the surface, allowed to solidify, broken up and sold as refined product—mining, smelting and refining in one operation.

ON installations dearest to advanced science—there's where you find Goodrich "Superheat" Packing. "Superheat," as developed by Goodrich, is the result of fifty years of research, experience and engineering skill. Made of long fibered asbestos and specially compounded rubber, it is the perfect packing. Has been tested to 800 pounds steam pressure. Singularly adapted for lines carrying superheated steam, gas, acids, ammonia and chemical solutions. Buy it by name—"Superheat." Write for particulars.

THE B. F. GOODRICH RUBBER COMPANY

Akron, Ohio

Goodrich "Superheat" Packing

Goodrich makes a packing for every class of service—and a full line of pump valves, gaskets, diaphragms and other rubber fittings and inserts used in mechanical installations.



JOBGING DEMAND QUIETER IN PHILADELPHIA MARKET

Falling Off in the Demand Is Especially Marked in Book and the Better Grades of Paper—This Condition, However, Is Attributed Solely to the Usual Mid Summer Easing Off—Stock Dealers Encounter Numerous Difficulties in Shipping Material Out of Town—Russell Products Corp. to Start Plant for Coating of Paper—Universal Waste Products Co. Buys Building.

[FROM OUR REGULAR CORRESPONDENT.]

PHILADELPHIA, July 20, 1920.—Though there is consensus of opinion that the jobbing business during the past week fell off markedly as compared with the preceding week, particularly in book and the better grades of papers, the result is attributable solely to the usual midsummer easing off. Comparison must be made with the number of orders last week and the corresponding period of last year when activity continued almost unbroken to show the decline because if the story of last year and of this is read only in terms of dollars and cents the contrast is in favor of 1920. In other words while less business is being done receipts are greater due, of course, solely to the very marked increases in prices during the twelve months. And while there may be few entries in the order books as the result of this week's business they are still well filled with back orders. If only the mills can produce and the railroads will deliver, there will be plenty of business to keep the trade active all summer long.

Transportation Problem More Acute

The transportation problem is the most acute ever experienced by the trade. Matters have grown worse during the week rather than better. Embargoes were taken off at times, it is true, but they were put on again just as frequently. Visitors from out of town, particularly those who use the Reading system tell of miles and miles of cars laden with coal standing on sidings up-State and yet in the city the coal shortage is severe. It is doubtful if any of the local paper mills are averaging more than two full days a week. Close-downs are frequent and labor organization is kept together only because the conditions of enforced idleness apply to all the paper mills, and other industries, of course, are likewise affected.

Stock Dealers' Difficulties

Stock dealers have experienced all kinds of difficulties in their efforts to get material out of town. If the shipment is made to a consumer on the railroad line of original shipment the difficulty is not so great but if transfer to a connecting line is necessary, the receiving line will not accept the cars until there has been secured from the consignee a permit showing that the connecting railway will receive the goods. Despite this restriction, however, the supply of paper stock which is coming in has not been so great as to cause any accumulation and prices are not only firmly holding their own in the less wanted grades, but during the week advanced on many grades principally hard and soft white shavings, mixed, ledgers, the various grades of manilas, mixed and chips.

The distributors look to still further advances by the mills. The rejection of new business and the total absence of salesmen looking for orders, say the jobbers, is positive proof of the millmen's talk that they are booked up far in advance. Until the mills begin to hunt up business, no falling off in prices is expected. Strength of the paper business is evidenced, say the distributors, by the firm maintenance of prices at this time of mid-summer falling off in sales.

Shortage in Many Lines

Shortage in several lines is still acute and with no improvement in sight. Butchers' water finish fibre is said to be almost entirely out of the market. All the manilas are scarce and high as are the Krafts of which No. 2 sold during the week for the price at which No. 1 was offered when the month began. The better grades of book papers are in fairly abundant supply the restricted demand considered, but there is a shortage in the cheaper and lighter weights of books and bonds. Writing papers continue in fair demand and with prices unchanged. The one feature of the week's business which has been pleasing to the whole trade is that collections remain good. Tightness of money in financial circles has had no appreciable effect on collections so far as trade experience during the past week was concerned.

New Coating Paper Plant

The Franklin Paper Company, Inc., of 718-720 Cherry Street, has purchased a six acre plot, together with four factory buildings thereon, near 6th and Kaighn Avenue, Camden, and is erecting an additional building 40 x 90 feet. When completed, the buildings will be used for the conversion and coating of papers and for the manufacture of artificial leathers. To operate the new enterprise there has been organized a selling division of the Franklin Paper Company, Inc., to be known as The Russell Products Corporation of which Horace R. Hillegas, vice-president of the Franklin Paper Company, Inc., is president, and Harry A. Jacobs, president of the Franklin Paper Company, Inc., is secretary and treasurer. Machinery is now being installed in the buildings, and operation will begin at an early date.

It has been known for some time that the Franklin Paper Company, Inc., has been specializing on coated papers for the trunk and suit case line, as well as in artificial leather used for various purposes, and the business in these lines has increased to such large proportion that Messrs. Hillegas and Jacobs have organized the Russell Products Corporation to manufacture these specialties, for which there is a large demand. Messrs. Hillegas and Jacobs are well known throughout the paper trade.

There will be no change in the Franklin Paper Company, Inc. The office and warehouse still are at 718-720 Cherry Street, and the business will be carried on as heretofore.

Universal Waste Products Co. Buys Building

Transfer was made during the week by the S. B. and B. W. Fleischer Co., Inc., of the factory warehouse and stable extending from 2546 to 2608 Callowhill street on a lot 171 feet 6 inches by 240 feet, to J. M. Walsh who in turn conveyed the same to the Universal Waste Products Company subject to ground rents of \$1,120.50 per year and a mortgage of \$100,000. This property is now being used by the Universal Company for the operation of a paper stock plant recently described in these columns.

General News of the Trade

John Blood & Bros., Inc., last week sold to the Harvey Fibre Carpet Company a two-story and three-story factory on a lot 110 feet by 150 feet on the south side of Allegheny avenue between Janney and Witte street for an undisclosed consideration. The assessed value is \$30,000.

The rag and paper stock warehouse of H. Feldman & Co., 324 South Delaware avenue was completely destroyed by fire last week entailing a loss of upwards of \$60,000. Three alarms of fire were turned in before the flames were drowned out.

A second group of Charles Beck Company employees spent last week in the mills of the Strathmore Paper Company studying production and sales appeal of the product. Those who made the trip were Purchasing Agent Andrew Simon and salesmen John Hoffman, William Rossell, C. R. Firth, Harry Rees and Edward Linker. The Beck Company has added to its line a cockle finish Stability Bond in 20 pound substance.

(Continued on page 54)

The World Our Market



In foreign markets our trade mark on every bundle has made possible the selection of reliable co-operating distributors.

FRED C. STRYPE
QUALITY PAPERS NEW YORK

INTERSTATE
Pulp & Paper Co.
(INCORPORATED)
1050 GRAND CENTRAL TERMINAL,
NEW YORK, N. Y.

P U L P
AND
P A P E R

Domestic and Export

Newsprint Book Writing
Bond Wrapping
Ledge

KVP

EYE'LL SAY SO!

When the eye approves, the battle is half won. If a food product *looks* appetizing and wholesome, the consumer really hopes it will *taste* good.

An attractive KVP Waxed Paper wrapper or sealer makes the food product more appealing and protects its good quality.

Eye'll say that KVP Waxed Paper makes sales and profit.

**Kalamazoo Vegetable
Parchment Company**

Kalamazoo, Michigan
"World's Model Paper Mill"
Makers of waxed and vegetable parchment paper



Extra Heavy Brass Valves Fitted With Renewable Steam Metal Discs

The four valves illustrated are Jenkins 1½ inch. Extra Heavy Brass Globe Valves on the steam line used for blowing soot. They are fitted with Jenkins Renewable Steam Metal Discs, and work under a 150-pound pressure.

Jenkins Extra Heavy Brass Valves are made in various types and sizes suitable for working steam pressures up to and including 300 pounds, or water and air up to 500 pounds. They are carefully designed to give maximum service and satisfaction—and do. Supply houses everywhere carry Jenkins Valves—know them by the Jenkins name and "Diamond Mark."

JENKINS BROS.

New York Philadelphia St. Louis Washington Montreal
Boston Chicago Pittsburgh San Francisco London
Havana



NEW GERMAN SCREENS

Foreign developments had no influence upon Germany's paper making industry during and since the war, for the nation was cut off from the rest of the world. This "mental blockade" is still in force to a material extent. In England many voices have been raised for lifting the "mental blockade" and American university presidents have signed a similar appeal to American publishers.

From within the "mental blockade" Fritz Hoyer describes the latest German achievements in the improvement of the screen, without reference to and practically in total ignorance of what has been accomplished in other countries during and since the war period. Hoyer, in true German style, begins at the beginning and tells the whole history of the screens. He tells of the ancient and the antiquated types. But all of them became failures, he says, when they no longer kept abreast of the paper making machine. When paper making machinery was installed that consumed 30,000 kilograms of stock per day the old style screens became obsolete. And now those 30,000 kilograms are left in the shade by records that are larger by far. What Hoyer describes in the *Papierfabrikant* is a screen that disposes of 30,000 kilograms and more in twenty-four hours.

Formerly, to do the same amount of work, several screens were necessary. Now only one apparatus is used, which simplifies the process, consumes less power, diminishes wear and tear and, by shortening the channel through which stock has to pass, reduces its loss to a minimum.

There are different types of large screens. One construction utilizes a swinging cylinder to drive the stock through a sorting cylinder which submerges to 70 per cent. and is not shaken. The stock moves from within to without. The vibrating cylinder, moving within the sorting cylinder, is hollow. Figures 1, 2 and 3 show this machine, cross-cut as well as side view.

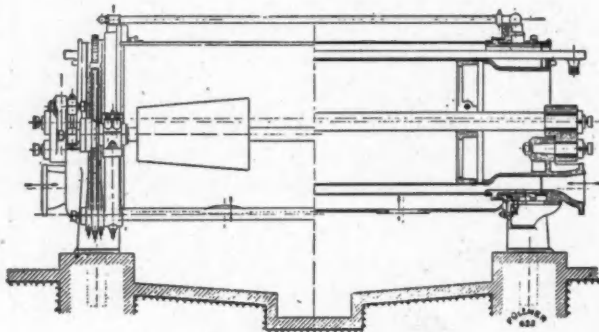


FIG. 1.

Cleaning of the slits, one of the most important features of screening machinery, is brought about by a pipe squirting water from the outside to the inside. The pipe is placed above the cylinder. Water and knots are removed by a rill running within the sorting cylinder. The sorting cylinder has a mantle divided into two parts, easily taken off.

The inner cylinder is vibrating fast, thereby causing a suction and pressure effect, the same as in a pump. The sorting cylinder, in submerging, permits 70 per cent. of its surface to be utilized. The machine is adjustable. By accelerating or retarding the pumping movement of the inner cylinder the machine may be adapted to any grade of pulp, coarse or fine. In the same manner

productivity of the machine can be increased or decreased. These changes can be made without stopping the machine.

Stock enters the sorting cylinder on both sides, passes through it and leaves the trough at its lowest point, as pure matter without knots and other alloys. There is no foam nor any deposit of stock, for trough and sorting cylinder are too small as to space. This, again, causes a brisk current to flow, augmented by the

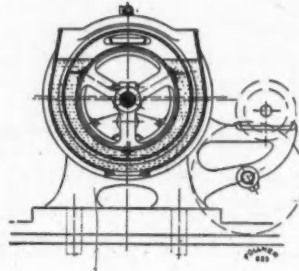


FIG. 2.

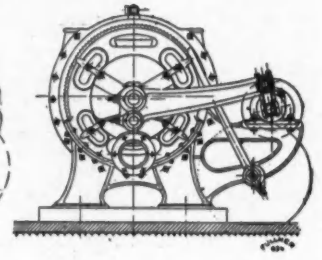


FIG. 3.

pumping effect of the swinging cylinder. There are no moving organs in touch with the matter, and consequently there can be no "cats," not even with long fibred stock.

Cleaning and change of color cause little loss of stock, as one-half of the trough is taken up by the swinging cylinder. As the vibrating cylinder floats, pressing upward, only little power is needed. One or two horsepower is sufficient.

There are three sizes of this screen. The smallest has a cylinder of 800 millimeter diameter, 2,000 millimeter long. This means a working surface 3.5 square meters. The daily product amounts to from 10,000 to 18,000 kilograms. The middle size has a cylinder of 1,000 mm. diameter and of 2,300 mm. length. Its working surface is 5 square meters and its daily capacity from 15,000 to 25,000 kilograms. The largest size has a cylinder of 1,200 mm. diameter and 2,500 mm. length. Its working surface is 6.5 square meters and its daily capacity up to 35,000 kilograms and more.

With another type of screen vibrating plates, instead of a vibrating cylinder, are employed. Figure 4 shows a cross-cut of the machine. Here the stock passes through the sorting cylinder from without to within, entering the trough by an open conduct on the side and pressing through the slits in the sorting cylinder. Construction of the trough permits utilizing the whole width of the cylinder. Adjustable swinging plates are driving the matter through the cylinder sieve. Without stopping it the machine may be adapted to the grade of matter.

The cylinder is cleaned by an interior spray pipe. The water washes the knots and other impurities into a gutter on the outside, while the drip water in the interior is caught by a pan. Purity of matter depends upon clean slits. Water pressure in spraying, therefore, should be re-enforced by pumping. This machine has a capacity up to 57,000 kilograms per day. It varies according to the width of the slits.

A third type follows an entirely different principle. It discards vibrating cylinders and vibrating plates that are driving stock through the sorting cylinder by pumping effect, without shaking the cylinder. Instead, this type provides for the trough moving around the cylinder in rapid elliptic curves. Figure 5 shows a cross-cut of the machine. The unshakable sorting cylinder is

(Continued on page 34)

Groundwood
Sulphite
Kraft Pulp
for prompt or later deliveries
—
Quotations furnished
against specific inquiries
—

M. GOTTESMAN & COMPANY

INCORPORATED

18 East 41st Street

NEW YORK, N. Y.

Established 1888

Recent Incorporations

TRINITY PAPER MILLS, INC., Dallas, Texas.—Capital \$1,000,000.
 ESSEX SPECIALTY PAPER COMPANY, Boston.—Paper; capital,
 \$100,000. Incorporators, Thomas Marshall Dix of Everett, M.
 Bell of Maiden.

NEW GERMAN SCREENS

(Continued from page 32)

the only organ which is submerged in matter. Thus forming of "cats" is impossible. The slit cylinder revolves slowly, while the slits are continuously cleaned by a spray pipe placed within. Thus stopping the machinery for the purpose of cleaning the slits is eliminated. Collecting gutters within and without dispose of spray water and impurities, while a rill at the bottom of the trough

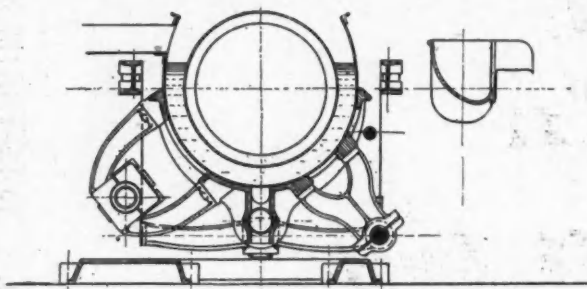


FIG. 4.

removes heavier than water impurities. The radii of the elliptic moves may be enlarged or diminished, thus permitting adaptation to the grade of matter. As the cylinder is not shaken no knots can be driven through the slits by sheer force.

Matter enters the knotcatcher at the whole width of the trough, penetrates the slits from without and runs through a syphon-

shaped pipe into the exit box. As the slit cylinder submerges a large surface space is being utilized. Its effect is further reinforced by the elliptic moves of the trough. No parts of the machine are above the cylinder which, accordingly, may be changed quickly without hindrance.

Fritz Hoyer, in conclusion, says these three types of machinery represent most valuable improvements, inasmuch as they conform to the high capacity required today, assure purity of matter and permit rapid adaptation to the grade of pulp desired. At the same time the machines are said to excel by their simplicity in construction and by their reliability in running steady without interruption. The German paper industry considers these new machines, new as to size and capacity, as its most important weapon in its course of reconstruction and, perhaps, in its renewed scramble for foreign markets.

News of the Holyoke Trade

[FROM OUR REGULAR CORRESPONDENT.]

HOLYOKE, Mass., July 19, 1920.—The Hampdem Glazed Paper and Card Company has awarded the contract for the enlargement of its plant to the Casper Ranger Construction Company. The plan is to raise the two and three-story parts of the mill to full four stories making a main building 92 x 291 feet. The cost of the additions is figured to approximate \$165,000. While the business of the company has been handicapped the past few months seriously by transportation difficulties the future is considered as very encouraging and the concern is having nearly all of the business it can handle.

The employes of the American Pad and Paper Company, about 75 in all, were given an outing and picnic to Forest Lake, Palmer, Saturday. There was a baseball game and other sports. The trip was made in auto trucks and automobiles.

A building permit was issued at the city hall this week to J. & W. Jolly, Inc., for their new foundry. This is to be a two-story concrete and brick building on South East street and will cost about \$50,000. The contract has been let to the Casper Ranger Construction Company.

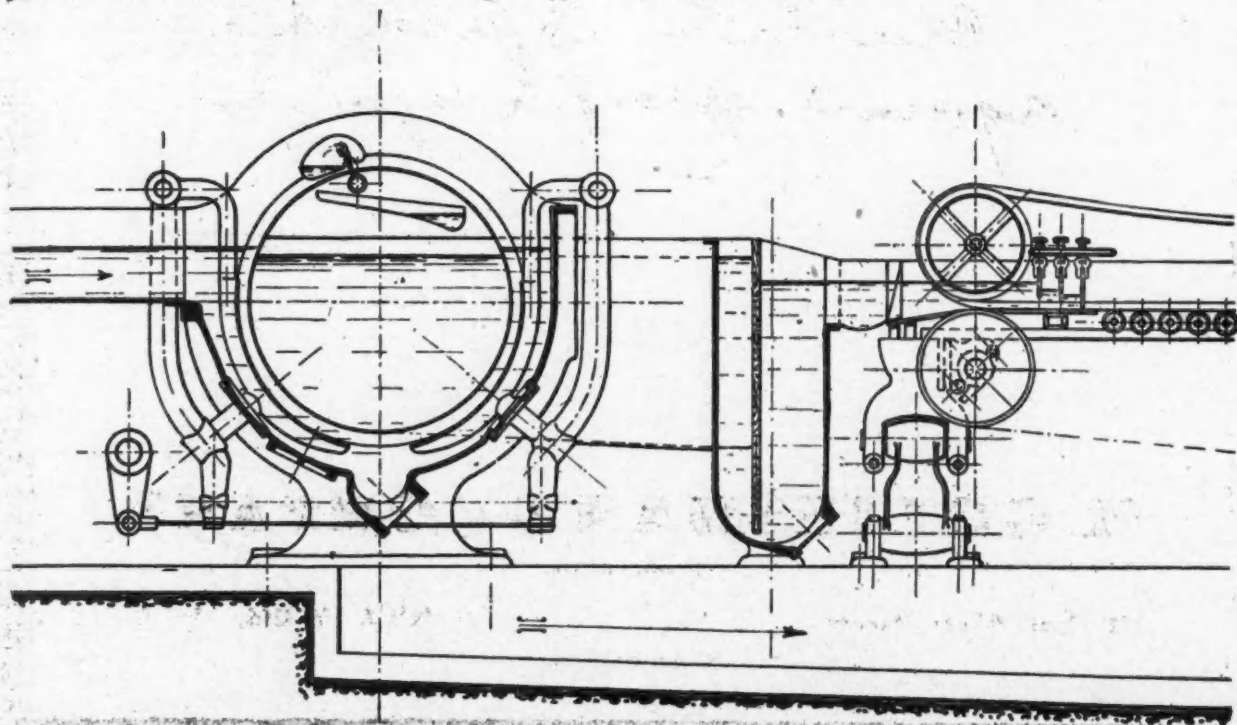


FIG. 5.

**HAMMERMILL
BOND**

**HAMMERMILL
COVER**

**HAMMERMILL
LEDGER**

**HAMMERMILL
SAFETY**

HAMMERMILL PAPER CO.
ERIE, PENNSYLVANIA

EASTERN OFFICE 291 BROADWAY NEW YORK CITY



Is made to meet the need for Rope and Twine that can be relied upon absolutely.

"American" as applied to Cordage and Quality are synonymous terms. Throughout every step of the manufacturing process, the same great care is exercised, so that the finished product can be used with the confidence that it will be satisfactory in every way.

Send for Our General Catalogue, Prices and Samples
Address Dept. M.

AMERICAN MFG. CO.

MILLS AND SALES OFFICE: **BROOKLYN, N. Y. CITY**
NOBLE AND WEST STS.

Largest Makers of Commercial Twines and Rope in the World



100 Pound Coil "American" Paper Makers' Twine Stranded Many Ends

New York Trade Jottings

The American Paper Mills Corporation has removed its executive offices to 237 Lafayette Street. Telephone, Spring 9733.

Corin Brothers, Inc., have removed their office from Grand Central Palace to 2 West 47th Street, Telephone Bryant 8333.

Tyler S. Stauton, salesman for Strehl-Otens Company, has returned from a pleasant vacation spent at his home in Norwich, Conn.

H. F. Harrison, sales-manager of the West Virginia Pulp and Paper Company, will start July 24, on a ten day motor trip through West Virginia.

The Pulp and Paper Trading Company, 20 East 40th Street, has filed notice with the Secretary of State at Albany, N. Y., of an increase in its capital stock of \$100,000 to \$500,000.

C. L. Winter will be the Western representative of the sales department of the Claremont Paper Company, Inc., and the Groveton Paper Company, Inc. He will open his office at 558 Rookery Building, Chicago, on August 2, 1920.

Among the concerns admitted to membership in the Merchants' Association of New York last week was the William G. Willmann Paper Company, 51 Beekman Street. The total membership of the association as of June 16, 1920, was 6,610.

Dr. Hugh Baker, secretary of the American Pulp & Paper Association, has returned from Chicago, where he spoke before a meeting of the Writing and Book Paper Manufacturers' Association, held July 15 and 16, on the pulpwood situation.

Raymond S. Strehl, who is the manager of the Chicago office of Strehl-Otens Company, is East on a ten-day visit to the home office in New York. While East he is attending the Paper Box Manufacturers Convention, which is being held at Reading, Penna.

Parsons & Whittemore, Inc., New York paper exporters, announce the opening of their London office and have appointed Mr. Hugh Doherty manager. Encouraged by the success of the San Francisco branch, opened about six months ago, the company deemed it advisable to establish a London office to meet the growing demand in England for high grade American papers. The San Francisco office is under the able management of Mr. Sidney Bennett

Interest in L. W. Burdick's Extradition

WATERTOWN, N. Y., July 19, 1920.—The arrest in England of Leslie W. Burdick and his possible extradition to this country is viewed with interest by members of the Remington Holding Corporation of this city, which has an interest in his case.

At the time of his disappearance, about two years ago, he was president of the First National Bank of Gouverneur. In March, 1919, the Remington Holding Corporation, through Attorneys Cobb & Cosgrove, brought action against the bank to recover \$15,720, alleged to have been appropriated by Cashier Leslie W. Burdick, who was advanced to the office of president before escaping. The case is still pending and his return may have important bearing upon the outcome. The case has never gone to trial, it being postponed from time to time on request of the defendants. The bank is in hopes of recovering the money from Burdick.

Burdick was secretary and treasurer of the Remington Holding Corporation and was at the time cashier and member of the discount committee of the bank. It is charged in the complaint that he made out a promissory note for \$15,000 as secretary and treasurer of the Holding Corporation, endorsed it, and obtained the money personally. It is charged that Burdick was never authorized to float the note and that the bank is liable for the amount with interest as it should have known that the note was not legal.

Among the directors of the Holding Corporation were Mr. Burdick, Nelson R. Caswell and A. F. Wardwell, but the latter are said to claim that they knew nothing of the note placed in the bank by Mr. Burdick. In fact, it is claimed no one in the corporation, save Burdick, had knowledge of the note until Nelson R. Caswell, on January 18, 1919, deposited in the bank \$13,500 in dividends on the Aldrich Paper Company stock held by the holding company. Immediately the bank took this money and enough more to meet the note with interest, which amounted to \$15,720. It was then that the deal became known to the Remington family interests in this city and legal action was started. Upon the return of Mr. Burdick will pend further developments in the case. He is wanted in this country under four federal indictments charging embezzlement.

Finland's Paper and Pulp Industry Booming

HELSINGFORS, July 1, 1920.—The condition of the Finnish paper and pulp industry is very inspiring. All the mills are running full force and there are more orders than manufacturers are willing to take. Prospects are fine, as world market prices are rising and demands increasing. Most of our paper goes to England, but France, Holland, Germany and Denmark are also taking some. New markets have been established in South America, Australia, China, Japan, Egypt and Turkey. Pulp is principally sold to England, France, Germany and Holland. Cellulose is being shipped to the United States of America, England, Germany and some of it to France and Japan.

Production in 1920 will be much larger than in the previous year. According to G. Serlachius, managing director of the Association of Finnish Paper Industries, the production in Finland amounted to the following figures in 1919:

	Tons	Finnish Marks
Paper	46,000	104,277,000
Pulp	64,400	30,263,000
Cardboard	15,800	14,350,000
Cellulose	73,800	68,745,000
	200,000	217,635,000

Mr. Serlachius estimates Finnish exports will amount to 437,000 tons, worth 1½ billion Finnish marks, in 1920. Production of sulphite matter for 1920 is estimated to reach 151,000 tons. Part of the sulphite lye is converted into alcohol.

The Finnish government has put a new export tax, amounting to 2 per cent ad valorem, on all goods exported. Besides, there are specific export taxes on particular articles, among them wood, which amounts to from 12 to 15 Finnish marks. In addition export duties, in force heretofore, will be exacted.

Wants Paper Samples

Williard S. Irlé, of the Williard S. Irlé Corporation, 1133 Broadway, New York, has been appointed American representative of R. R. Woolcott & Co., of Melbourne, Australia. This concern is one of the largest paper jobbing and importing houses in the Antipodes. Mr. Irlé is now desirous of forming the necessary wide connections and securing samples to forward to his principals.

DEMAND THIS BRAND

HOWARD BOND

WATERMARKED

World's Greatest Bond Paper

Renowned Where Quality Rules

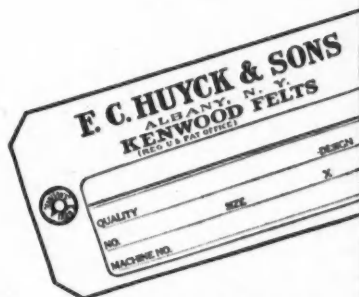
• Produced by

THE HOWARD MILLS, Urbana, Ohio



KENWOOD Felts *and* Jackets

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



*The distinguishing mark
of Kenwood Felts.*

F. C. HUYCK & SONS
Department HJ Albany, N. Y.

CONVENTION OF GERMAN PAPER MANUFACTURERS

BERLIN, June 30, 1920.—At the annual convention of the Association of German Papermakers, held at Heidelberg, the refusal of the government to sanction the Association's plan for a national organization of the whole paper industry caused some animated discussion. There were two elements in the convention, one for fighting labor and government, the other preferring a more conciliatory policy.

Dr. Lammers, the attorney of the Association, reported the Association's second proposal had been turned down by the government, after the first proposal had nearly been sanctioned. The fighting element in the Association had caused the withdrawal of the first proposal, which Dr. Lammers regretted. He called himself an "economic idealist" and maintained better results were to be attained by conciliatory methods than by brutal force.

In the second proposal the employers expected to run matters with or without the consent of the government, not to mention the workmen. For this reason the government had withheld its approval and the Association, consequently, was now in a position to start all over again.

Dr. Lammers was applauded, but there were other speakers who protested against any plans of conciliation. They said any dealings with the government were bound to end in the dreaded socialization of the industry. This element warned against lending the government one finger, for it soon would have the whole hand.

The result of the discussion was the adoption of a resolution authorizing the old commission, authors of proposal No. 2, to formulate an answer to the government's objections.

The great plan for a national organization, under the new economic law, combining under one head all the various branches of the pulp and paper industry, seems to be dead. According to the "idealists" it was killed by the "Bourbonism" of employers of the old school who refuse to recognize modern changes in the relations of employer and labor. The conservatives, however, believe the present socialization craze will soon evaporate and the good old happy days when a manufacturer was boss in his own mill will return. Managing Director Dr. Mirus reported the endowment fund has now reached almost a half million marks. The fund provides stipends for students at Darmstadt, Coethen and Altenburg who make a specialty of studying science for the purpose of becoming expert papermakers.

Stinnes Entering Paper Field

Stinnes, Germany's richest man, is now also a paper manufacturer. He bought the pulp and paper mills of East Prussia, cut off from Germany by the treaty of Versailles. The mills had to shut down as they could not get any coal. After Stinnes, who owns half of Germany's coal mines, became the owner of the East Prussian mills they started up again because Stinnes sent them coal.

The convention, after listening to this fairy tale, violently condemned the coaling policy of the government control office. It was pointed out the paper shortage was solely the cause of insufficient coal. To prove this contention official figures, showing the production of cellulose in times of scarcity and times of comparative plenty, were produced. November, last year, Germany produced 17,000 tons. In January, this year, when coal was still scarcer, production fell to 13,000 tons and in May, when coal became more plentiful, it promptly rose to 35,000 tons.

In this connection it was reported that Waldhof, the big cellulose plant, could get no coal in spite of all the orders issued by the government to the effect that Waldhof must get coal. Waldhof finally bought coal in America, started up and shipped its cellulose to foreign countries.

Director Clemm of Waldhof said scarcity of cellulose would

continue for some time. He pointed out, however, that scarcity would be better than over-production. Should suddenly an abundant supply of cellulose become available it would mean a catastrophe. A gradual increase, taking into consideration the interests of sound forestry, would be best for all parties concerned.

Scarcity of cellulose led to its import from foreign countries. The government, for financial reasons, put a stop to it, but this order soon became superfluous, as the rate of exchange made all imports highly unprofitable. When the rate of the mark rose again, imports became possible financially, but there were none to speak of, according to the annual report submitted to the convention on this subject.

To Import Wood from Border States

Germany is to import wood from the border states. Negotiations to bring this about are still pending, it was reported. After the Poles would have been thoroughly thrashed by the Russians there would be peace and then Germany would be able to get wood on better terms, the report said. Lithuania, for instance, had insisted upon being paid in coal for the wood she sold to the pulp mills in East Prussia. It seems Stinnes, the coal miner and paper maker, was doing a flourishing exchange trade business across the border of East Prussia and Lithuania.

Stinnes Still Buying Pulp and Paper Mills

Stinnes, by the way, is buying up pulp and paper mills because he has bought a number of daily newspapers. And he is still buying them, three and four at a clip. Stinnes aspires to become the Northcliffe of Germany. (He is the same Stinnes who had the row at Spa with some of the Allied representatives.)

The concluding session of the convention was devoted to listening to government Councillor Dr. Konietzko speaking on taxation.

There was one thing upon which all elements were united: strengthening and expanding the organization as far as possible. Carlyle's "Work, don't despair!" was mentioned by the chairman of the convention when calling the delegates to order. The principal work decided upon was organization.

Knight, Allen & Clark Expand

[FROM OUR REGULAR CORRESPONDENT.]

BOSTON, Mass., July 19, 1921.—Knight, Allen & Clark, paper merchants, recently established in Fort Hill Square, Boston, only nine months ago, have been forced by their increased business to take on additional floor space. Attractive gold and black signs are now appearing over two of the floors. The space devoted to office has been doubled and done over entirely in battleship gray and white. A two ton Stewart truck is now doing their city delivery work which is attractively painted red with the firm name in gold letters and their two popular Bonds, Argonne and Simplex, inscribed on each side.

A new salesman has been added to their selling force, Charles A. Bernard, recently connected with the Whitaker Paper Co. of Boston. Mr. Bernard's many Boston friends are glad to see him connected with this live, forward-looking house. At the outset he will have a portion of the city proper for his territory in preparation for additional New England territory.

The apparent success which Knight, Allen & Clark are demonstrating is due to energy and a knowledge of their business.

Salem L. Towne, general manager and treasurer of the Mid-West Paper and Envelope Company, Marlon, Ind., has just returned from an extended tour through the east, including a week's stay at Atlantic City during the Rotary convention.

Craig-Becker Company

Incorporated

52 Vanderbilt Avenue

New York City

Bleached Easy Bleaching

Unbleached Sulphites

Spruce and Poplar Ground

Wood Pulp

Domestic

Export



AMERICAN
Oval Toilet Paper

"AMERICAN OVAL" TOILET PAPER with holder prevents wastage, is more convenient than the ordinary dispenser and more neat in appearance. Elongated screw holes make possible the installation of this fixture in place of the old type without drilling new holes. We offer to jobbers a full line of OVAL TOILET PAPER, ROLL AND PACKAGE TOILET PAPERS AND TOWELS

Write for prices and complete information.
FOLEY PAPER COMPANY, Inc., Springfield, Mass.

QUALITY-FULL QUANTITY



Nilsen, Rantoul & Co.

INCORPORATED
140 Nassau Street,
New York

WE specialize in the importation of Wood Pulp, Casein, and in the exporting of Pulp, Paper, Paper Making Machinery, and Industrial Chemicals. The services of our organization either for the sale or purchase of the above commodities are at your disposal. Write us for complete details.

We maintain branches at—

- | | | | |
|------------|-----------|--------------|----------------|
| Christiana | Barcelona | Mexico City | Rio de Janeiro |
| Stockholm | Paris | Buenos Aires | Rome |

LABOR CONDITIONS BETTER IN THE NEW ENGLAND MILLS

A Slight Improvement Reported Throughout New England—Trend of Prices Seems Upward—Unemployed Men Have Flocked to Paper Mills Which Has Served to Solve Labor Problem to a Large Extent—Paper and Printing Trades in Lowell, Lawrence, Haverhill and Other Towns are Hard Hit by Shut Downs—John Carter & Co. Land Several Large Orders.

[FROM OUR REGULAR CORRESPONDENT.]

BOSTON, Mass., July 20, 1920.—A slight but perceptible improvement in labor conditions in the paper mills throughout New England, and particularly in Massachusetts, is reflected in a stiffening up of trade in the Boston jobbing houses and a more optimistic outlook on the part of dealers in all lines.

The trend of prices is still upward but this fact seems to cut but little figure with the outside trade and the mid-summer condition is, on the whole, considered a remarkable one.

The improvement in the labor problem at the mills is largely confined to the unskilled departments which are relatively important because a shortage of such workers invariably slows down the whole operation. It is accounted for by manufacturers as largely due to shut downs in many of the textile and shoe manufacturing centers of the state. These have thrown approximately 40,000 men out of employment and they have flocked to the paper manufacturers, by whom hundreds of them have been set to work.

Trade Hard Hit by Shut Down

Both the paper and the printing trades in Lowell, Lawrence, Haverhill and Brockton, as well as several of the smaller manufacturing towns are heavily hit by the shut downs in those places, but in greater Boston the effect is quite the reverse, though the greater and more regular receipt of supplies from the mills is not yet anywhere near the normal standard.

Secure Large Orders

John Carter & Co. report having landed several large orders for the D'Aigle bond, manufactured by the American Writing Paper Company, and it is cited as a significant fact that they have no difficulty in getting an unlimited supply of this grade of goods. In a communication recently received from the American Writing Paper Company, it is pointed out to dealers that they have distributed enough advertising of Bond D'Aigle and other lines which they desire to push at this time, to cover a strip of paper eight inches wide and long enough to reach from New York to Chicago. The Carter Company also reports a decided improvement in the receipt of envelopes and cardboards—a steadier and larger supply and better grading.

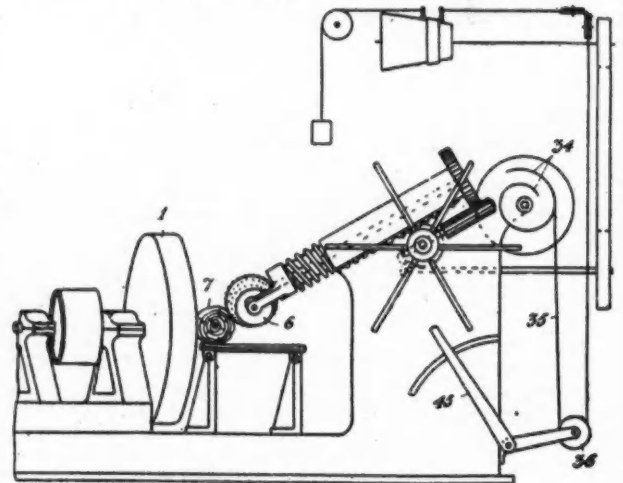
S. D. Warren Co. Busy

The S. D. Warren Company is reported as working its mills at over 100 per cent capacity with a steadily cutting down of delayed orders to the jobbers handling its product. One of these is the A. Storrs & Bement Company which begins to "dare to hope for an eventual catching up on orders." W. F. McQuillen and W. B. Stevenson of this concern are in Chicago in attendance at a meeting of the National Paper Trade Association. Mr. McQuillen is chairman of an important committee. George L. Webb, manager of the concern's New Haven office is taking a vacation which the management of the Boston house considers well earned inasmuch as the business of the New Haven branch for June was the largest for any similar period in its history.

New Machine for Peeling Wood

STOCKHOLM, July 2, 1920.—William Waern of Stockholm has obtained a patent on a machine in which the trunk to be peeled is revolving and the bark taken off in spiral form. The new principle on which the patent was granted is one automatically adjusting the peeling apparatus to the varying size of the trunk which towards the upper end decreases in circumference. The adjustment is effected by regulating the speed in the trunk's rotation.

The accompanying drawing illustrates the workings of the ma-



chine No. 1 contains the peeling knives, 7 is the trunk, 6 a forward pushing roller, 34 a furrowed disk, 35 a rope connecting the forward pushing roller with the speed regulating apparatus. No. 36 is a tightening roller and 45 a lever regulating and indicating speed.

Dutch Paper Industry Is Doing Well

AMSTERDAM, July 3, 1920.—Holland's paper industry is doing well. Last year witnessed a material improvement in trade conditions. The present year shows continued improvement. Supply of raw materials was regular, rags as well as pulp and cellulose are considerably higher. Cellulose, for instance, is 160 per cent higher than it was three months ago.

Demand for paper, from within and without, increased, but on account of the transportation workers' strike many orders had to be refused. In 1919 Holland imported 4,419,743 kilograms of wood pulp. Of this amount 3,108,469 kilograms came from Norway. The import of cellulose amounted to 8,935,348 kilograms, of which amount 6,325,395 came from Sweden.

Most of the news print paper went to Belgium. Total exports of news print amounted to 1,563,836 kilograms. Of this Belgium received 1,263,271 and Great Britain 193,317 kilograms.

Exports of print and writing paper and cardboard amounted to 1,304,301 kilograms. Of this Belgium received 384,435 kilograms and Dutch East Indies 468,370 kilograms. Exports of wrapping and packing paper amounted to 1,349,443 kilograms, of which Belgium took 247,852 kilograms.

Manufacturers of paper and cardboard goods were at a disadvantage in so far as they could not get enough paper and what they did get they had to wait for too long. Besides, there was the transportation workers' strike which delayed deliveries. Under the circumstances Dutch manufacturers could not compete with German exporters who flooded the market in Holland.

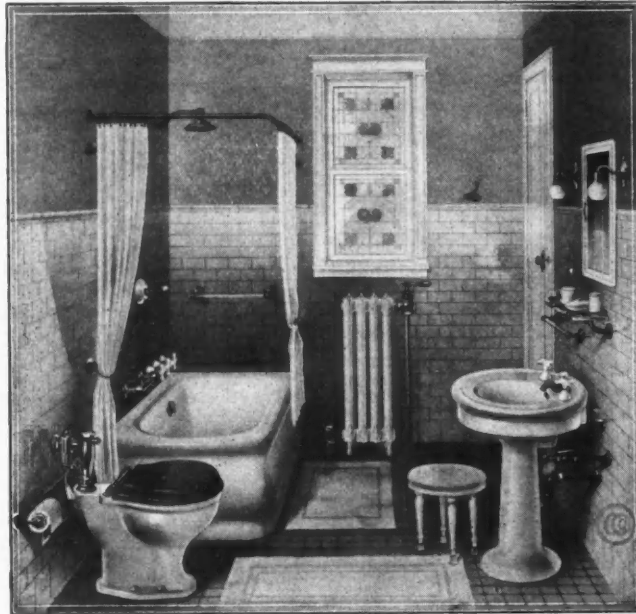
On the other hand, the situation in the straw pasteboard industry was materially better, although the strike interfered with delivery to Great Britain, the principal customer.

CRANE SERVICE

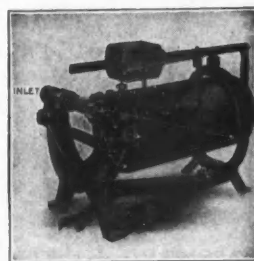
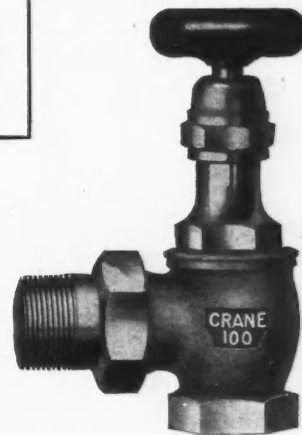
places within your reach, through numerous showrooms and branches, the most advanced ideas on

Heating and Plumbing Equipment

for buildings of all kinds and sizes.



We are manufacturers of 20,000 articles—valves, pipe fittings, steam specialties, etc.—for all phases of power plant equipment, and are distributors of pipe, heating and plumbing materials.



SALES OFFICES, WAREHOUSES AND SHOWROOMS:

BOSTON
SPRINGFIELD
BRIDGEPORT
ROCHESTER
NEW YORK
ALBANY
BROOKLYN
PHILADELPHIA
NEWARK
CAMDEN

BALTIMORE
WASHINGTON
SYRACUSE
BUFFALO
SAVANNAH
ATLANTA
KNOXVILLE
BIRMINGHAM
MEMPHIS
LITTLE ROCK

MUSKOGEE
TULSA
OKLAHOMA CITY
WICHITA
ST. LOUIS
KANSAS CITY
TERRE HAUTE
CINCINNATI
INDIANAPOLIS

FOUNDED BY R. T. CRANE, 1888

CRANE CO.
836 S. MICHIGAN AVE.
CHICAGO

DETROIT
CHICAGO
ROCKFORD
OSHKOSH
GRAND RAPIDS
DAVENPORT
DES MOINES
OMAHA
SIOUX CITY
ST. PAUL

WORKS CHICAGO AND BRIDGEPORT

MINNEAPOLIS
DULUTH
FARGO
WATERTOWN
ABERDEEN
GREAT FALLS
BILLINGS
SPOKANE
SEATTLE

TACOMA
PORTLAND
POCATELLO
SALT LAKE CITY
OGDEN
SACRAMENTO
OAKLAND
SAN FRANCISCO
LOS ANGELES

CRANE LIMITED

MONTREAL, TORONTO, VANCOUVER, WINNIPEG, LONDON, ENG., SYDNEY, N. S. W., QUEBEC, HALIFAX, OTTAWA, CALGARY.

Editorial

Vol. LXXI. New York, July 22, 1920 No. 4
FORTY-NINTH YEAR

Good Forestry Work

The paper and pulp industry in recent years has not only become converted to the need for intelligently conducted forestry work but has become convinced that by this means only as the years go along can great disaster to the industry be averted. For this reason members of the industry will learn with interest of the commendable work that has been carried on of late by the New York State Ranger School at Wanakena, N. Y. The first definite report of experimental planting made by the foresters on the Wanakena State school forest shows that in the last four years there have been planted a total of nearly 150,000 trees.

Director Robert Craig, Jr., in a report to Dean Franklin Moon, of the New York State College of Forestry at Syracuse, says that after four years it is now possible to begin to give data and results of the various planting campaigns, as seen by the studies of sample plots. The planting of spruce has been extensive, because the tract is in a section where spruce has grown native, and it is in the region subsidiary to the great state paper mills. In 1917, for instance, out of 27,000 trees planted, 12,650 were spruce. The statistics show that an average of 93 per cent of those planted are still living. The entire planting of 1918, except less than 1,000 pine, was spruce, 26,000 being planted, and 85 per cent of the spruce are living, with all of the pine. Of the 39,000 trees planted in 1919, 36,000 were spruce, and the percentage living is 84.8, with 100 per cent of the pine.

This spring's planting was 7,600 white pine, 10,000 Scotch pine, 18,950 Norway spruce and 14,500 Norway pine.

One great value of the keeping of these records will be to ascertain the conditions under which the lowest rate of mortality of the young trees has been attained, and also studies of the rate of growth will be kept from year to year, so that paper companies or private individuals interested in economic planting may be kept informed as to the best methods of securing productive forests. The planting is under all sorts of conditions, favorable and unfavorable, to secure the best information possible as to growing conditions.

This is certainly a good showing and it should serve to insure increasing support from members of the paper and pulp industry.

Directory Information

The responses this year to the requests sent out a few weeks ago for information for the new edition of *Lockwood's Directory of the Paper Stationery and Allied Trades*, have been very gratifying. However, a considerable number of paper manufacturers have as yet failed to return the mill reports, and some general paper merchants, rag and paper stock dealers, paper box manufacturers, and others to whom blanks for information have been sent have not yet made their returns.

This carelessness is to be regretted. It handicaps the work of getting out the directory, and in the cases where information of

mills are held until the last minute before publication, increases the chances of not listing a concern as accurately as might otherwise be the case. All the information for the directory is needed immediately.

The need for haste in supplying this is much greater than in former years because due to numerous circumstances it has been found necessary to set the date for publication rather earlier than usual. Important among these reasons is the fact that the demand for the last edition of the directory was so unprecedented that it was entirely out of print several months after it appeared from the press. Requests for the directory are still constantly being received, but unfortunately, for the reasons mentioned, they cannot be filled. Because of the great interest in the paper industry that has arisen in the past year or two the demand for the directory promises to be very much larger than ever and it is the intention of the publishers to meet this demand as early as possible with as accurate a work as it is humanly possible to make. Co-operation to this end on the part of members of the paper industry and the various branches of the paper trade listed in the directory who have not yet responded will be greatly appreciated.

In this connection it should be remembered that an accurate, reliable, thoroughly up-to-date directory is a trade tool of almost priceless value but that a directory which does not have these qualities is, in many respects, worse than no directory at all.

You will help yourself by sending in at once for *Lockwood's Directory* all the information requested regarding your concern.

Paper Mill Wages

Wages in pulp and paper mills continue constantly to increase, and this is, of course, among the important reasons that explains the firm condition of the paper market when the markets for many other prominent commodities have been showing some important price recessions:

The Bureau of Labor statistics of the Department of Labor has the following to say in connection with the changes in wage rates during the period March 15 to April 15 in the paper-making industry:

"One establishment reported an increase of 25 per cent, affecting 7 per cent of the employees, while another establishment reported increases ranging from 12½ to 22 per cent, but made no further statement. The entire force in one firm received an increase of about 14 per cent. All the men in one concern received an increase of 12½ per cent, while the entire force on another concern received an increase of 12 per cent. One firm reported an increase of about 12 per cent, affecting about 17 per cent of the employees. All employees in three establishments were given an increase of 10 per cent. Fifty per cent of the force in one concern received an increase of 9 per cent. Two mills gave an increase of about 8 per cent, affecting 20 per cent of the employees in one mill and 18 per cent of the employees in the other. An increase of 7.4 per cent, affecting 37 per cent of the employees, was reported by one establishment, while 70 per cent of the employees in another establishment received an increase of 7 per cent. One firm that reported a general advance of wages made no further statement."

Whalen Company's President Resigns -

[FROM OUR REGULAR CORRESPONDENT.]

MONTREAL, Que., July 19, 1920.—considerable surprise was caused here last week by the announcement of the resignation of Sir George Bury from the presidency of the Whalen Pulp and Paper Company. This company, which is situated on the coast in British Columbia, has a large amount of Eastern capital invested in it, and the stock of the company is shortly to be listed on the Montreal Stock Exchange. In announcing his resignation, Sir George stated that he had accepted an appointment in an advisory capacity to certain large interests on the Atlantic Seaboard.

Another story in connection with Sir George Bury's retirement is that it has been hastened by the probability of the Whalen Company being absorbed after its next annual meeting, on July 29, by the Fleishacker interests of San Francisco, which now control the Pacific mills, of Ocean Falls, and the Powell River Company, at Powell River, both large pulp and paper mills.

At the present time the majority of the Whalen directors are composed of representatives of the bondholders, and these include I. W. Killam, of the Royal Securities Corporation, of Montreal. An effort is being made, it is said, to retain control of the Company in Canada, but recently a large block of stock has gone into the hands of the Fleishacker interests, and it is said that control will pass to the latter at the next meeting. This will mean that all the developed pulp concerns on the coast of British Columbia will have passed into American hands. The Whalen Company has three plants at Millcreek on Howe sound, at Swansea Bay, and at Fort Alice on Quatinso Sound. Practically all of its pulp is shipped in mat form to the Orient, and the demand in the last year has been so great that the company's earnings under Sir George Bury's direction have climbed over the four million dollar mark.

Each of the three companies is engaged in a different phase of the business. Ocean Falls ships its product in the form of manufactured news print almost exclusively to Australia and New Zealand. Powell River supplies the newspapers of British Columbia and the North-Western States, including California, while the Whalen mill sends its pulp to Japan and China.

Paper Converting Corp. Completing New Plant

[FROM OUR REGULAR CORRESPONDENT.]

NIAGARA FALLS, N. Y., July 19, 1920.—Work on the new paper mill of the Paper Converting Corporation at Niagara Falls, N. Y., which has been under way for the past three months, is now rapidly nearing completion. The building now in process of erection will be entirely of steel and concrete according to plans and specifications of the most modern design and execution. Already the pourings for the second story have been set and the next few weeks should witness the completion of the interior, ready for the installation of the new and specially designed paper making machinery.

Two machines will be set up at once. These machines in every part have been built to order by the best known paper making machinery concerns in the country, according to the designs and patterns particularly adapted to manufacture the product for which the Paper Converting Corporation has been recently organized. This new plant when completed and in full operation this winter promises to be one of the most modern paper mills and converting plants anywhere in the country.

C. C. Hockley, chief engineer of the Thilmany Pulp and Paper Company, of Kaukauna, Wis., has had entire charge of this work, including the details of designing the special paper machines, since its inception several months ago. In spite of tremendous building handicaps in labor and raw materials and deliveries at this time, the work has proceeded according to plans and this new organization deserves great credit for the results that have thus far been attained in adding this most modern mill to the

industry. Mr. Hockley was formerly engineer with the Laurentide Company at Grand Mere, P. Q., Canada and later with the Union Bag and Paper Corporation as chief engineer at the Glens Falls, N. Y., Division.

Paper Situation in France

PARIS, July 1, 1920.—Prices of material, delivered at Rouen or Antwerp, were about as follows last month:

(Prices quoted in Swedish crowns per ton)

Sulphite matter, bleached.....	1700 to 1735
Sulphite matter, bleachable.....	1200 to 1215
Sulphite matter, of coarse fiber.....	1065 to 1110
Soda matter, bleached.....	1350 to 1365
Soda matter, bleachable.....	960 to 965

Improvement of French valuta facilitates the purchase of Scandinavian half finished materials. It is reported here that 150,000 tons of Swedish sulphite matter have been contracted for by England, to be delivered from May 1, 1921, on. England will need 400,000 tons in 1921, according to French estimates, and is expected to get most of it from Sweden. French buyers are holding back. Our low rate of exchange still somewhat impedes our purchasing activity.

New conditions imposed upon the French by Scandinavian exporters are rather irksome, says *Papeterie*. Prices are raised enormously and French buyers have to pay cash when giving the order, while they have to wait months and months for delivery.

As a result of the transportation strike, lasting 22 days, factory store rooms were filled to their capacity. Deliveries are now taking place, but rather slowly. Some paper manufacturers, unable to realize upon goods manufactured, are in financial trouble. There is no improvement in sight in the French paper market, according to *Papeterie*, in spite of the recuperative power of the French franc.

Timber Estimating House Opens Washington Office

James W. Sewall, of Old Town, Me., has made arrangements to open an office for the conduct of timber estimating and mapping work throughout the Southern and Central States. The well known and established Lumbermen's Bureau, Munsey Building, Washington, D. C., will act as Mr. Sewall's representative for that territory.

This expansion has become necessary because of the continued increased demands for reliable work such as the Sewall organization accomplishes, and so that Southern and Central clients can get as good quick service as to Northern ones. Mr. Sewall will be in active personal touch with both offices.

EDWIN BUTTERWORTH & CO.

MANCHESTER, ENGLAND

Packers of all kinds of



PAPER STOCK, COTTON WASTE AND
GUNNY BAGGING, BUFFALO SIZING, Etc.

Sole Agents HAFSLUND

BLEACHED SULPHITE PULP—BEAR BRAND

Boston Office, 136 Federal St.
CHARLES H. WOOD, Sr., U. S. Mgr.

New York Office, 1123 Broadway, Chelsea 9 50
LEWIS JENNINGS, Manager

"WATERBURY"



ORISKANY, N. Y.

OUR TIGHT FITTING, DIAMOND "W" JACKETS
WILL NOT LICK UP AT ANY SPEED

1869 {MADE ONLY BY} 1920
{GUARANTEED BY}

H. WATERBURY AND SONS COMPANY, ORISKANY, N. Y.

PRACTICAL QUESTIONS AND ANSWERS FOR MILL MEN

A Department for the Solution of the Troubles, Large and Small, That Are Encountered by the Workers in the Mills in the Course of Their Duties in Making Paper and Pulp—All Mill Men Are Invited to Send in Both Questions and Answers—A Free Exchange of Ideas Is Desired—By Active Co-operation This Department Can Be Made a General Clearing House for Information in Regard to Practical Paper Making.

Extermination of Paper Worms

If the person who recently inquired regarding a remedy for the extermination of paper worms will communicate with this office he may learn something of interest regarding this matter.

Dyeing Unsized Paper

QUESTION No. 2532.—Kindly inform me through your Questions and Answers what kind of colors are suitable for dyeing unsized paper, also do they require anything to "set" them?

ANSWER No. 2532.—The various colors of the "Substantive" group are used for dyeing unsized papers. Most of these colors are readily absorbed by cellulose fibres so that the backwaters are practically colorless. When dyeing with less than 3 per cent of the weight of fibre it is unnecessary to use any mordant, but with more than 3 per cent color it is advisable to use about 5 per cent common salt or 10 per cent Glaubers salt. While this treatment has no direct precipitating action, it induces a more thorough transference of the color from the water to the fibre. Ground wood fibres do not absorb these colors as readily as the pure cellulose fibres, so if part of your furnish consists of ground wood your paper would have a mottled appearance.

Fastness of Colors

QUESTION No. 2533.—Will you please inform me how I can tell whether a color will fade or not?

ANSWER No. 2533.—Color a small quantity of pulp with the color in question, and mould into a small sheet of paper and dry. Place one-half the sheet between the leaves of a book and expose the other half to sunlight for 24 hours, whereupon it can be removed from the book and its fastness to light noted. If the origin of the color is known it will be quite safe to go by the following:

Pigment colors are considered to be of good fastness to light.

Substantive aniline colors—good fastness.

Acid aniline colors—fair fastness.

Basic aniline colors—poor fastness.

The Basic colors while being the most fugitive to light of the aniline colors, have the advantage of being the most brilliant in shade.

Variance of Wire Pitch With Speed

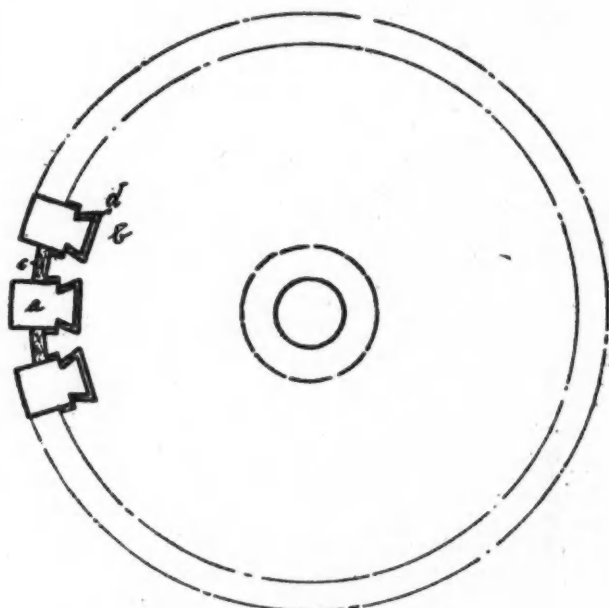
QUESTION No. 2534.—If the pitch on a wire is suitable for a speed of 150 feet per minute would it not be advisable to change the pitch if the machine were speeded up to 250 feet per minute or down to 50 feet per minute?

ANSWER No. 2534.—In the majority of cases it would not be necessary to change the pitch for the above-mentioned variance of speeds provided your wire was pitched at the happy medium of about level for such speeds. The flow of the stuff unto the wire can be controlled satisfactorily for these speeds by the depth of the head carried behind the slices. At 250 feet per minute you

would require a deep head behind the slices so that the pressure would force the stuff out at the same speed the wire is traveling, and vice versa when on slow speeds.

Stone Segments Held by Pulping Cylinder

Paul Rinck of Aix-la-Chapelle has obtained a patent on fastening in the cast iron cylinder, *c* the cement which assists in holding come the trouble caused by stone segments breaking loose. According to Rinck's patent the stone is to be held in a prismatic



RINCK'S PATENT.

wise, as shown in the accompanying drawing, which is self-explanatory, for *a* denotes the stone segment, *d* the prismatic opening in the cast iron cylinder, *c* the cement which assists in holding the segments and, at the same time, fills in the gaps, and *b* the cylinder.

Idaho to Have New Pulp and Paper Plant

IDAHO FALLS, Idaho, July 19, 1920.—The Howard Pulp & Paper Corporation, capitalized at \$25,000,000, has filed articles of incorporation. The capital stock is divided into two classes of stock, 200,000 shares of common stock, of the par value of \$25 a share, and the other class, known as 8 per cent preferred stock, divided into 200,000 shares of the par value of \$100.

NEW ENGLAND PAPER INDUSTRY

WRITTEN FOR CURRENT AFFAIRS BY CHARLES H. TIFFANY, TRAFFIC MANAGER, NEW ENGLAND PAPER AND PULP TRAFFIC ASSOCIATION

The following article is the third of a series being published from time to time in the columns of "Current Affairs" dealing with the major industries of New England. Each article is prepared by a man who has been in constant touch with the progress of the industry, concerning which he writes, in this section for many years. The manufacture of paper is among the earliest of New England's industries and the story of its growth is an interesting one.

The pulp and paper industry of New England probably ranks third in money value of product; the textile and shoe and leather trades leading, but, from the traffic viewpoint, pulp and paper with the immense raw material tonnage involved in their manufacture easily lead all our industries. A "balanced" book paper mill, for example, involves about seven tons inbound for each ton of final product—a "balanced" mill meaning a plant producing its own sulphite and soda pulp and its own bleach and alkali by electrolysis. Thus a "balanced" mill with 250 tons daily product, or 75,000 tons yearly, involves a total shipping tonnage of 600,000 tons per year.

The Paper Mill at Milton

It was nearly three centuries ago that the "Great and General Court of the Province of Massachusetts Bay with approval of his excellency the Governour and Council" granted a ten-year monopoly of paper manufacture to several men of good Massachusetts names. These pioneers of our industry engaged to build a mill on the Neponset River in Milton and to produce within a twelvemonth no less than "two hundred Rheams of good Merchantable Brown Paper," finally after the third year to attain a production of "not less than Five Hundred Rheams every year." I cannot help wondering what these captains of industry of 1728 would have thought to see the boss machine tender break the sheet onto a new winder with an air gun on number ten machine running at nearly one thousand feet a minute in a New England plant producing a trainload of paper daily!

New England's Second Mill

The second New England mill on the Presumpscot River near Portland followed the building of the Milton plant in two or three years. While many former paper mill sites in New England are now only memories, it is notable that both at Milton and at Westbrook are today operated mills whose product has been favorably known for generations, indeed for centuries.

While to Pennsylvania must be credited the first American paper mill, built some forty years earlier than those of Massachusetts and Maine, yet where "the schoolmaster was abroad in the land," as so notably here in New England, naturally the primacy of paper manufacture for scores of years hung close to the bailiwick of schoolroom and printing offices. Whether Boston's own Benjamin Franklin, who founded in Philadelphia the famous weekly that today represents the largest unit of book paper consumption in the world, reached out into Massachusetts for his modest paper supply, I cannot say. Our efforts to accomplish these immense deliveries of today have not left me the leisure to inspect Benjamin's ledgers.

Quality of Production

If New England has had any monopoly in paper manufacture since that granted three hundred years ago to the microscopic plant at Milton, I think it has lain in the quality of producer and product. In quality of product, past, present and future, New England defers to none, but as to relative quantity she yields. As the star of empire has moved westward, naturally paper mills of a vast tonnage have sprung up all over the hemisphere, and the founders of many of the most successful of these mills have been New England trained men. While these gentlemen dealing with immense units will now and then poke kindly fun at the conservatism of some of their New England confreres or former bosses,

they invariably recall appreciatively and often with affection their thorough training in the Old Colonies. It was after long experience of assisting in operating at Providence the first chemical pulp mill on the continent, that a sturdy Scotchman and his six sons built a little pulp mill on the upper Potomac, now the nucleus of the greatest book paper production in the world under one management. It was from Fitchburg that another man of New England training went out and built a small paper mill in the Kalamazoo valley that was the cornerstone of the immense development of paper manufacture in Michigan.

Among the hundreds of mills all over the country, there are indeed few, if any, from which there does not extend a thread of remembrance and affection to New England, which is, in a comprehensive way, the mother of them all.

Produce Everything in Paper and Boards

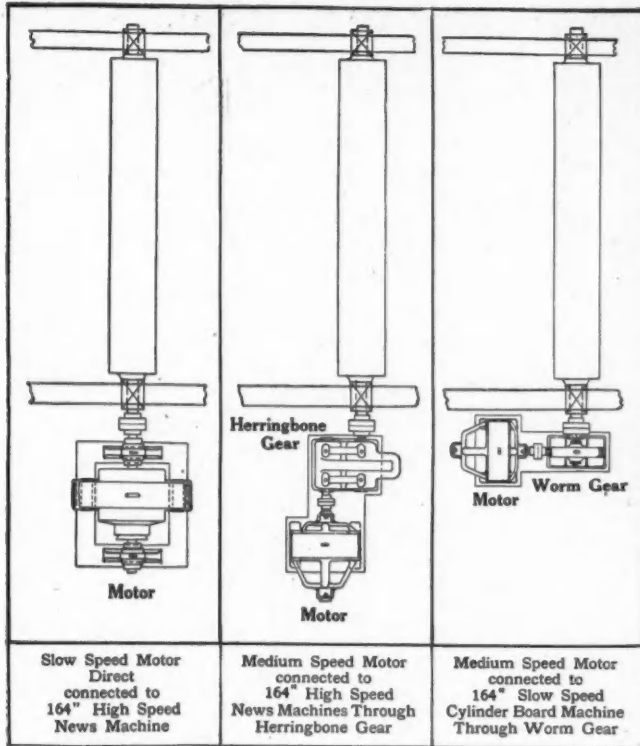
New England mills produce everything in paper and boards from the lowest grade output of a "mud mill," up to the ever welcome little sheets of paper measuring about seven and one-half by three inches upon which Uncle Sam prints his promises to pay. A little mill up in the Berkshires turns this trick by formulas so secret that the right hand of the trusted worker is skilled in processes that his left knoweth not and vice versa. In production of high grade writing and other "fine" paper New England is supreme in quality and quantity, and your *cartes de visite* and your wedding invitations are almost certainly made here, or *should* be. In book paper, plain and surface-coated, in wrapping and bag paper, also in paper bags, New England, if not absolutely first in quality, is certainly second to none and ranks very high in quantity; also as to news print, with the unique distinction of having very much the largest news mill in the world, likewise of largest chemical pulp mill. New England has a heavy production of every description of paper boards and is an important factor in waxed paper and tissues. The tissue mill is a most interesting little fellow with manufacturing processes of great delicacy.

With certain undoubted advantages for the manufacture of paper, New England also has some serious disadvantages. Way up in the corner of the United States, the mill has long hauls inbound on its coal and many important raw materials of heavy tonnage, and outbound on much of its manufactured product. New England produces many times its own requirements of paper, and while the home market is important, and New York City is much the largest paper market on the continent, the center of consumption is very far west of there and a long way from Bangor or Boston.

Paper Traffic Rates

Only a few years ago the New England paper manufacturer sat on the roof of the paper rate structure while his competitors in and west and south of the Hudson Valley pulled his leg from their windows in the lower stories. Finally, upon New England's request to be taken in out of the wind and rain, the Interstate Commerce Commission decided the parlor floor, one flight up from the street, was about right for us all. It was a hard climb for some of the mills that had been in the rate basement, but that did not hurt New England!

Perhaps I overstress the importance of the small end that I represent in this great basic industry, but it seems to me that with freight rates on raw materials and product fairly adjusted as between the several manufacturing groups throughout the country, and with efficient transportation, the New England manufacturer has nothing to fear from competition, and there is plenty of it. In any event, I know that he does not fear it. High reputation, which means good management and is its reflex, is the most important element of all in the continued success of a manufacturing industry.



Sectional Individual Motor Drive

that meets

Every Requirement of Paper Machines

These views show actual floor space required

Although the same principles are involved in driving high speed news machines, medium speed book or specialty machines and slow speed cylinder board machines, the mechanical arrangement of the drive is often necessarily determined by the space available for its installation.

The Westinghouse system of sectional individual motor drive utilizes apparatus of such simple nature that it lends itself admirably to use in limited space. This is evidenced by the above illustrations of the three possible mechanical arrangements of this drive, which afford a choice to best meet specific space requirements.

In the illustrations, a direct-connected, slow speed motor, a medium speed motor with herringbone gear and a medium speed motor with worm gear are shown. It will be found that in most instances one of these three mechanical arrangements will be preferable.

The ultimate results, namely, increased production, lower maintenance and improved mill conditions, are obtained by the use of any one of these arrangements.

Our representative will be pleased to go over this further with you. Write our nearest district office.

Westinghouse Electric & Mfg. Co.

East Pittsburgh, Pa.

Sales Offices in All Large American Cities



Westinghouse

FORESTRY RESOLUTIONS OF NATIONAL LUMBER MEN

The following is the declaration of general principles and recommendations upon legislation reported by the Forestry Committee of the National Lumber Manufacturers Association, and endorsed by the Board of Directors, July 10, 1920.

National Forest Policy

We recognize that both national and industrial welfare demand early developments of an American forest policy which shall substitute for indifference or accident an intelligent, practical, equitable and concerted program for the perpetuation of forest supplies.

Since one of the first logical steps is to safeguard the very considerable forest reproduction already under way and to be expected through natural processes, there should be far more liberal Congressional appropriation for cooperation with states in fire prevention, especially on restocking lands.

Growing future timber crops must be largely, though by no means wholly, a Government and state function. Hence both should acquire, by purchase and by exchange of stumpage for land, much larger areas of permanent forest land than they now possess. Such acquirement should be largely of cut-over land, to assure proper care thereof as well as economy in public expenditure.

Provision may well be made to reimburse local taxing units, from the returns from such Government-acquired land or otherwise, for the loss of taxes involved.

The Government should lend its encouragement and assistance to such state policy in forest improvement, protection and tax reform as shall make conditions favorable for state and private forest growing.

Land classification and studies should be conducted jointly by industry, states and Government to arrive at fuller knowledge for carrying out the foregoing steps, including determination of the area of permanent forest land required, its geographical distribution, and its relative federal, state and private suitability for reforestation.

Army facilities, particularly aviation for fire patrol and troops in fire-fighting emergencies, should be available in the many instances where this is practicable and of public profit.

There should be a wise consistent policy for the marketing of publicly-owned timber, to the end of permanent public good uninfluenced by consideration of temporary revenue.

The Forest Service should be the recognized leader of public forestry thought and effort along general lines, because of its impartial position and broad educational facilities, but vested with no regulatory control over state or private lands not mutually agreed to by the owners thereof for specific purposes in connection with the general policy herein suggested.

In developing and continuing public forest policies, either state or federal, private and public forest agencies involved should cooperate through accredited machinery giving each due voice.

Economical use of forest material deserves equal attention with its production. Research to this end should have liberal support.

If the public is to expect earnest successful effort by forest industry to perpetuate itself and its resources, there must be an equally sympathetic and helpful attitude toward the problems of the industry, exhibited in all contacts with it by the public and by governmental agencies of whatever character. A successful forest policy means much more than tree-growing. It means confidence and security in every

legal and commercial phase, to industry and public alike, with each scrupulous to refrain from injustice or unwarranted suspensions.

State Jurisdiction

Uncovered by the foregoing twelve principles of national bearing are those questions of private and public responsibility or of police power which, because of varying conditions and the rights of states, should be decided locally in every instance and the subject of state legislation if of any. In their decision the knowledge and needs of the industry should have due weight through representation on any committees, boards or commissions dealing with the adoption or enforcement of state policy or legislation. Such questions include particular methods of forest protection and perpetuation and should be dealt with to the extent warranted by the local situation and consider such systems as are locally applicable.

Attitude of Lumbermen

Public-spirited lumbermen will support such steps along the foregoing state and federal lines as are practicable. Equally with the public such lumbermen should be protected against the consequences of short-sighted policy either within their own industry or elsewhere. With these steps, and with a helpful public attitude, private participation in better forest practice will keep its fair proportion in the program as a whole.

Legislation

Since state legislation is properly for local self-determination, we offer on behalf of the industry as a whole no suggestions therefor beyond the general principles already expressed. Toward a national policy, and in our opinion representing the participation therein due from the federal government in addition to its present efforts, we urge the following legislation by Congress:

1. An appropriation of not less than \$1,000,000 annually for cooperation by the Forest Service with states and forest owners willing to bear an equal or greater share in the costs of locally-applicable systems for protecting from fire both forests and forest lands which are re-stocking.

2. An appropriation adequate for prompt survey of the nation's forest resources by the Forest Service, utilizing the facilities of the forest producing industries, the states and other sources of information, to determine the quantity, location, and suitability for various commercial uses of our remaining timber, to determine the approximate area, location and condition of lands chiefly valuable for timber growth, and to obtain other information bearing on the future of forest supplies.

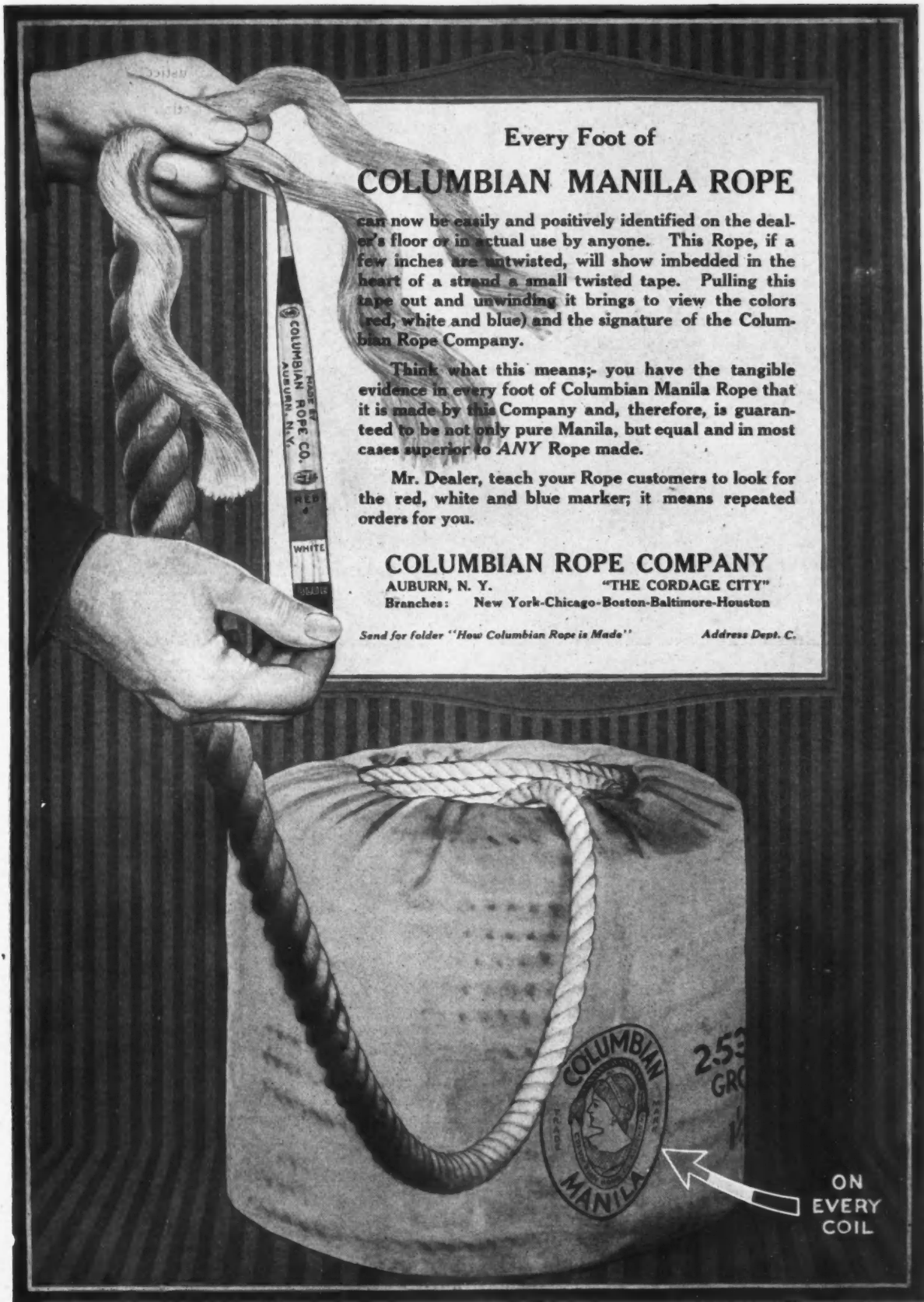
3. Adequate provision for research by the Forest Service, through necessary experiment stations and in co-operation with available agencies, to determine desirable methods of wood utilization, wood preservation, forest reproduction, and the control of insects, disease and other forest enemies.

4. Liberal provision for the selection and acquisition, by purchase and by exchange, of such lands as should be added to the National Forest system to assure their best protection and management in the public interest.

5. Provision for replanting such denuded areas in the National Forests as are evidently not to be restocked by natural processes.

We believe it the duty of all branches of forest industry to unite in actively furthering the above-suggested federal legislation.

NATIONAL LUMBER MANUFACTURERS' ASSOCIATION.



Every Foot of
COLUMBIAN MANILA ROPE

can now be easily and positively identified on the dealer's floor or in actual use by anyone. This Rope, if a few inches are untwisted, will show imbedded in the heart of a strand a small twisted tape. Pulling this tape out and unwinding it brings to view the colors (red, white and blue) and the signature of the Columbian Rope Company.

Think what this means; you have the tangible evidence in every foot of Columbian Manila Rope that it is made by this Company and, therefore, is guaranteed to be not only pure Manila, but equal and in most cases superior to ANY Rope made.

Mr. Dealer, teach your Rope customers to look for the red, white and blue marker; it means repeated orders for you.

COLUMBIAN ROPE COMPANY

AUBURN, N. Y.

"THE CORDAGE CITY"

Branches: New York-Chicago-Boston-Baltimore-Houston

Send for folder "How Columbian Rope is Made"

Address Dept. C.

ON
 EVERY
 COIL

Notes of the Kalamazoo Trade

[FROM OUR REGULAR CORRESPONDENT.]

KALAMAZOO, Mich., July 22, 1920.—The Kalamazoo Loose Leaf Binder Company will, late in September, begin the erection of the big addition to their plant on West Kalamazoo avenue, according to a statement made by George P. Wigginton, president of the company.

Details and specifications of the structure are now being worked out by the architects and will soon be available. The addition will cover the entire Kalamazoo avenue frontage from the east line of the present factory to Church street, and will run back the entire depth of the company's property and will increase the present floor space 150 per cent.

"Despite the high cost of materials we are forced to build," said Mr. Wigginton. "We can easily do three times our present business and are enlarging to take proper care of our rapidly growing clientele. We have ordered a full set of offset presses and other equipment, all running in value from \$40,000 to \$50,000. We expect deliveries on this machinery next spring, or about the time our addition is completed."

Mr. Wigginton left Sunday for New York and will go from there to his farm in St. Mary's County, Maryland, where his family is spending the summer. They plan to return to Kalamazoo next fall in time for the children to enter school.

A. E. Curtenius, secretary-treasurer of the Kalamazoo Paper Company, has retired as a member of the school board of this city. During two terms in office he demonstrated his fitness by an aggressive, public-spirited policy. He was largely responsible in pushing through a large increase in pay for the teachers and a salary bonus of \$200 for each teacher for work done the past year. He was also instrumental in planning and carrying out campaigns that have resulted in the taxpayers voting immense extensions to the school facilities of the city. He has been right behind every progressive movement.

The Whitaker Paper Company, Detroit, has purchased the building of the Goodyear Tire & Rubber Company, and will take possession January 1. The consideration was \$275,000. The purchase permits the Whitaker Paper Company to concentrate all departments under one roof.

The East Jordan Electric Light & Power Company, of East Jordan, Mich., has begun rebuilding its power dam on Deer Creek.

The American Rule and Book Company, Menominee, Mich., has filed articles with the secretary of state. The company has a capital of \$100,000 and will manufacture blank books and office supplies.

Frank H. Milham, president of the Bryant Paper Company, is taking his annual workout as presiding judge at the annual Grand Circuit meeting in this city.

Fred M. Hodge, president of the Kalamazoo Paper Company, is vacationing during July at Charlevoix, Mich., where he has a cottage.

R. P. Andrews Outing Is Big Success

[FROM OUR REGULAR CORRESPONDENT.]

WASHINGTON, D. C., July 19, 1920.—Two hundred employees of the R. P. Andrews Paper Company closed shop Saturday and enjoyed what was unanimously adjudged "the best outing yet." Leaving the store shortly after 1 o'clock, a score of automobiles decorated with red, white, and blue bunting and the red and yellow colors of the "House of Andrews," conveyed the picnickers to a beautiful grove facing the Sixteenth street reservoir, where a series of novelty races, from juvenile doll races, toy races, lemon and potato races to the more strenuous fifty-yard dashes and backward dances, afforded both pleasure and amusement the first part of the afternoon.

After the prizes were awarded to the winners by R. P. An-

draws, some unexpected talent was displayed in a seven-inning baseball game between two teams comprising white and colored employes of the store, ending in a tie, 8 to 8.

Several impromptu violin selections by little Miss Emily Brown were greatly enjoyed and elicited many deserved compliments.

The outing was brought to a close by an appropriate speech by Mr. Andrews.

Recommends Changes in Trade Mark Laws

LONDON, July 9, 1920.—The use and abuse of trade marks and national emblems is discussed by the Merchandise Marks Committee in their recently issued report to the board of trade. The committee suggests that the board should have power to make an order, after official inquiry has shown it to be to the public interest, requiring indications of origin to be given for all kinds of imported goods. They also recommend that false indications by trade names or titles of firms or companies should be brought within the scope of the act. Another recommendation is that recognized national emblems should be regarded *prima facie* as indications of national origin. They suggest that a list be settled of British emblems, and that their use upon foreign goods be forbidden.

The committee, in dealing with the question of foreign place names which are identical with names of places in the United Kingdom, suggest that in such cases, or where a foreign name is a colorable imitation of the name of a British place, the name used on imported goods should be required to be qualified. They consider that, in the absence of agreement among the bulk of the traders concerned, there are grave objections to the institution of a British national or an Empire mark.

The report states that the committee recommends that there should be established in each foreign country and at every important commercial center official or trade representatives empowered to bring proceedings on behalf of British nationals, and that the international conventions should press for the necessary amendment of national laws to enable such action to be taken.

Haskell on News Print Shortage

Blame for much of the shortage of print paper in the United States was laid to Canada by Colonel W. E. Haskell, vice president of the International Paper Company, in an address before the Southern Newspaper Publishers' Association. He declared that there was no justification for the measures adopted by the Provinces of Ontario, Quebec and New Brunswick prohibiting the export of native timber which had not been manufactured into lumber, pulp or paper. These provinces, Colonel Haskell said, were able with proper regulation and fire protection to cut three or four million cords of timber annually without seriously impairing their own supply.

A Bad Result from Lake Erie Dredging

Dredging for Section 5 of the Welland Ship Canal has rendered the water of the Lake Erie level of the present canal so oily that it is interfering with the production of a number of the paper mills along the waterway. One company last week had a \$10,000 shipment thrown back on its hands as a result of the unfilterable sediment.

To Make Corrugated Paper at New Orleans

NEW ORLEANS, La., July 19, 1920.—The Union Paper Products Co. will erect a \$100,000 building, to be equipped with machinery costing \$100,000. The company will manufacture corrugated paper with a daily capacity of 150,000 square feet.

Antoxide —

a preventive of rust
a protection against
corrosion.

THE strength of your factory depends upon its frame of steel. The production of your factory depends upon its machines of iron and steel. There is an enemy which daily is undermining your plant, and little by little is eating its way into the very heart of your industry. Rust — the Flameless Fire—causes greater loss every year than fire itself.

Prevent this waste and destruction by painting all exposed metal parts with Antoxide, the rust-inhibitive. Antoxide is a DuPont product, a fact which guarantees its worth and the satisfaction procured from its use.

Write us for further particulars

E. I. du Pont de Nemours & Company, Inc.
Sales Dept.: Paint and Varnish Section
Wilmington, Delaware



All iron work in this plant of the General Motors Corporation at Bloomfield, N. J. was first painted with two coats of Antoxide. The clean, bright airy look was then achieved by completing the finish with Du-Lite (white mill paint) which is also made by DuPont.



ANTOXIDE

PREVENTS RUST

Announcement

NITRO PULP MILLS

INCORPORATED

Nitro, West Virginia

Bleached Cotton Pulp

SUITABLE FOR

Highest Grade Paper

Fifty Tons Daily Capacity

SOLE SELLING AGENT:

FRED. ENDERS & COMPANY

52 Vanderbilt Avenue,

New York City



Direct Sales Service for the Paper Manufacturer

We have the distinction of being the largest sales organization in the East operating exclusively as paper mill representatives. All sales made for the mill direct to the paper merchant.

WE SOLICIT YOUR ACCOUNT ON THE BASIS OF BUILDING UP YOUR NAME AMONG THE LARGEST AND BEST PAPER DEALERS IN THE EASTERN MARKET

Bertson Hill Company
INCORPORATED

Paper Manufacturers' Selling Agents

ASTOR TRUST BUILDING

501 FIFTH AVENUE at 42d STREET

TELEPHONES 4784 & 5986 VANDERBILT

NEW YORK CITY

Are there any Unsolved Big Belt Problems in Your Plant?

Not necessarily problems of big belts, but big problems, whether they apply to a one-inch or a thirty-six-inch belt.

Every belt problem is a big problem until it is settled to a finality. The slipping, stretching, or breaking of a single belt often means a shutdown of one or more machines, and the disruption of production and definite loss.

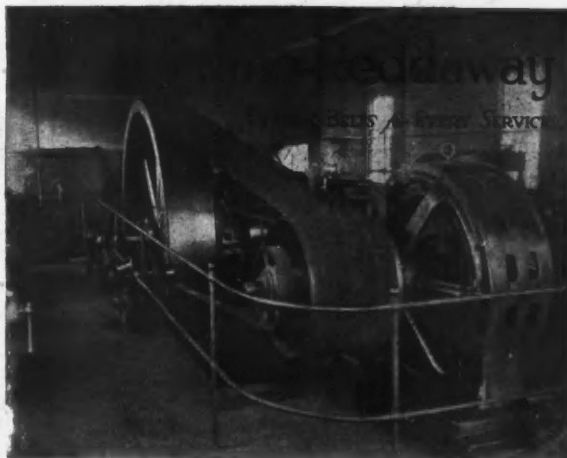
If you happen to have one of these problems facing you now, write us full details and our power transmission engineers will be pleased to supply the answer without obligation.

"Camel Hair" Belting has been tried and proven in the most difficult belt arrangements for over thirty years.

All dealers sell it.

Rossendale-Reddaway
BELTING AND HOSE COMPANY, NEWARK, N.J.

Also makers of solid woven and canvas stitched beltings



"Camel Hair" Belting lasts longer, transmits more horsepower, proves easier on bearings, stretches less than any other class of belting running under the same conditions.

JOBGING DEMAND QUIETER IN PHILADELPHIA MARKET

(Continued from page 30)

E. Latimer, Jr., 4th and Cherry streets, in the development of his new fine paper department, last week took on the Dominion Bond a low priced paper which is carried in white and in thirteen colors and in all the salable sizes and weights. The firm's recent purchase, a 52-inch Saybold cutter was put into operation this week.

Sale of a long established and very well known mill near the city, it is expected, shortly will be announced. The trade has been discussing the transfer for some time, but its owner says that a definite statement at this time would be premature.

George Montague, widely known in this city through long service with the old Irwin N. Megargee Company was a visitor during the week for social rather than business reasons. He now represents the Tileston & Hollingworth Company, Boston.

The Lowe Paper Company, 231 Chestnut street, contemplates branching out into the die wiping and roll paper business and to that end, removal of the executive offices from the first to the second floor is in progress that room may be made for the

installation of winding and slitting machines.

John Franz of A. Hartung & Co., and his friend E. S. Paret, of the Paret Printing Company, have gone to Maine on a vacation trip of several weeks.

A. J. Seymour, of the Molten Paper Company, is spending vacation day at his old home in Indianapolis.

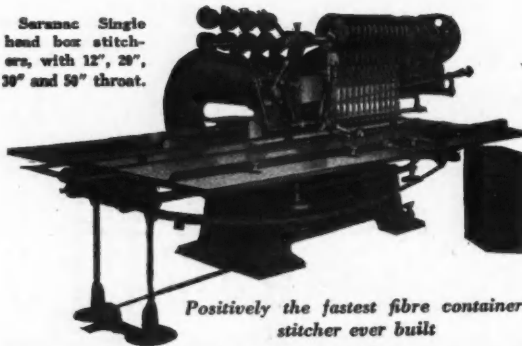
Vice-President Samuel A. Landau, of the National Paper Company, Washington, D. C., visited local jobbers during the week, introducing the line which in view of paper shortage supplies the great need for containers.

The Credit Men's branch of the Philadelphia Paper Trade Association met during the week in the rooms of the Typothetae of Philadelphia, but only routine business was transacted. The Typothetae's official organ *Form 9H* is shortly to make its first appearance in an enlarged and improved form. It will be doubled in size, will be illustrated occasionally and each issue will contain an editorial on a printing or paper trade theme by a Typothetae member.

25 to 40 shipping containers per minute can be made on a

Saranac Automatic Multiple Head Stitcher

Saranac Single head box stitcher, with 12", 20", 30" and 50" throat.



Positively the fastest fibre container stitcher ever built

IT is equipped with twelve stitching heads, so that any number from 1 to 12 staples can be driven at one time. Either a single or double row of staples, or single row with the tie stitch, are automatically driven. It takes less than five minutes to change from the largest to smallest size containers.

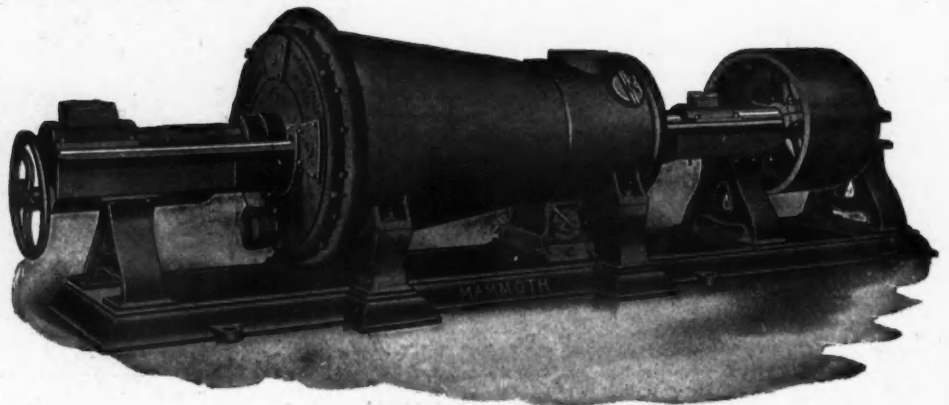
Write for Full Particulars.

We also manufacture Bottom Sealing Machines.

Saranac Machine Company
Benton Harbor, Michigan

**WE MAKE
BEATERS AND
JORDANS OF
QUALITY**

**SIX SIZES OF
JORDANS,
BEATERS,
FROM ¾ LBS.
TO 3000 LBS.**



The Noble & Wood Machine Co., Hoosick Falls, N. Y.



New and Slightly Used Mechanical Equipment

FOR SALE—IMMEDIATE DELIVERY

KILNS
TANKS
PUMPS
CRANES
KETTLES
DRYERS
MIXERS

MOTORS
ENGINES
ACID PLANTS
EVAPORATORS
CENTRIFUGALS
VACUUM PANS

FILTER PRESSES
ALCOHOL UNITS
GENERATOR SETS
TIN CONTAINERS
AIR COMPRESSORS
GLASS LINED TANKS

→ SEND FOR TECHNICAL PRODUCTS
ECONOMIST, LISTING 500 ITEMS ←

Water Tube Boilers

CG237. 14-264 H.P. B. & W. boilers. Drums double riveted, lap joint, 150 lb. pressure.

CG272-A. 2-400 H.P. Wickes water tube boilers. A. S. M. E. code, 150 lb. pressure.

CG294-517 H.P. Stirling boiler, class F, No. 30, drums lap riveted. Hartford inspection, 150 lb.

CG410-A. 4-600 H.P. Babcock & Wilcox boilers. New, never set up. 200 lb. steam pressure. Built according to A. S. M. E. boiler code. Each boiler has 6,001 sq. ft. heating surface. Detrick arches, Detroit stokers. Md.

JK-Ten 823 H.P. B. & W. Stirling boilers, 200 lb. pressure. A. S. M. E. code with Westinghouse underfeed stokers.

WASTE HEAT BOILERS

JK3009—Four 150 H.P. Waste Heat Erie City return tubular boilers, 78 in. diam., 18 ft. long, 150 lb. pressure. No grates or lower fronts. Intended to be fired by waste gas from black ash incinerators. Usual fittings.

EVAPORATORS

TP 939 A Triple effect Yaryan evaporator, 8 coil, each effect has 40 3-in. steel tubes or 360 sq. ft. heating surface per effect. Catch-alls, piping and steel columns. Without condenser or pumps. Can.

TP 1677 A 2-Zaremba triple effect vacuum evaporators, new, each with 2 c. i. bodies 7 ft. i. d., 1 with cone bottom and one with domed bottom; one steel plate body 7 ft. i. d. with domed body. Each unit complete with vapor lines, catchalls, barometric condenser and full pumping equipment, also structural steel supports. Zaremba drawing No. 3242.

CENTRIFUGALS

JK3002—Four sets Weston Centrifugals, Am. Tool & Mach. Co. make, 3 wringers to a set. With copper baskets, wire and perforated brass linings, 3 complete A frames per set and driving mechanism.

DIGESTERS

JK3006—Four new welded steel digesters, Continental Iron Works make, 1,500 cu. ft. capacity each, 8 ft. diam., 27 ft. high. Shell of 3/4 in. soft steel plate, domed heads 13/16 in. plate, 2 3/4 in. charging manhole and 5 in. pipe flange in top; 10 in. discharge and 5 in. pipe flange in bottom. Test pressure 165 lb., working pressure 110 lb., sq. in. Blueprint.

JORDAN ENGINES

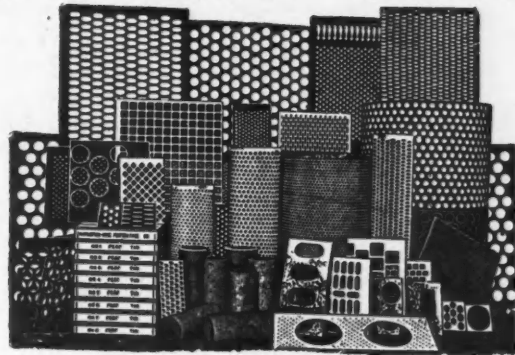
JK3003—Ten Mammoth Jr. Jordan Beater Engines, Noble & Wood make. Capacity 30 tons per 24 hours; 5 are new, 5 are used. Each engine provided with 258 steel bars, 41 long and 41 short, 3/16 in. blocks and oak filler.

INCINERATORS

JK3001—Two Manitowoc Black Ash Incinerators, 8 ft. diam., 21 ft. long. One new, one fired twice. With traverse furnaces, fire brick linings and driving mechanism.

**TECHNICAL PRODUCTS
COMPANY, Inc.**
501 Fifth Avenue, New York
Chicago  Toronto

PERFORATED METALS



Paper and Pulp Mill Screens.
Steel, Iron, Copper, Brass, Bronze

FOR

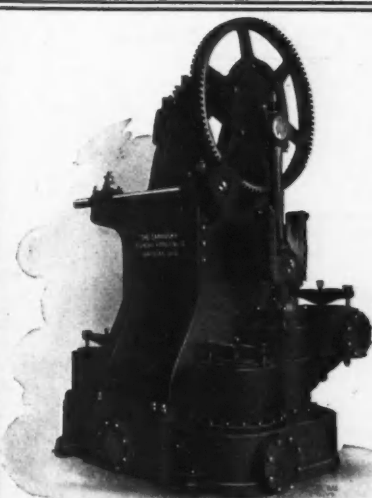
Centrifugal and Rotary Screens, Drainer Bottoms, Filter Plates, Pulp Washers, etc.

All sizes and shapes of holes in many thicknesses and dimensions of sheets.

Accuracy in all details and excellence of quality at lowest consistent prices.

THE HARRINGTON & KING PERFORATING CO.

618 North Union Ave., Chicago, Ill.
114 Liberty St., New York, N. Y.



Save
Money
By
Saving
Power

Hayton Centrifugal Pumps will save their initial cost the first year on an average, and at the same time give you more satisfactory service.

They represent many years of specializing in Paper Mill requirements, and are capable of standing the most severe service.

They are the cheapest pumps on the market, when the cost of operation is taken into consideration.

Let us prove our Claims.

The cut represents the Well-Known Sandusky Triplex Stuff Pump, which has no superior.

Let us solve your pumping problems. Quick Service.

HAYTON PUMP & BLOWER CO.

APPLETON MANUFACTURERS WISCONSIN

Bonds — Ledgers — Writings

All of the same high
standard of value as

SYSTEMS BOND

"The Rag-content Left-dried Paper at the Reasonable Price"



A Grade for Every Requirement

EASTERN MANUFACTURING COMPANY

GENERAL SALES OFFICES

501 Fifth Avenue New York
Mills at Bangor and Lincoln, Maine

JAMES ROSENBERG, Pres. L. W. BOWMALL, Vice Pres.

AMERICAN WOODPULP CORPORATION

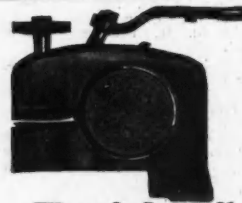
FOREIGN AND DOMESTIC
CHEMICAL and MECHANICAL
WOODPULPS

Rags, New Cuttings, Bagging, Etc.
Chemicals of All Descriptions

New York—347 Madison Ave.

BRANCHES:
Stockholm—Sweden
Helsingfors—Finland

Holyoke—J. B. Woodruff, Inc.
Kalamazoo—F. D. Haskell
Dayton—R. R. Reed



**The Ashcroft
Paper Tester**



**The Ashcroft
Thickness Gauge**

Actual necessities for all those who make, sell or purchase paper in any form. The thousands in daily use testify to their efficiency.

THE ASHCROFT MFG. CO.

119 West 49th Street New York
29 North Jefferson Street Chicago, Ill.
19 High Street Boston, Mass.
Canadian Sales Agents: The Canadian Fairbanks Morse Co., Montreal and Toronto.

ESTABLISHED 1842

FOURDRINIER WIRES

DANDY ROLLS
CYLINDER
MOLDS

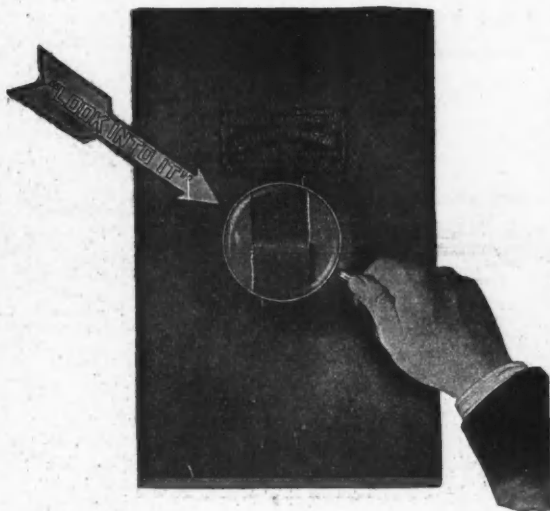
CHENEY BIGELOW WIRE WORKS
SPRINGFIELD, MASS.

MANUFACTURERS

Brass, Copper and Wire Cloth,
Bank and Office Railings and Grille Work

"Sensation" High Speed Belt

Maker of Service Records, based directly on a distinct departure in Belting construction



NO BELT has shown the tensile strength, the compact inseparable plies, the elimination of stretch, the close pulley contact, the resistance to frictional heat and climatic variations that "SENSATION" belt has demonstrated. Adapted to all hard services, but especially designed for paper mill work.

The belt you will be wise to run and be glad to pay for.

Ask for sample and "look into it."

Voorhees Rubber Mfg. Co.

Main Office and Factory:

20 to 56 Bostwick Avenue Jersey City, N. J.

New York 33 Vesey Street

NEW AND SLIGHTLY USED MILL AND POWER PLANT MACHINERY

Available for Immediate Delivery

Send for **TECHNICAL PRODUCTS ECONOMIST**, listing about 500 items including Boilers, Heaters, Condensers, Pumps, Tanks of all kinds, Evaporators, Centrifugals, Digesters, Jordan Engines, Mixers, Motors, Generator Sets, etc.

NR 2011—50-Ton Pulp Mill, with six steel plate digesters, 8 ft. diam. 27 ft. high, complete with pumps, motors, tanks, building steel, etc.

TECHNICAL PRODUCTS CO.

INCORPORATED

501 Fifth Avenue, New York



The Costly Way

The Yale Way



The Yale Way is the One-Man Way

MANY delays in Shipping and Receiving Departments can be overcome with the installation of a Yale Chain Block and Trolley System.

One man with the Yale Chain Block and Trolley accomplishes the handling of loads quicker and safer than a gang of men.

'From Hook-to-Hook-a-Line-of-Steel'

The new Yale 19D catalog shows you many ways to save money and increase production in your plant by using Yale Chain Blocks and Electric Hoists.

Let us send you your copy.

For a factory locking equipment use a Yale Master-Key System.

THE YALE & TOWNE MFG. CO.
Makers of the Yale Locks

Stamford Conn.



PARAGON- EXCELSIOR

WE are the largest washed clay producers in America, the daily capacity of our five plants exceeding 300 TONS DAILY.

Our *reserve stocks* are the largest in America.

Our *experience* in clay washing extends many years beyond that of our nearest competitors.

Our clay is positively the lowest in percentage of grit and moisture in any clay, *domestic* or *foreign*.

CLAY

When you contract with us for shipments you can depend upon *prompt deliveries* whether the season is rainy or dry.

Our crude clay is mined from the Famous Paragon Mine at Langley, S. C.

That, in a few words, is our story.

We hope to serve you.

MINER-EDGAR COMPANY
30 CHURCH ST., NEW YORK

E.W.N.-D.B.-G.W.-K.L.M.



PAPER SHOPPING BAGS

Do not refuse business. Carry our line of heavy kraft paper shopping bags. Best sellers on the market. Samples sent to rated concerns only. Inquiries from jobbers solicited.

A. M. SIMON & CO.
350-A West 36th St.,
New York City



Paper Shopping Bag With Handle For Shopping or Knitting. With and without colored pictures.

Paper School Bag of kraft paper, two sizes.

We are now making plain and fancy shopping bags in all cloth and imitation leather.

Francis Hughes Company

Packers and Graders of

Paper Mill Supplies

Correspondence Solicited

21st Street at Loomis, Chicago, Ill.

Private Switch on C. B. & Q. Tracks



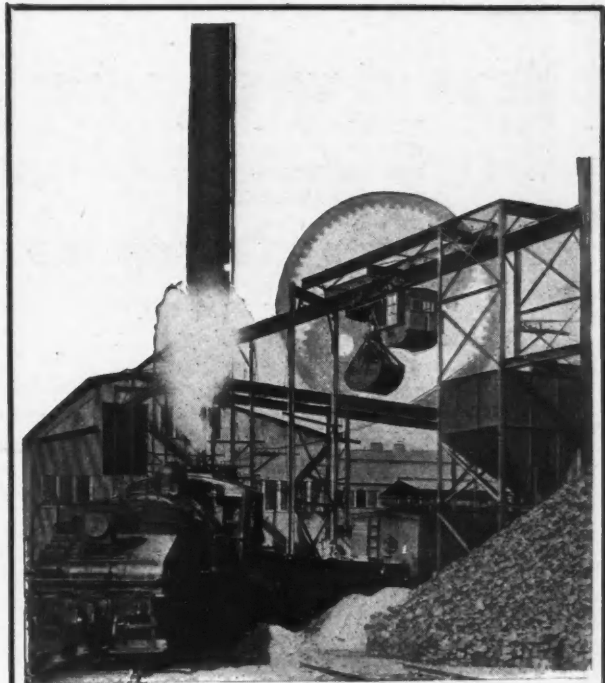
Manufacturers of

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.

TRY US AND SEE

EASTERN SALES OFFICE, 501 Fifth Avenue, NEW YORK CITY



Equivalent of a nearby coal pile

Distance or the location of the storage pile makes no difference to a Shepard Electric Hoist equipped with an automatic bucket. It delivers coal quickly, smoothly and economically from any point direct to the boiler room. It expedites the unloading of cars.

One man controls a "Shepard" and the entire operation of coal handling. He accomplishes more efficiently the work of a gang in less time at less cost.

Shepard Engineers are capable to work with you in laying out the proper coal handling equipment for any plant, large or small. Their services are offered without obligation on your part.

Shepard Electric Cranes and Hoists are made in capacities of 1/2 to 50 tons.

Shepard Electric Crane & Hoist Co.

378 Schuyler Ave. Montour Falls, N. Y.

New York	Philadelphia	Pittsburgh	Chicago
Boston	San Francisco	Baltimore	Cleveland
Detroit	Melbourne	Montreal	London

*Member Electric Hoist Manufacturers' Assn.
Member Material Handling Machinery Manufacturers' Assn.*



ALL QUALITIES JUTE THREADS, WASTES & CUTTINGS

WASTE PAPERS
BAGGING: CANVAS
NEW CUTTINGS: RAGS
WHITE MANILA ROPE

IMPORTERS AND EXPORTERS

JOHN M. WATSON & CO.
CROWNPOINT WORKS, DAVID ST.
Glasgow, Scotland

"You can always get a square deal from Hano"

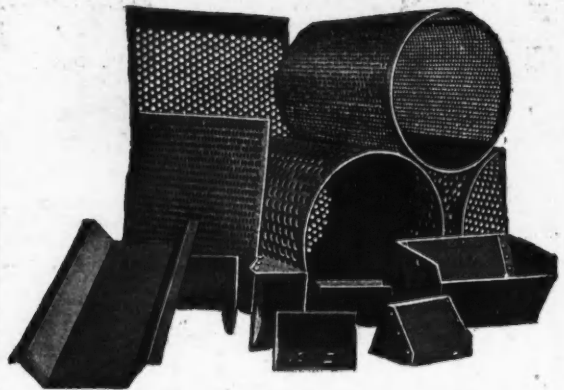
So say many handlers of paper. At present we are in need of seconds in books and sulphite bonds. Wire or write us.

PHILIP HANO & CO.
Paper Dealers
806 Greenwich St., New York

PERFORATED METAL SCREENS

IN STEEL AND ALLOYED METALS

For Pulp and Paper Mills



Elevator Buckets, Conveyor Flights
and Troughs, General Sheet and
Light Structural Work

HENDRICK MANUFACTURING CO.
75 Dundaff Street, Carbondale, Pa.
New York Office, 30 Church St.

CENTRAL MANUFACTURING COMPANY

THE QUICK SERVICE HOUSE

KALAMAZOO, MICH.

Manufacturers of

High Grade Brass and Bronze Screen Plates and Dandy Rolls

OLD PLATES
CLOSED AND RECUT



DANDY ROLLS AND
WATER MARKING

Secure Our
Prices



We Can
Please You

SEND FOR THIS 36-PAGE BOOK



on Plibrico Jointless Fire Brick

Contains instructions on setting all types of boiler furnaces and brass and metal furnaces. Gives full directions on how to build and maintain tight furnace linings.

Every engineer and plant operator should have a copy for reference.

Will be glad to send you a copy on request.

JOINTLESS FIRE BRICK CO.

Office and Factory: 1130-1150 Clay St., Chicago, Ill.

Canadian Representatives
Beveridge Paper Co., Ltd., Montreal



Trade Mark
Reg. U. S. Pat. Office



TRADE MARK

**AUER & TWITCHELL
PAPER**

In addition to being general paper distributors, we are manufacturers of
Paper Twine, Paper Tubes, and Paper Cores for Paper Mills

Manufacturing Plants at
 Philadelphia Unionville, Conn.
 Beverly, N. J.

Offices
 Philadelphia Beverly, N. J. New York

**The Procter & Gamble
Distributing Company**
 CINCINNATI, OHIO


Mills at Augusta, Georgia and Memphis, Tennessee

Makers of


Highest Grades Bleached Chemical
 Pulp from Cottonseed Hull Fibre

Offered under the Following Brands:

“P & G”
 BLEACHED PULP



BUCKEYE
 BLEACHED PULP

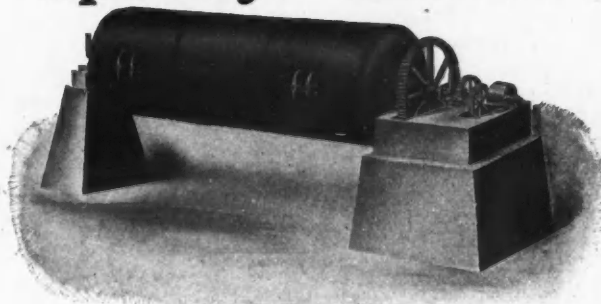


Especially Suitable for the Better Grades of Paper

SOLE AGENTS IN UNITED STATES AND CANADA

The Pulp & Paper Trading Co.
 21 East 40th Street, New York City

Specify “BIGGS” Rotaries



CYLINDER

in “your” next
 installation!

There’s a Reason

Steel pressure and stor-
 age tanks for every
 purpose.

WRITE FOR PRICES



GLOBE

The Biggs Boiler Works Company
 AKRON, OHIO, U. S. A.

THE C. L. LABOITEAUX COMPANY

We call the attention of the Jobbing Trade to our unequalled facilities for prompt shipment of

**Mill Blanks, Bogus Bristols, Marble Grained Jute Boards, Clay Coated Box
 Boards, Binders’ Board, Paper Box Board, Pasted
 Boards, and Paper Board Specialties**

CINCINNATI

CHICAGO

NEW YORK

CLEVELAND

Write for our new Blue Book, just issued, containing valuable information in regard to Box Boards, Paper and Specialties.

New York Market Review

OFFICE OF THE PAPER TRADE JOURNAL,
WEDNESDAY, July 21, 1920.

During the past week very little change has been reported throughout the entire market. Business in general has eased up slightly, which is accounted for by reason of the usual summer months' lull. A little improvement in the railroad situation is said to have taken place, while few people declare it is worse. The usual idea on the subject is that shipments are fair and slow coming in, but that the roads are taking freight and that it is less difficult to get material shipped than it has been for some time previous. The market shows a firm trend, with fewer price changes recorded than for some weeks past. No great quantities of supplies are in the local market. Most jobbers and consumers continue to buy cautiously, figuring that general conditions are so unusual, to say the least, that rather than be caught with large stocks on hand in the event of a declining price movement, they would prefer to pay a little more for the privilege of buying when they so choose—that is, when they will be in a little better position to gauge the fall business.

Since last week the market in spot news print has changed very little. Business continues dull with few buyers in the field. While no large tonnage is in the hands of the jobbers, this short supply is not strained in lieu of the weak demand. An attractive price, around 11.50 cents, must be quoted on spot news before much attention is paid to most offerings, except in the case of a badly pressed consumer. Continued activity is evidenced by sheet news print, with a quotation around 13.50 cents holding firm. The mills continue working very strenuously in order to fill their orders for contract news print.

Shipments of book paper are reported a little better and much stuff seems to be coming through. A shortage of this kind of paper still exists, while the demand appears at times to be insatiable. The jobbers are buying where they can, but as a rule their supplies are not very large. Prices have not changed and remain very firm.

In the fine paper market matters have not changed any since the preceding week. Business is said to be good, although due to the season, it has eased off slightly. The stocks in New York are pretty low, and the shipment of supplies from New England are still attended with much difficulty. Prices are firm, with no changes recorded.

Tissue prices have undergone no change since last week. A fair demand continues, and most of the available tonnages generally finds its way into the jobbers' or consumers' hands at the prevailing prices. Heavy buying for future business is not reported by the jobbers. Shipments, while slow in arriving, are coming through in better shape than heretofore. Prices continue firm.

A big demand is reported for all kinds of paper boards, particularly manila lined and folding box stock. The supply seems totally inadequate to satisfy the many real inquiries. Prices are too high and the demand too active to permit of much stock in the hands of jobbers in the local market. The railroad congestion still hinders business operations in this field. Prices are very firm, with a small increase in a few lines.

In spite of the increasing dullness coarse paper prices continue very firm with no apparent improvement in the way of available tonnage. It is thought in many quarters that the car shortage will soon influence the market and although there is now a wide variance in prices a solid and higher foundation is anticipated by the fall. While warehouse stocks are reported to be very low, it appears that jobbers are disposing of newly arrived shipments at a slight sacrifice where necessary.

Mechanical Pulp

Ground wood continues rather scarce, with very little spot goods available. The effect of the dry season makes itself felt more week by week, hence no increased production can reasonably be looked forward to in this country during the summer months. This situation is expected, not only to keep this market firm, but to increase the price of wood pulp in the early fall. High prices are generally reported, but in most cases where exceptional quotations are mentioned the mills paying them are in dire need of pulp.

Chemical Pulp

The chemical pulp market continues firm, with a great demand still prevailing. Domestic kraft shows a firmer tendency than it did last week. To get sufficient quantities of bleached, sulphite is still a very difficult matter, and it is said, in some quarters, that prices a little above the current quotations have been paid for spot supplies.

Little foreign stuff finds its way to our shores. Foreign bleached sulphite is too out of line with our quotations to permit of much importation, even though a large shortage exists here for this kind of pulp.

Domestic and Foreign Rags

This market as an entity is not very active. One reason for this dullness is ascribed to the season, while the crowded conditions of the mills, and the poor shipping facilities are also suggested as further explanations. A good demand exists, however, for most grades of white rags, with new white No. 1 showing an increase over last week's quotation. Roofing rags continue very slow, but have not suffered the indignity of further price declines.

Practically no demand is said to exist for foreign rags, with few importations reported. Prices remain about the same, with a little easing up in dark cottons and shoppery recorded.

Old Rope and Bagging

The rope market is quiet, with very little business being transacted. Virtually no demand obtains. Prices are the same.

Bagging seems to interest few buyers these days, and most offerings go unheeded. The mills seem to have sufficient supplies of bagging (as well as rope) on hand, so very attractive prices must be made to gain their attention.

Waste Paper

The demand in this market is strong, with much interest displayed on the part of the mills for most grades. Shavings are reported very active and mixed paper, which was a little weak last week, has recovered and now enjoys a brisk demand. A dullness is reported in magazine stock, with a consequent decline in price following. There seems to be a supply able to take care of most of the needs of the trade. As a whole, prices in this field show a firm trend.

Twine

Conditions in the twine market remain about the same. The demand continues good, with the supply not equal to the occasion. The mills continue crowded with orders and working very hard to catch up. It is rumored in the trade that about fifteen new mills are to open up in Calcutta between now and January, 1921. If this proves to be true, these additional mills will make inroads on the India jute crop, which from present indications may be short. So much less will jute be exported from India, and so much less will twine plants be able to get in this country as well as abroad.

Co-operative Paper Buying

FORT SCOTT, Kan., July 19, 1920.—George W. Marble, editor of the Fort Scott "Tribune," has been in Canada on a mission for Kansas newspapers in an effort to make a deal with Canadian mills for co-operative paper buying by the smaller newspapers. He writes that the plan has been received with "warm sympathy" by one of the larger manufacturers.

Market Quotations

Paper Company Securities

New York Stock Exchange closing quotations July 20, 1920.

STOCKS	BID	ASKED
American Writing Paper Company, pref.	45	47
International Paper Company, com.	83	84 1/2
International Paper Company, pref., stamped.	74	75
Union Bag & Paper Corporation	87	88
United Paper Board	28	28

Because of the unusual conditions prevailing in the various markets quotations are more or less nominal.

Paper

F. o. b. Mill.	
Bonds	19 @ 66
Ledgers	18 @ 48
Writing	
Extra Superfine	28 @ 38
Superfine	22 @ 26
Tub Sized	17 @ 22
Engine Sized	15 @ 22
News—f. o. b. Mill—	
Rolls, contract	5.00 @ 6.50
Rolls, transit	12.00 @ 12.50
Sheets	
Side Runs	6.75 @ 8.50
Book, Cased—f. o. b. N. Y.—	
S. & S. C.	14.00 @ 18.00
M. F.	14.00 @ 15.00
Coated and Enamel	18.00 @ 20.00
Lithograph	18.00 @ 20.00
Tissues—f. o. b. N. Y.—	
White, No. 1	2.00 @ 2.25
White, No. 2	1.85 @ 2.00
Manila, No. 1	1.85 @ 2.00
Kraft	2.00 @ 2.25
Colored	2.00 @ 3.50
Anti-Tarnish	2.25 @ 3.50
Kraft—f. o. b. Mill—	
No. 1 Domestic	12.00 @ 13.00
No. 2 Domestic	10.50 @ 11.50
Imported	15.00 @
Screenings	8.00 @ 9.00
Manila—	
No. 1 Jute	14.00 @ 16.00
No. 2 Jute	11.00 @ 12.00
No. 1 Wood	10.00 @ 11.00
No. 2 Wood	9.00 @ 10.00
Butchers	6.00 @ 7.00
Fibre Papers—	
No. 1 Fibre	8.00 @ 9.00
No. 2 Fibre	7.00 @ 8.00
Common Bogus	6.00 @ 7.00
Card Middies	5.50 @ 6.00
Boards—per ton—	
News	125.00 @ 135.00
Straw	115.00 @ 120.00
Chip	115.00 @ 125.00
Binders' Board	130.00 @ 140.00
Sgl. M.Ld. Chip	170.00 @ 180.00
Wood Pulp	150.00 @ 160.00
Container	175.00 @ 195.00

Mechanical Pulp

(F. o. b. Pulp Mills.)

No. 1 f.o.b. Mill	140.00 @
-------------------	----------

Chemical Pulp

(Ex-Dock, New York.)

Sulphite (Foreign)—	
Bleached	14.00 @ 16.00
Easy Bleaching	11.00 @ 13.00
No. 1, unbl'ch'd	10.00 @ 11.50
No. 2, unbl'ch'd	9.50 @ 10.00
Kraft (Foreign)	7.50 @ 8.00
Sulphate—	
Bleached	nominal
(F. o. b. Pulp Mill.)	
Sulphite (Domestic)—	
Bleached	12.50 @ 14.00
Strong Unbl'ch'd	8.50 @ 9.50
Easy Bleaching	
Sulphite	9.00 @ 9.75
News Sulphite	8.25 @ 8.75
Mitscherlich	9.00 @ 10.00
Kraft (Domestic)	7.50 @ 8.00
Soda Bleached	nominal

Domestic Rags

Prices to Mill, F. o. b. N. Y.

Shirt Cuttings—	
New White, No. 1	21.00 @ 22.50
New White, No. 2	11.50 @ 12.00
Silesias, No. 1	12.00 @ 12.50
New Unbleached	17.00 @ 17.50
Washables	11.00 @ 11.50
Fancy	13.25 @ 13.50
Cottons—according to grades—	
Blue Overall	12.00 @ 12.25
New Blue	10.00 @ 10.50

New Black Soft	7.50 @ 8.00
New Light Sec.	
onds	6.75 @ 7.00
Khaki Cuttings	7.50 @ 8.00
Corduroy	7.25 @ 7.75
New Canvas	14.00 @ 14.50
New Black Mixed	5.00 @ 5.25
Old	

White, No. 1—	
Repacked	13.50 @ 14.00
Miscellaneous	12.50 @ 12.75
White, No. 2—	
Repacked	7.00 @ 7.50
Miscellaneous	5.50 @ 5.75
St. Soiled White	3.90 @ 4.10

Thirds and Blues—	
Repacked	4.75 @ 5.00
Miscellaneous	3.75 @ 4.00
Black stockings	4.50 @ 5.00
Cloth Strippings	3.50 @ 3.60

Roofing Stock—	
No. 1	2.60 @ 2.75
No. 2	2.25 @ 2.40
No. 3	1.60 @ 1.70
No. 4	1.60 @ 1.70
No. 5A	1.35 @ 1.40
B	1.25 @ 1.30
C	1.10 @ 1.15

Foreign Rags

New Light Silesias	11.00 @ 12.50
Light Flannelettes	12.00 @ 13.00
Unbleached Cottons	14.00 @ 15.00
New White Cuttings	17.50 @ 18.00
New Light Oxfords	nominal
New Light Prints	11.00 @ 12.00
New Mixed Cuttings	7.00 @ 8.00
New Dark Cuttings	4.50 @ 4.75
No. 1 White Linens	nominal
No. 2 White Linens	nominal
No. 3 White Linens	10.00 @ 12.00
No. 4 White Linens	8.00 @ 10.00
Old Extra Light Prints	5.00 @ 5.50
Ord Light Prints	4.50 @ 4.75
Med. Light Prints	4.00 @ 4.25
Dutch Blue Cottons	4.50 @ 4.75
Ger. Blue Cottons	nominal
Ger. Blue Linens	nominal
Checks and Blues	nominal
Dark Cottons	2.75 @ 3.00
Shoppery	2.65 @ 2.90
French Blues	nominal

Bagging

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

Gunny No. 1—	
Foreign	2.50 @ 2.88
Domestic	3.25 @ 3.50
Wool Tares, light	3.15 @ 3.30
Wool Tares, heavy	3.50 @ 3.75
Bright Bagging	3.25 @ 3.50
No. 1 Scrap	2.75 @ 2.90
Sound Bagging	2.75 @ 3.00
Manila Rope—	
Foreign	7.25 @ 7.50
Domestic	7.75 @ 8.00
New Bu. Cut	5.25 @ 5.50
Hessian Jute Threads—	
Foreign	7.00 @ 7.50
Domestic	6.50 @ 7.00
Mixed Strings	3.00 @ 3.25

Twines

(F. o. b. Mill)

Cotton—	
No. 1	82 @ 83
No. 2	75 @ 76
No. 3	71 @ 72
India, No. 6 basis	
Light	32 @ 33
Dark	30 @ 31
B. C. 18 Basis	35 @ 37
A. B. Italian, 18 Basis	\$1.00 @
Finished Jute—	
Light, 18 basis	42 @ 43
Dark, 18 basis	40 @ 41
Jute Wrapping, 2-6 Ply	
Extra No. 1	40 @ 42

No. 1	36 @ 38
No. 2	34 @ 36
Tube Rope—	
5-ply and larger	28 @ 30
Fine Tube Yarn—	
5-ply and larger	35 @ 38
4-ply	35 @ 38
3-ply	37 @ 39

Unfinished India—	
No. 8 (3-ply and larger)	25 @ 26
Paper Makers Twine	
Balls	22 @ 24
Box Twine, 2-4 ply	23 @ 25
Jute Rope	20 @ 21
Amer. Hemp, 6	37 @ 39
Sisal Hay Rope—	
No. 1 Basis	20 @ 22
No. 2 Basis	18.50 @ 20
Sisal Lath Yarn—	
No. 1	19.25 @ 19.75
No. 2	17.50 @ 19.50
Manila Rope	27 @ 28

Old Waste Papers

(F. o. b. New York.)

Shavings—	
Hard White, No. 1	8.25 @ 8.50

Hard White, No. 2	7.00 @ 7.25
Soft White, No. 1	7.00 @ 7.25
Colored, No. 1	2.50 @ 2.75
Flat Stock—	
Stitchless	3.90 @ 4.00
Over Issue Mag.	3.50 @ 3.75
Solid Flat Book	3.00 @ 3.15
Crumpled, No. 1	2.85 @ 3.00
Solid Book Ledger	4.00 @ 4.25
Ledger Stock	4.00 @ 4.25
No. 1 White News	5.25 @ 5.50
New B. B. Chips	1.90 @ 2.00

Manila—	
New Env. Cut	4.75 @ 5.25
New Cut No. 1	4.00 @ 4.25
Extra No. 1 Old	3.50 @ 3.75
Print	2.50 @ 2.75
Container Board	2.20 @ 2.30
Bogus Wrappers	2.00 @ 2.25
Old Krafts, machine compressed	
Bales	5.00 @ 5.25

News—	
Strictly Overissue	2.25 @ 2.30
Strictly Folded	2.15 @ 2.20
No. 1 Mixed Paper	1.80 @ 1.90
Common Paper	1.40 @ 1.60

CHICAGO

[FROM OUR REGULAR CORRESPONDENT.]

Paper	
F. o. b. Mill	
All Rag Bond	45 @
No. 1 Rag Bond	30 @ 40
No. 2 Rag Bond	26 @ 38
Water Marked Sulphite	21 @ 23
Sulphite Bond	19 @ 21
Sulphite Ledger	22 @ 25
Superfine Writing	28 @ 35
No. 1 Fine Writing	26 @ 33
No. 2 Fine Writing	24 @ 31
No. 3 Fine Writing	20 @ 22
No. 1 M. F. Book	15 @ 16
No. 1 S. & S. C. Book	16 @ 17
Coated Book	18 @ 22
Coated Label	17 1/2 @ 22
News—Rolls mill	12 1/2 @ 13 1/2
News—Sheets mill	13 @ 15
No. 1 Manila	10 1/2 @ 11
No. 1 Fibre	9 @ 9 1/2
Butchers' Manila	— @ —
No. 1 Kraft	12 1/2 @ 13
No. 2 Kraft	11 @ 11 1/2
Wood Tag Board	10 1/2 @ 11
Screenings	7 @ 7 1/2

Board being sold at price prevailing at time of shipment.	
Boards, per ton—	
Plain Chip	105.00 @ 115.00
Solid News	120.00 @ 130.00
Manila Lined	
Chips	135.00 @ 150.00
Container liner 85	
85 Test	140.00 @ 150.00

Old Papers

100 Test	155.00 @ 165.00
Solid Wood Pulp	140.00 @ 150.00
Straw Board	95.00 @ 115.00
Filled Pulp Board	135.00 @ 150.00
Shavings—	
No. 1 Hard White	6.50 @ 7.00
No. 1 Soft Shav.	6.00 @ 6.50
No. 1 Mixed	2.00 @ 2.10
No. 2 Mixed	1.75 @ 2.00
White Envel. Cutting	7.00 @ 7.25
Ledgers and Write	
ings	3.50 @ 3.75
Solid Books	3.35 @ 3.50
No. 1 Books, light	3.00 @
Blanks	4.50 @ 5.00
Ex. No. 1 Manila	4.50 @ 4.75
Manila Envelope	
Cuttings	5.00 @
No. 1 Manilas	3.00 @ 3.25
Folded News (over issue)	2.30 @ 2.40
Old Newspapers	2.10 @ 2.20
Mixed Papers	2.00 @ 2.10
Straw Clippings	2.25 @ 2.50
Binders' Clippings	2.00 @ 2.10
Kraft	5.25 @ 5.50
New Craft Cuts	5.50 @
Roofing Stock, f.o.b. Chicago, Net Cash—	
No. 1	55.00 @
No. 2	53.00 @
No. 3	51.00 @
No. 4	51.00 @

PHILADELPHIA

[FROM OUR REGULAR CORRESPONDENT.]

Paper	
Bonds	14 @ 55
Ledgers	17 1/2 @ 41
Writings—	
Superfine	15 @ 35
Extra fine	35 1/2 @
Fine	17 @ 25
Fine, No. 3	27 @
Book, M. F.	11 @ 12 1/2
Book, S. S. & C.	11 @ 12 1/2
Book, Coated	12 @ 17
Coated Lithograph	15 @ 17
Label	15 @ 17
News	8 @ 15
No. 1 Jute Manila	16 @
Manila Sul., No. 1	8 @
Manila No. 2	7 @ 9
Common Bogus	— @
Straw Board	Nominal
News Board	120.00 @ 130.00
Chip Board	100.00 @ 120.00
Wood Pulp Board	Nominal

(Carload Lots.)

Binder Boards—	
Per ton	85.00 @ 95.00
Carload lots	80.00 @
Tanned Felts—	
Regular	95.00 @ 100.00
Slaters'	100.00 @ 104.00

Best Tarred, 1-ply (per roll)	65 @ 70
Best tarred, 2-ply (per roll)	1.65 @ 1.70
Best tarred, 3-ply	2.15 @ 2.20

Bagging

F. o. b. Phila.

Gunny No. 1—	
Foreign	3.50 @ 3.75
Domestic	3.50 @ 3.75
Manila Rope	8.50 @ 8.25
Sisal Rope	2.80 @ 2.75
Mixed Rope	3.00 @ 3.25
Scrap Burlaps	3.00 @ 3.25
Wool Tares, heavy	5.20 @ 5.50
Mixed Strings	3.00 @ 3.25
No. 1, New Lt. Burlap	10.50 @ 12.00
New Burlap Cuttings	4.00 @ 4.25

Old Papers

F. o. b. Phila.

Shavings—	
No. 1, Hard	
White	7.75 @ 8.00
No. 2, Hard	

Imports and Exports of Paper and Paper Stock

NEW YORK, BOSTON, PHILADELPHIA AND OTHER PORTS

NEW YORK IMPORTS

WEEK ENDING JULY 17, 1920.

SUMMARY.

Cigarette paper	335 cs.
Printing paper	37 cs.
Photo paper	9 cs.
Tissue paper	2 cs.
Parchment paper	8 cs.
Waste paper	11 cs.
Paper hangings	5 bis.
Writing paper	2 ca.
Packing paper	174 bis.
Miscellaneous paper	44 cs., 5 bis.

CIGARETTE PAPER.

P. J. Schweitzer, Western, Havre, 216 cs.
P. J. Schweitzer, Tarantia, Genoa, 13 cs.
Huttlinger & Struller, Vaarli, Genoa, 83 cs.
W. R. Grace & Co., P. de Satrustegni, Barcelona, 21 cs.
J. Victory, by same, 2 cs.

PRINTING PAPER.

Meyercord Company, Rimouski, Liverpool, 9 cs.
Palm Brothers & Co., by same, 10 cs.
Oxford University Press, by same, 14 cs.
Louis Frey, Rotterdam, Rotterdam, 4 cs.

PHOTO PAPER.

Anso Co., Dryden, Brazil, 6 cs.
W. Clements (Philadelphia), Chipana, Liverpool, 3 cs.

TISSUE PAPER.

Davies, Turner & Co., Chipana, Liverpool, 2 cs.

PARCHMENT PAPER.

Irving National Bank, Lapland, Antwerp, 8 cs.

WALL PAPER.

The Prager Company, Lapland, Antwerp, 11 cs.

PAPER HANGINGS.

A. C. Dodman, Jr., Inc., K. A. Victoria, Liverpool, 5 bis.

WRITING PAPER.

Arthur & Co., Rochambeau, Havre, 2 cs.

PACKING PAPER.

Pennsylvania Export Corporation, Rotterdam, Rotterdam, 174 bis.

PAPER.

Hensel, Bruckman & Lorbacher, Rotterdam, Rotterdam, 3 cs.
Japan Paper Company, G. Verdi, Genoa, 23 cs.
A. C. Dodman, Jr., Inc., Londonier, Antwerp, 5 bis.
G. Rosenstein, Rochambeau, Havre, 3 cs.
Baldwin Universal Consolidated Company, E. Luckenbach, Rotterdam, 15 cs.

RAGS, BAGGINGS, ETC.

Sanderson & Son, Toronto, Antwerp, 119 bis. rags, 28 bis. new cuttings.
Castle, Gottheil & Overton, Londonier, Antwerp, 105 bis. bagging.
E. J. Keller Company, by same, 224 bis. rags.
Irving Trust Company, by same, 182 bis. rags.
National City Bank, by same, 498 bis. rags.
A. Salomon, Inc., by same, 1,039 bis. rags, 288 bis. flax waste.
W. Schall & Co., by same, 214 bis. rags.
Standard Bank of South Africa, by same, 105 bis. rags.
M. O'Meara Company, by same, 33 bis. rags.
Salomon Brothers & Co., by same, 363 bis. rags, 150 bis. bagging.
Bank of New York, by same, 333 bis. bagging, 63 bis. rags.
Paul Berlowitz, by same, 379 bis. rags.

Ladenburg, Thalman & Co., by same, 131 bis. rags, 130 bis. bagging.

Atlantic National Bank, by same, 69 bis. rags.
Equitable Trust Company, by same, 44 bis. rags, 45 bis. bagging.

R. F. Downing & Co., by same, 96 bis. bagging.
Brown Brothers & Co., by same, 39 bis. rags.
Middleton & Co., by same, 152 bis. rags.

Parsons & Whittemore, by same, 37 bis. rags.
American Foreign Banking Corporation, by same, 25 bis. rags.

Citizens' National Bank, by same, 27 bis. rags.
Guaranty Trust Company, by same, 36 bis. rags.
R. F. Downing & Co., E. Luckenbach, Rotterdam, 32 bis. cotton waste.

Railway Supply Manufacturing Company, Vaarli, Genoa, 113 bis. cotton waste.
Royal Manufacturing Company, by same, 29 bis. cotton waste.

Dallas Waste Mills, by same, 50 bis. cotton waste.

E. J. Keller Company, by same, 120 bis. bagging, 885 bis. paper stock.

Albion Trading Company, Rimouski, Liverpool, 54 bis. rags.
American Foreign Banking Corporation, Siberian Prince, Havre, 86 bis. bagging.

W. Hughes, by same, 77 bis. bagging.
Atterbury Brothers, by same, 212 bis. bagging.
Ladenburg, Thalman & Co., by same, 188 bis. bagging.

Old Colony Trust Company, by same, 77 bis. bagging.
Wilkinson Brothers & Co., by same, 176 bis. bagging.

P. Berlowitz, by same, 363 bis. bagging.
E. Butterworth & Co., by same, 57 bis. bagging.
A. Salomon, Inc., by same, 167 bis. bagging.

W. Schall & Co., by same, 408 bis. bagging.
Parsons & Whittemore, by same, 42 bis. bagging.
Goldstein & Sons, by same, 170 bis. bagging.

Goldman, Sachs & Co., by same, 87 bis. bagging.
Atlantic National Bank, by same, 47 bis. rags.
Dallas Waste Mills, by same, 222 bis. cotton waste.

First National Bank of Boston, Bristol City, Bristol, 354 bis. rags.

Castle, Gottheil & Overton, Kinderdijk, Rotterdam, 320 bis. old cottons, 34 bis. old cloths, 28 bis. old fustians, 69 bis. old curtains.

Parsons & Whittemore, by same, 228 bis. old shoppery, 108 bis. old fustians, 409 bis. old cottons, 226 bis. bagging, 469 bis. rags.

W. Hughes, by same, 162 bis. old carpets, 225 bis. old cloths, 158 bis. old cottons.

E. Gross & Co., by same, 427 bis. old cottons, 241 bis. old wipers, 269 bis. bagging, 222 bis. paper stock, 75 bis. rags.

Salomon Brothers & Co., by same, 567 bis. rags, 235 bis. old cottons.

Jaffe & Co., by same, 51 bis. new cuttings, 85 bis. old papers, 26 bis. old cottons, 46 bis. baggings.

Northern Metals Selling Company, by same, 56 bis. bagging.

Gotham Paperstock Company, by same, 27 bis. bagging, 24 bis. new cuttings.

W. V. Doorn, by same, 295 bis. paper stock.
Irving National Bank, by same, 58 bis. old cottons.

Main Paperstock Company, by same, 214 bis. old cotton.

Dallas Waste Mills, by same, 101 bis. old cottons, 141 bis. old curtains, 34 bis. paperstock.

Gatti, McQuade Company, by same, 26 bis. paperstock, 854 bis. old cottons, 97 bis. bagging, 46 bis. new cuttings.

E. J. Keller Company, by same, 90 bis. new cuttings, 616 bis. rags.

G. W. Miller & Co., by same, 68 bis. paperstock, 387 bis. old cottons.

I. Kaufman & Son, by same, 98 bis. bagging.
S. Rubens & Brothers, by same, 86 bis. old cottons.

M. O'Meara Company, by same, 109 bis. old cottons.
Heidelbach Ickelheimer & Co., by same, 415 bis. rags.
First National Bank of Boston, by same, 102 bis. rags.

Wilkinson Brothers & Co., by same, 30 bis. new cuttings.

Bartley Manufacturing Company, by same, 116 bis. bagging.
R. Goldstein & Sons, by same, 91 bis. paperstock.

Ladenburg, Thalman & Co., by same, 77 bis. old canvas.

Castle, Gottheil & Overton, Siberian Prince, Havre, 220 bis. rags.

Castle, Gottheil & Overton, Londonier, Antwerp, 225 bis. rags.

OLD ROPE.

A. Katzenstein, Londonier, Antwerp, 17 coils.
Equitable Trust Company, by same, 39 coils.

N. Y. Cordage Company, by same, 47 coils.
International Purchasing Company, Vaarli, Genoa, 41 coils.

Bemis Brothers Bag Company, Siberian Prince, Havre, 101 coils.
Bemis Brothers Bag Company, Bristol City, Bristol, 37 coils.

E. J. Keller Company, Drottingholm, Gothenburg, 187 coils.
E. J. Keller Company, Kinderdijk, Rotterdam, 185 coils.

G. W. Miller & Co., by same, 257 coils.
Chemical National Bank, by same, 84 coils.

International Purchasing Company, by same, 56 coils.
R. Goldstein & Sons, by same, 5 coils.

WOOD PULP.

Corin Brothers, Inc., Drottingholm, Gothenburg, 1,500 bis.

Pennsylvania Export Corporation, President Wilson, Trieste, 1,600 bis.

U. S. Forwarding Company, by same, 9,141 bis.
J. Andersen & Co., Ranenfjord, Kristiania, 750 bis.

NEW ORLEANS IMPORTS

WEEK ENDING JULY 17, 1920.

Castle, Gottheil & Overton, Nesco, Antwerp, 2,089 bis. rags.

PHILADELPHIA IMPORTS

WEEK ENDING JULY 17, 1920.

Castle, Gottheil & Overton, Start Point, London, 126 bis. rags, 43 bis. rope, 290 coils rope, 28 bis. rags.

Castle, Gottheil & Overton, West Gambo, Antwerp, 935 bis. paperstock, 600 bis. rags.
Castle, Gottheil & Overton, Maasdyk, Rotterdam, 167 bis. rags.

BOSTON IMPORTS

WEEK ENDING JULY 17, 1920.

Castle, Gottheil & Overton, West Ileta, Antwerp, 195 bis. rags.

BALTIMORE IMPORTS

WEEK ENDING JULY 17, 1920.

Castle, Gottheil & Overton, Manchester Port, Manchester, 413 bis. waste paper, 279 bis. rags.

To Buy Pulpwood Land

[FROM OUR REGULAR CORRESPONDENT.]

BANGOR, Me., July 23, 1920.—The Allagash Land Company has been organized in Bangor and the certificate of incorporation has been filed with the secretary of state. The capital stock is \$500,000 and the par value of shares, \$100. The company was organized

to take over an option on a tract of about 100,000 acres of the Eaton lands on upper St. John waters held by E. B. Draper, the pulpwood operator. This tract was not included in the recent transfer to the Pasmaquoddy Land Company of Eaton holdings previously reported. E. C. Ryder, of Bangor, is president; Edgar M. Simpson of Bangor, treasurer, and Lewis B. Barrett, of Bangor, clerk.

The Home of Quality

PAPER BAGS

Sacks and Specialties

ESTABLISHED 1901

SCHORSCH & CO.

Manufacturers

500 East 133d Street : New York



FACTORY
132ND TO 133RD ST & BROOK AVE

This Registered
Trade Mark
Octagon



on a Paper
Bag vouches for
its Good Quality

BLEACHED SULPHITE

FOR

Writing, Book and Tissue Papers

PARSONS Pulp & Lumber Co.

EDWIN J. DEWEY, Manager Pulp Sales

Office, 1907-1910 Finance Bldg.,
PHILADELPHIA, PA.

Mills at
PARSONS, WEST VA.

SLITTERS AND REWINDERS

FOR EVERY PURPOSE

MEISEL PRESS MFG. CO.

944 DORCHESTER AVE., BOSTON

19 YEARS' EXPERIENCE

TAGGARTS PAPER COMPANY

MANUFACTURERS OF

ROLL NEWSPRINT H. W. & W. PROCESS.

ENTIRE PRODUCT FOR 1920 CONTRACTED

Mills at Felts Mills, Great Bend and Lefebvre, N. Y.

Main Office,

Sherman Building, WATERTOWN, N. Y.

XXXXXXXXXXXXXXXXXXXX

WIDNEY MODULIMETER

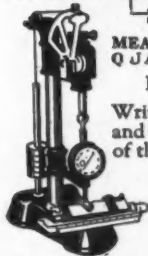
A TEST

PATENTS PENDING

MEASURES EVERY PHYSICAL
QUALITY IN MATERIAL

Paper, Felt, Rubber, Etc.

Write for our booklet—just out—
and the story of the development
of this universal testing device.



WIDNEY

TEST LABORATORIES

Physical Tests and Research

353 S. Jefferson St. Chicago

XXXXXXXXXXXXXXXXXXXX

REXFORD PAPER CO.

WATERPROOF

CASE LINING & WRAPPING PAPERS

Ask For Samples of Our

DIAMOND GRADE FOR PAPER
MAKERS

Stronger—Safer—Cheaper Than Waxed
Papers

Factory and Home Office, Milwaukee

EMERSON MANUFACTURING CO. LAWRENCE MASS.



See the Second-Hand Machinery ads and note the
ABSENCE of

EMERSON BEATING ENGINES

They seldom wear out and are never thrown out.
PERFECT CIRCULATION. NO "PADDLING."

The "EMERSON" JORDAN

does its work with half the power required by others of no
greater capacity.

WRITE FOR DETAILS

Miscellaneous Markets

Office of the PAPER TRADE JOURNAL,
WEDNESDAY, July 21, 1920.

ALUM.—Conditions have changed very little in this market during the past week. At present practically no demand is reported. Prices are reported as: lump, 4@4.50c., ground 4.25@4.62c. and powdered 4.75@5c., f.o.b. New York.

BLANC FIXE.—Very little of this commodity can be gotten on the open market, while a good demand is generally reported. The price per pound for immediate delivery is reported at 5@6c.

BLEACHING POWDER.—A not over-abundant supply of this produce is said to exist, while a good demand continues. For spot supplies the price is 6.50@7c. the pound.

BRIMSTONE.—Very little change exists in this market. Most consumers appear to have sufficient supplies from their contract shipments. The price is around \$18 per ton of 2,240 pounds, at the mines.

CASEIN.—Brisk inquiries for casein are reported, with a supply that seems able to take care of orders only, for practically no spot goods are obtainable. The quotation in carload lots, ex-steamer, is around 15@15.50c. the pound.

CAUSTIC SODA.—A steady demand exists in this market, while the supply is sufficient to take care of all real inquiries. For prompt shipment from the works, prices are \$6 per 100 pounds; for export shipments, f.o.b. \$6.15. For spot supplies the quotation is around \$6.35 per 100 pounds.

CHINA CLAY.—In this country the weather conditions continue conducive for a good production at the mines. The freight congestion, however, prevents easy shipments where clay is needed. Prices are: Domestic, washed, \$12@15 a ton; unwashed, \$9@10 a ton, f. o. b. mines; foreign, \$15@30 a ton, ex-Atlantic seaport.

ROSIN.—Last week's low market brought many purchasers who were desirous of taking advantage of the rock-bottom prices. Hence prices since last week have advanced. No spot rosin is reported in New York, while the shipping situation continues very acute. Quotations last week in carload lots, f.o.b. New York, on the first available steamer space, were: Grade E, \$16.00; grade F, \$16.05; and grade G, \$16.10.

SODA ASH.—This market is fairly active, while the supply is about equal to the calls. Prices are quoted as: \$3 in single bags, and \$3.10@3.15 in barrels, f.o.b. works; spot supplies are \$3.20@3.35.

SATIN WHITE.—A brisk demand continues for this commodity, while the plants seem just about able to keep pace with their contracts. It is said that no spot material is available at all. Prices for contract material are 2.25@2.50c. a pound in carload lots.

STARCH.—A normal demand continues for this product, with a good, but not too mobile, supply on hand. Prices, freight prepaid to New York in carload lots, per 100 pounds are: Pearl starch in bags, \$5.22; in barrels, \$5.69; powdered starch in bags, \$5.37; in barrels, \$5.84, and crystal T. B. starch, No. 90 fluidity, machine packed in bags, \$6.52, in barrels, \$7.03.

SULPHATE OF ALUMINA.—The large demand continues for this commodity, while the supply seems totally inadequate for current needs. Little spot stuff is to be had, and a variety of prices have been gotten on the open market. Prices are: Commercial grade, 2.75@3.50c. f.o.b. works; iron free, 4@6c. per pound, f.o.b. works.

TALC.—Conditions are reported as the same as last week in this field. The inability to get sufficient freight cars is still the main obstacle in the way of this business. The price is \$18@20 a ton, f.o.b. works.

Market Quotations

(Continued from page 63)

No. 1 Soft White	6.50	@	6.75	Cottons—according to grade—	
No. 2 Soft White	4.75	@	5.00	Blue Overall	11.25 @ 12.25
No. 1 Mixed	2.75	@	3.00	New Blue	8.50 @ 9.00
No. 2 Mixed	1.75	@	1.80	New Black Soft	6.75 @ 7.00
Solid Ledger Stock	4.50	@	4.60	New Light Sec-	
Writing Paper	4.00	@	4.25	onds	7.00 @ 7.25
No. 1 Books, heavy	3.60	@	3.75	Khaki Cuttings	7.25 @ 7.75
No. 2 Books, light	2.50	@	2.75	Corduroy	6.50 @ 6.75
No. 1 New Manila	5.75	@	5.85	New Canvas	14 @ 14.50
No. 1 Old Manila	4.00	@	4.25	New Black Mixed	5.25 @ 5.75
Container Manila	2.75	@	3.00	Old	
Old Kraft	5.50	@	5.75	White, No. 1—	
Overissue News	2.50	@	2.75	Repacked	13.00 @ 13.50
Old Newspaper	2.25	@	2.30	Miscellaneous	10.00 @ 10.25
No. 1 Mixed Paper	2.10	@	2.15	White, No. 2—	
Common Paper	1.75	@	2.00	Repacked	7.00 @ 7.50
Straw Board, Chip	2.10	@	2.15	Miscellaneous	6.00 @ 6.50
Binders' Bd. Chip	2.10	@	2.15	Thirds and Blues—	
Domestic Rags—New				Repacked	5.25 @ 5.50
Price to Mill, f. o. b. Phila.				Miscellaneous	4.75 @ 5.00
Shirt Cuttings—				Black stockings	4.87 @ 5.00
New White, No. 1	19	@	19 1/2	Roofing Stock—	
New White, No. 2	12 1/2	@	13	No. 1	3.25 @ 3.50
Silesias, No. 1	12.25	@	12.75	No. 2	3.15 @ 3.40
New unbleached	15.25	@	16.25	No. 3	2.25 @ 2.50
Washables	10.75	@	11.00	No. 4	3.00 @ 3.25
Fancy	12.25	@	13.00	No. 5A	3.00 @ 3.25
				B.	2.75 @ 3.00
				C.	1.50 @ 1.60

BOSTON

[FROM OUR REGULAR CORRESPONDENT]

Paper	Price	Old Papers	Price
Bonds	.21 @ .45	Shavings—	
Ledgers	.21 @ .30	No. 1 Hard White	6.50 @ 7.00
Writings—		No. 1 Soft White	5.00 @ 5.50
Superfine	.28 @ .35	No. 1 Mixed	2 @ 2 1/2
Fine	.19 @ .24	Ledger and Writ-	
Books S. & S. C.	.20 @ .26	ings	4.00 @ 4.50
Book, M. F.	.18 @ —	Solid Books	3.00 @ 4.00
Book, Coated	.22 @ .35	Blanks	3.00 @ 3.25
Label	.21 @ —	No. 2 Books, light	2.00 @ 2.75
News Sheets	.16 @ —	No. 1 Manila	3.00 @ —
News, Rolls	.08 @ .08 1/2	No. 1 Manila	2.00 @ 2.50
Manilas—		Folded News (over-	
No. 1 Manila	.10 @ .12	issues)	2.00 @ 2.50
No. 1 Fibre	.085 @ .09	Old Newspaper	.01 1/2 @ .03
No. 1 Jute	.16 @ .16 1/2	Mixed Paper	1.50 @ 1.60
Kraft Wrapping	.12 @ .13	Gunny Bagging	3.50 @ 4.00
Common Bogus	.06 @ .09	Manila Rope	7.50 @ 7.75
These prices are f. o. b. mill.			
Board prices only at time of shipment.			

TORONTO

[FROM OUR REGULAR CORRESPONDENT.]

Paper	Price	Old Waste Papers	Price
Bond—		(In carload lots, f. o. b. Toronto)	
Sulphite	17 1/2 @ —	Shavings—	
Light tinted	18 1/2 @ —	White Env. Cut	7.50 @ —
Dark tinted	19 1/2 @ —	Soft White Book	— @ —
Ledgers	20 @ —	Shavings	7.50 @ —
Writing	15 @ —	White Blk News	5.50 @ —
News, f. o. b. Mills—		Book and Ledger—	
Rolls (carloads)	5.50 @ —	Flat Magazine and	
Sheets (2 tons or over)	6.00 @ —	Book Stock (old)	4.00 @ —
Sheets (less than 2 tons)	6.15 @ —	Light and Crum-	
Book—		pled Book Stock	3.25 @ —
No. 1 M. F. (car-		Ledgers and Writ-	
loads)	15.50 @ —	ings	3.80 @ —
No. 2 M. F. (car-		Solid Ledgers	3.75 @ —
loads)	15.00 @ —	Manilas—	
No. 3 M. F. (car-		New Manila Cut	5.50 @ —
loads)	14.75 @ —	Printed Manilas	3.00 @ —
No. 1 S. C. (car-		Kraft	5.50 @ —
loads)	16.00 @ —	News and Scrap—	
No. 2 S. C. (car-		Strictly Overissue	2.50 @ —
loads)	15.50 @ —	Folded News	2.25 @ —
No. 1 Coated and		No. 1 Mixed Pa-	
litho.	17.50 @ —	pers	2.10 @ —
No. 2 Coated and		Domestic Rags—	
litho.	16.50 @ —	Price to mills, f. o. b. Toronto.	
No. 3 Coated and		Per lb.	
litho.	15.25 @ —	No. 1 White shirt	
Coated and litho.		cuttings	.20 1/2 @ —
colored	17.50 @ —	No. 2 White shirt	
Wrapping—		cuttings	.13 1/2 @ —
Grey	10.75 @ —	Fancy shirt cut-	
"B" Manila	11.00 @ —	tings	.13 1/2 @ .14
No. 1 Manila	12.50 @ —	No. 1 Old whites	.10 1/2 @ .11
Fibre	12.00 @ —	Thirds and blues	.05 @ .05 1/2
Kraft, M. F. or		Per cwt	
M. G.	12.50 @ —	Black stockings	5.00 @ —
Pulp		Roofing stock	
(F. o. b. Mill)		No. 1	3.00 @ —
Ground Wood	140.00 @ —	Roofing stock	
Sulphite, easy bleach-		No. 2	2.90 @ —
ing	170.00 @ 180.00	Gunny bagging	3.50 @ 3.75
		Manila rope	8.00 @ 8.50

The Mathieson Alkali Works (Inc.)

General Offices

25 West 43rd Street

Works
Niagara Falls, N. Y.

New York City

Works
Saltville, Va.

"EAGLE THISTLE" BRAND OF PRODUCTS

Bleaching Powder

Highest Test Manufactured

Packed in Steel Drums, air tight, insuring full strength at point of consumption.

Special wooden lined drums for export.

Liquid Chlorine

100% pure, anhydrous, in improved 100 lb.—150 lb.—2,000 lb. containers.

Soda Ash

58 per cent, both light and dense shipped in bulk—Bags and Barrels
Special packages for export.

Caustic Soda

Solid—Ground—Flaked

60%—70%—72%—74%—76%—78% Grades.

The electrolytic 78% Grade, analyzing 99.70% Hydrate of Soda, purest caustic made.

Bicarbonate of Soda

Packed in Cases—Bags—Barrels—Kegs

If you have a problem to solve write us and get the advantage of our
Technical Department.

WANT AND FOR SALE ADVERTISEMENTS

HELP WANTED

CLASSIFIED RATES

Minimum rate for advertisements of 25 words or less, first insertion, \$1.00.

SITUATION WANTED, 4 cents a word for first insertion and 2 cents a word for each subsequent insertion of same ad. No ad of less than 25 words accepted.

HELP AND MISCELLANEOUS WANTS, and small For Sale Ads, 4 cents a word for each and every insertion. No ads of less than 25 words accepted.

When answering advertisements, please address the Box Number given in ad.

Answers can be forwarded care Paper Trade Journal, and will be promptly forwarded without extra charge. All should be sent to the New York office, 10 East 39th street. And all should be addressed as the advertisement directs in every case and not simply to the paper.

All classified ads for the current issue must be in hand not later than Monday preceding date of publication.

A LARGE WHOLESALE PAPER HOUSE has a position open for a young man to take charge of the wax paper and specialty department. He must have experience in the buying and selling of wax papers and specialties. He must also have executive ability. This is a splendid opportunity, and all correspondence will be treated in a strictly confidential manner. Address, Box 2381, care Paper Trade Journal. tf

WANTED—Superintendent capable of directing production 50,000 tons Boxboard per annum. All grades of Board. Address, giving full particulars concerning mills previously worked in and positions occupied, Box 2379, care Paper Trade Journal. Ju-22

WANTED—A first class Millwright or Master Mechanic for a two machine Book Mill. Mill well located. In reply, give age and references. Address, Box 2383, care Paper Trade Journal. Ju-22

WANTED—First-class Machine Tender and Back Tender for two tour book mill. Good wages and good living conditions. Address, Box 2398, care Paper Trade Journal. Ju-29

WANTED—First-class Boss Millwright capable of taking charge of repair work for three-machine mill. Must understand doing work from blue prints. Give references when making application. Address, Box 2399, care Paper Trade Journal. Ju-29

WANTED—Cylinder Machine Tender, in Eastern three-tour mill, slow running machine; wages 85 cents an hour. Address, Box 2400, care Paper Trade Journal. A-28

WANTED—First-class Super Calender Man to take charge of stacks running on Glassine Paper. Splendid opportunity for the right man. Must possess initiative and be capable of handling a crew of men. In answering state experience in full and salary expected. Address, Box 2404, care Paper Trade Journal. Ju-29

WANTED—One first class Machine Tender for making News and Coating on 74" Harper Machine. Located in New England, only a few miles from two large cities on main railroad line. Good wages for right man. Address, Box 2415, care Paper Trade Journal. tf

ASSISTANT BUYER of waste paper. Must be familiar with grades and with packers. Reply, giving experience and salary expected, to Box 2418, care Paper Trade Journal. Ju-22

WANTED—Two Machine Tenders to act as foremen on three Rogers' wet machines. Alternate day and night shift. Located in the city. Good wages. American Reduction Co., 1942 Forbes St., Pittsburgh, Pa. tf

HELP WANTED

WANTED—Millwright for waste paper pulping plant with three Rogers' wet machines. Located in the city. Good wages. American Reduction Co., 1942 Forbes St., Pittsburgh, Pa. tf

WANTED IN NEW YORK STATE—Superintendent for 50-ton Sulphite plant equipped with Jensen Acid System, and three 8-ton digesters; a thoroughly practical sulphite man who will be interested in maintenance and neatness as well as production. Apply in confidence, stating experience and salary desired. Address, Box 2433, care Paper Trade Journal. Ju-29

WANTED—Two Cylinder Machine Tenders wanted. Two-tour mill, paying 75c per hour. Address, the Hartje Bros. Paper Co., Toronto, Ohio. Ju-22

WANTED—Superintendent for one-machine rag mill. Must understand handling rags, get production, and be able to handle men. Address, stating salary and reference in first letter, Box 2422, care Paper Trade Journal. Ju-22

EXPERIENCED PAPER TYERS wanted in finishing department of paper mill in Middle West. Permanent position and good wages for steady, reliable men. Address, Box 2423, care Paper Trade Journal. Ju-29

WANTED—A Master Mechanic and several working foremen for operating and construction of Southern pulp mill. Address, Box 2424, care Paper Trade Journal. A-5

WANTED—Head Cutter man to operate six double cutters in book mill. When making reply state what experience you have had, and if at present employed. Give references. Address, Box 2435, care Paper Trade Journal. A-12

WANTED—Cylinder Board Machine Tender, good pay, city job. Also two finishers. Address, Box 2436, care Paper Trade Journal. Ju-22

WANTED—Two Machine Tenders and two Backtenders. Cylinder board machines. Good wages; steady work and no labor trouble. Address, Box 2437, care Paper Trade Journal. Ju-29

WANTED—Man as repair and handy man around screens and wet machines in sulphite department. Mill located in large town of the Middle West. Address, Box 2438, care Paper Trade Journal. A-5

WANTED—Experienced wet machine hand in sulphite department. Mill located in large town in Middle West. Address, Box 2439, care Paper Trade Journal. A-5

WANTED—Millwright for small tissue mill. Correspondence desired. Address, Box 2440, care Paper Trade Journal. Ju-29

WANTED—Three capable Machine Tenders able to run a board machine of about 100-inch on chip, news board, Manila lined boards etc. Wages 85c per hour. Also three backtenders on same machine. Wages 70c per hour. Machine in fine condition. Just starting up after extensive repairs. Good town to live in. Live company to work for. Address, Box 2441, care Paper Trade Journal. A-5

WANTED—Two first-class Backtenders on fast running catalogue. Union agreement and wage scale; good town and working conditions. If you can't deliver the goods, don't apply. Address, Box 2442, care Paper Trade Journal. Ju-29

WANTED—Two Backtenders. Two tours. 55c per hour. Apply Keystone Paper Mills Co., Upper Darby, Pa. Ju-29

WANTED—An experienced man for Efficiency Department of a board and pulp mill. Address, Box 2425, care Paper Trade Journal. A-5

HELP WANTED

WANTED—Experienced Machine Tenders and Back Tenders for cylinder machine making container board. Address, Box 2426, care Paper Trade Journal. A-5

WANTED—Two experienced machine tenders on board machine. Steady work. Address, Box 2452, care Paper Trade Journal. Ju-29

WANTED—First Class Super Calender Men. New York State Mill. State experience. Box 2453, care Paper Trade Journal. Ju-29

WANTED—Man experienced in the manufacture of Waxed Paper, to take complete charge of Waxed Paper factory. Good position. All replies treated confidentially. Address, Box 2454, care Paper Trade Journal. A-12

WANTED—Superintendent for two-machine mill making Mill Blanks, located in Massachusetts. Attractive salary and fine opportunity for capable, ambitious young man under forty. Address, Box 2455, care Paper Trade Journal. tf

SITUATIONS WANTED

BEATER ENGINEER wishing to make a change wants position as Boss Beater Engineer or Tour Boss. Have had 14 years' experience board, bond and ledger. Capable of handling help. Address, Box 2428, care Paper Trade Journal. Ju-29

POSITION WANTED—Man with 15 years' experience in the bag making business, possessing executive ability, thoroughly familiar with all up-to-date bag making equipment and capable of taking charge of the making and printing of bags; also the building and repairing of bag making machinery. Would like to hear from manufacturer or parties contemplating entering the bag business. Address, Box 2427, care Paper Trade Journal. Ju-29

WANTED—Position as cutterman and to have full charge of finishing room in small mill making wrapping paper. Can give reference. Address, Box 2445, care Paper Trade Journal. Ju-22

EXPERIENCED MACHINE TENDER wants position. Tissue, book, writing, bond, ledger. Straight or Edwards. Fourdrinier machine. Best of references. Address, Box 2444, care Paper Trade Journal. A-5

WANTED—A situation by first-class, steady machine tender. Every kind of paper. Good references furnished if desired. Address, Box 2446, care Paper Trade Journal. A-5

POSITION WANTED as Superintendent. Have had 27 years' experience on book, board, news and fibre. Last mill I had charge of, I increased the production double and put the mill in good running condition. Can give the best references. Address, Box 2446, care Paper Trade Journal. A-26

SUPERINTENDENT on board, desires to make change. Thoroughly understand news, chip, ice cream, milk cap boards. Can get production. References, past and present employers. Address, Box 2447, care Paper Trade Journal. A-5

PAPER SALESMAN—20 years' traveling experience in United States, Sweden and Germany, speaking four languages, wants connection with large U. S. paper house. Willing to go abroad as manager of foreign branch. Address, Box 2448, care Paper Trade Journal. Ju-22

WANTED—Position as Master Mechanic or assistant. 18 years' experience. Good references furnished. Correspondence solicited. Address, Box 2405, care Paper Trade Journal. Ju-5

SITUATIONS WANTED

POSITION WANTED—With mill making Board, Felt or Specialties. Sixteen years in Manufacturing, Mechanical and Executive ends. Give details of position offered. Address, Box 2394, care Paper Trade Journal.

Ju-22

WANTED—Young man of thirty-two, possessing sales ability and practical paper mill experience, looking for sales opportunity in export field; am free to go anywhere. Address Box 2367, care Paper Trade Journal.

tf

WANTED—Salesman at present engaged in sale of book and specialties looking for desirable connection Eastern or Western Mill similar grades. Salary not of first importance if some future can be assured. Address, Box 2368, care Paper Trade Journal.

tf

POSITION WANTED—Assistant Superintendent or Boss Beaterman by practical all around paper maker and A No. 1 colorman. Experienced on Book, Ledger, Colors and Tissues. Day job preferred. State salary in first letter. Address, Box 2406, care Paper Trade Journal.

Ju-22

SUPERINTENDENT—Practical man on Cylinder machine making High Test Containers, Patent Coated, Manillas, Wall Board and Suit Box. Can get production. Address, Box 2407, care Paper Trade Journal.

Ju-22

FOR SALE

FOR SALE—Two Downingtown Duplex Beaters, Miller patent. In good operating condition. Have to be sold on account of changes in plant. Price reasonable. Pyntree Paper Co., Gordon, Ga.

A-5

FOR SALE—Two Cylinder Washers, Octagon style, one 42 in. across flats, 46 1-2 in. face; other 42 in. across flats, 50 1-2 in. face. Both new, never used. Can ship immediately. Address, J. & W. Jolly, Inc., Holyoke, Mass.

Ju-29

FOR SALE—A No. 2 and No. 3 Potdevin square and flat bag machine. Practically new. Also a 63-inch Diets Toilet Paper Slitter. Can be bought cheap. Address, Box 2449, care Paper Trade Journal.

Ju-22

FOR SALE—One Moore & White two-Drum Slitter and Rewinder. 66 inches wide, in good condition. Address, Box 2450, care Paper Trade Journal.

Ju-29

FOR SALE—One (1) 24" x 42" McIntosh Seymour extra heavy duty horizontal engine; good as new, and valves in perfect condition. Engine has bushed cylinder. Shaft is designed and key seated for adding low pressure side and heavy enough to carry armature for running direct connected. Engine is designed for 125 R. P. M. and 150 pounds pressure. Drive wheel has eleven (11) 2" rope grooves. Engine can be seen running and quick delivery made.

Hoppes Feed Water Heater, steam separator and steam piping.

Fulleys from 4" to 14" face and 4" to 92" diameter.

Shafting and couplings from 1-15/16" to 3". R. O. Post and Drop Hangers and Pillow Blocks.

Rope Sheaves for 1", 1 1/4", and 2" rope, and tension carriages for same.

8" and 12" Scandinavian Belting, also all sizes leather belting.

All of the above good as new. Walters Milling Company, 30th and Master Streets, Philadelphia, Pa.

tf

MISCELLANEOUS

PAPER MILL REPRESENTATIVE, 30 years in the paper line, who succeeded in securing sole agency of well known Swedish and German paper mills, wants Christian partner with \$50,000 capital. First class bank references. Address, Box 2434, care Paper Trade Journal.

Ju-22

WANTED—Rotary Cutters with slitter attachment 82" to 96" knives, either single or duplex. Hercules Paper Corporation, 135 Broadway, New York.

J-29

RESULTS

The value of an advertisement is never judged by its size—it is measured by RESULTS.

Whatever the size of advertisement you use to interest prospects in your offer, you are sure to obtain satisfactory results if you use the classified pages of The Paper Trade Journal.

Results speak for themselves.

If you have some paper mill machinery you want to dispose of, that can be done with the least trouble and greatest profit to you.

If you have need for any skilled workmen in your mill, you can appeal to the best in their class through the Paper Trade Journal.

It will pay you to investigate.

Rates for regular classified advertisements will be found at the top of page 68.

Special rates for display ads on request.

THE PAPER TRADE JOURNAL

10 East 39th Street, New York City

What Every Paper Maker Should Know

1. Do you wish to know how the joy of work can be stimulated and industrial efficiency enhanced through creative workmanship—all with reference to the operations of a Pulp and Paper Mill? Then read "The Creative Workman," by Robert B. Wolf. Price 25 cents, postpaid.

2. Are you interested to know the native American woods that are suitable for paper pulp manufacture? A pamphlet telling all about the character and yields of pulp that may be expected from different woods may be obtained by ordering "American Woods for Pulp and Paper." Price 25 cents, postpaid.

3. Every mill superintendent, engineer or chemist should possess a copy of "Technical Association Papers, Series II." It is a cyclopedia of mill and laboratory theory and practice. In addition to a complete descriptive list of books and periodicals pertaining to pulp and paper manufacture, there are articles on Analytical Methods; American Papermaking Clays; Making Cellulose from Cotton Linters; History of the Sulphite Process; Soda Mill Problems; Tearing Tests for Paper; Testing Methods for Sulphite Acid; Discussions of Heat, Light and Power Problems; Handling of Woodroom Refuse; Principles of Accounting and Control of Industrial Power Plant Costs; Mill Lighting Systems; Sizing Up Men for Positions; Important Factors in Grinding Wood for Pulp, etc. Price \$2 postpaid. Send cash with order to T. A. P. P. I. Publishing Corporation, Room 1102, 18 East Forty-first Street, New York. Ju-Au-Sep

PAPER MACHINERY

in First Class Operative Condition for IMMEDIATE DELIVERY

One Fourdrinier Part made by Sandy Hill, which takes wire 75" x 50", complete with drive, delivery October 1.

One Winestock Defibering Machine, consisting of tank, pulper and 60 H.P. turbine. One Proctor Binders Board Dryer, 3 1/2 tons.

One 40" Norwood Sheet Calender, 5 rolls 2-14", 1-12", 2-14" cotton, equipped with Harlow feed.

One 80" Wet Cutter and Layboy, Rice, Barton & Fales.

One 112" Smoothing Press, Home, 1-22" rubber covered and 1-20" gun metal.

One 108" Slitter and Rewinder, Kidder.

One 82" Slitter and Rewinder, Langston.

Two Old Paper Shredders, Valley Iron Works.

One Fulmer Saveall, 112".

One North Saveall.

Two Improved Machine Co. Pneumatic Savealls.

One Kollergang, Fussy & Jones.

Two Deckers, Black & Clawson.

Three Auxiliary Screens, Moore & White, two-plate.

Three Wandel Screens, two-cylinder.

Two Wandel Screens, one-cylinder.

One 24" Pope Brushing Engine.

One 72" Rogers Wet Machine, single press.

One No. 6 Nash Pump.

One 60" Finlay Cutter.

One No. 10 Reeves Drive.

One 7'x21' Loring Rotary.

FRANK H. DAVIS COMPANY,

175 Richdale Ave. Cambridge 40, Mass.

Results Speak for Themselves

The following paragraph is an extract from a letter written by a prominent Engineer who has used the classified columns of *The Paper Trade Journal* to dispose of a Cylinder Paper Machine:

"You may be interested to know that I received answers from England and others from Connecticut to California and South as far as Virginia and Arkansas, and can testify to the value of your journal as an advertising medium."

Sixteen replies were obtained from a twenty-five-word advertisement inserted four times in *The Paper Trade Journal* and costing four dollars. The replies came from all parts of the United States and Europe, proving the buying appeal of *The Paper Trade Journal*.

We could fill an entire issue of this paper with testimonials we have received from satisfied advertisers, but we prefer to let results speak for themselves.

F. L. SMITHE MACHINE CO.

MANUFACTURERS OF

Envelope Machines

and special paper handling machinery designing, pattern making, machine work.

150 ELEVENTH AVE., NEW YORK

Pulp and Paper Manufacturers Requiring More Capital

for improvements, expansion, etc., are invited to communicate in strict confidence with New York interests. Address, "Special," Box 14, 1358 Broadway, New York City.

cow 4t

Paper Stock

FOUR GOOD REASONS FOR BUYING STOCK HERE

We handle 40 different grades. Capacity, 300,000 pounds daily. A clean product. Established since 1885. Write, phone or wire.

MENDELSON BROS. PAPER STOCK CO.

General Offices: 900 So. Michigan Ave., Chicago, Ill. Long Distance Phones, Harrison 5557 and 2240

STRATFORD PAPER CO.

JERSEY CITY, N. J.

Mr. Peter J. Schweitzer, 100 Broad St., New York City, Sole Export Agent

MANUFACTURERS OF Fourdrinier Tissues, White and Colored, G. B. Silver, Manifold, Celluloid and Specialties

At the top of the column on page 68 will be found full information covering the classified section of THE PAPER TRADE JOURNAL.

Our readers and advertisers are requested to observe these rules.

When replying to advertisers please give the address the advertisement directs.

If the advertisement is keyed with a box number, be sure to give the correct box number and send it in care of THE PAPER TRADE JOURNAL.

Observance of these rules will facilitate our forwarding replies to the proper sources with the least possible delay.

FOR SALE

- BEATERS**—One 61"x48", five Jones, one Downingtown, two Horne, one 60"x60", several 72"x44", two Claflin Refining Engines.
- BED PLATES**—Circled to diameter of roll.
- CALENDERS**—One 7 roll stack 72" face, two 9 roll stacks 72" face, one 9 roll 63" face, one 9 roll 84" face.
- COATERS**—Two 56" Waldron coaters.
- CUTTERS**—Two 45" Finlay cutters newly rebuilt with brand new Hamblet expansion pulley drive, 38" Sanborn cutter, 35" guillotine cutter.
- CYLINDER MOULDS**—One 30"x54", one 30"x64", both rebuilt, ready for quick shipment. One new 30"x52".
- DRIVES**—One Reeves No. 4, Class E, one Reeves No. 9, Class E, one Moore & White No. 10.
- DRYERS**—4 36"x54", 8 36"x62", 7 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 56" trim, 23" dryers. One 72" Harper four-drummer.
- PULLEYS**—One 97" dia., 34" face, double arm, modern pulley. One set cone pulleys, 40"x31"x83" 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 stock pumps, single and double.
- PRESS ROLLS**—Large number of different sizes on hand. Some suitable for rubber covering.
- ROTARIES**—One 14' Globe, one 34"x22" horizontal in good condition, ready for immediate shipment.

**MILLS MACHINE COMPANY
LAWRENCE, MASS.**

FOR SALE

- One (1)—76" Downingtown Duplex Cutter, new, with twelve pairs back stands.
 - One (1)—86" Beloit Duplex Cutter.
 - One (1)—96" Beloit Duplex Cutter. Both first class condition.
- The Shartle Brothers Machine Co.,
Middletown, Ohio. tf

Architects and Engineers

- CAREY, JAMES L.**, Paper Mill Architect and Engineer, 208 North Laramie avenue, Chicago, Ill.
 - CHAPMAN, C. A., Inc.**, Paper Mill Architects and Engineers, 28 Jackson Boulevard E., Chicago, Ill.
 - SNOW, S. M.**, Mill Architect, Engineer, Paper and Pulp Mills. Steam and Water Power plants. 55 Kilby street, Boston, Mass.
- Rags, Paper Stock, Etc.**
- BERLOWITZ, PAUL**, 132 Nassau street, New York. Importer of Rags, Bagging, New Cuttings.
 - CHASE & NORTON**, High Grade Shavings and Book Stock a specialty. 277 Water street, New York.
 - FLYNN, MICHAEL**, 54 Columbia street, Brooklyn, N. Y.

GOLDSTEIN, R. & SON, 1162 Scott Street, Baltimore, Md., Cotton Rags and Paper Stock.

JACOB & CO., Alexander, Wraying, London, England. Supply all classes Waste Papers and Shavings, Paper Making, Rags, etc. Correspondence solicited. Paris Office, 3 Cite d'Hauteville.

HILLS, GEO. F., 326 South Street, Branch House, 276 W. 25th street, N.Y.C.

LIVERPOOL MARINE STORE CO., Liverpool, England. L. M. S. Wood Tag, Manila, Rope and Star Brands (Registered).

ROSENBAUM, INC., L., Lafayette street, New York City. Packers exclusively of new cuttings.

SIMMONS, JOHN, SONS, Paper and Paper Stock. 28 and 20 South Marshall street, Philadelphia, Pa.

MISCELLANEOUS

Bale Ties

WILSON, H. P. & H. F., Manufacturers of Steel Wire Bale Ties, for baling all compressible material. 544 West 22nd street, New York City.

Boards

MILLER PAPER CO., FRANK P., high grade specialties. Boards. East Downingtown, Pa.

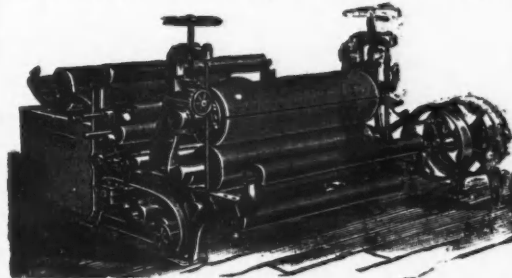
Special Machinery

SWIFT, GEORGE W., JR., Designer and Manufacturer of Special Machinery for Manufacturing and Printing Paper Goods. Bordentown, N. J.

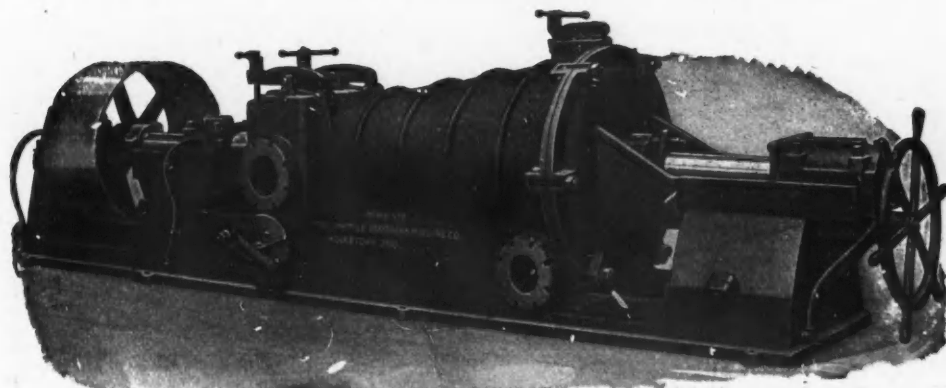
H. C. CLARK & SON MACHINE CO.

Manufacturers of **PAPER MILL MACHINERY**
LEE, MASS.

Revolving Paper Cutters Rag Cutters Cylinder Paper Machines Washing and Beating Engines



- Chilled Iron and Paper Calenders
- Fan and Stuff Pumps
- Engine Roll Bars and Bed Plates
- Cylinder Molds
- Marshall Drives
- Slitters and Rewinders
- Reels
- Dryers with Improved Packing Boxes
- Wet Machines
- Gun Metal and Rubber Rolls
- Rolls Reground



The
**Shartle Bros.
Machine Co.**
Middletown
Ohio

BOARD WILL NOT DROP FOR YEARS

We can sell you a 15 Ton Box Board Mill in
New England today and at the right price.

GIBBS-BROWER COMPANY, No. 261 Broadway, New York City

Paper and Pulp Mill Brokers

OUR MOTTO—"Service First"

TELEPHONE BARCLAY 8020

WRAPPING PAPER MILL FOR SALE IN NEW YORK STATE

Centrally located $\frac{1}{4}$ mile from Railroad. Trolley line to Mill. Good water power and clear water the year round. Four water wheels. Two 650-lb. Beaters and one Monarch Jordan Engine. Two 48-inch Cylinder Paper Machines. Dwelling homes, sheds, wagons, all supplies both real and personal, and everything connected with the business goes with the mill. Mill running today. For sale only because owner wishes to retire from active business. An excellent opportunity.

GIBBS-BROWER COMPANY

Paper and Pulp Mill Brokers

No. 261 Broadway, New York City

Telephone—Barclay 8020

OUR MOTTO—"Service First"

102" Trim Paper Machine For Sale

Through connections in Germany, we can offer complete paper machine for immediate delivery. 250 centimeters wide, trimming 102". Wire 50' long. Three presses, 8 dryers, 2 felt dryers, calenders, reels and rewind. Cone drive. Made by Golsern Machine Works. 17 ton production. Price approximately \$50,000 erected in your mill here, including supervision services of expert German mill engineer both in Germany and this country. EXCEPTIONAL OPPORTUNITY.

GIBBS-BROWER COMPANY

Paper and Pulp Mill Brokers

No. 261 Broadway, New York City

Telephone—Barclay 8020

OUR MOTTO—"Service First."

ANOTHER GOOD ONE

Tissue Mill in East for sale. Centrally located on Railroad Siding. Six fine beaters. Two refining engines. Three rotary boilers. Two 100" Cylinder Machines. Mill in perfect conditions and running to capacity, producing some twelve tons in 24 hours.

GIBBS-BROWER COMPANY

Paper and Pulp Mill Brokers

No. 261 Broadway, New York City

Telephone—Barclay 8020

OUR MOTTO—"Service First"

Straw, Leather, Binders, and Trunk Board Mill for Sale

Production—8 to 10 tons in 24 hours. 30 acres of land; 15 tenements and one modern dwelling; two large stone mill buildings, 4 stories each; office building and storehouse; barns, Post Office building. Electric lights. Two 48 in. trim Noble and Wood wet machine; two N. & W. pony Jordans; two F. F. and M. W. stacks calenders; one 1000-lb. and one 800-lb. N. & W. Beaters; Clark truck and Buckingham plate drying system; complete machine shop; horses, wagons, etc. On private road $\frac{1}{4}$ mile from railroad. Investigate this New England Mill. Price \$100,000.

GIBBS-BROWER COMPANY

Paper and Pulp Mill Brokers

No. 261 Broadway, New York City

Telephone—Barclay 8020

OUR MOTTO—"Service First"

FIBRE BOARD MILL FOR SALE IN NEW ENGLAND

Brick building 40 acres of land; six tenements; mill 50 yards from railroad; 200 H.P. water power, also steam; three Beating, one Refining Engines, Washers and Rotary Boiler; two Noble and Wood 50-inch wet machines. Production approximately 5 to 6 tons in 24 hours. Good proposition, price reasonable.

GIBBS-BROWER COMPANY

Paper and Pulp Mill Brokers

No. 261 Broadway, New York City

Telephone—Barclay 8020

OUR MOTTO—"Service First."

FOR SALE

Quaker Hill Paper Mill, Quaker Hill, Conn. On concrete State Highway, $\frac{1}{2}$ mile from Vermont Central and Thames River. 3 miles from New London. 150 H. P. now and possible to develop 500 H. P. water power. 150 H. P. Rotary Boiler; two 700 lb. Beaters; two-cylinder machine, 54-inch trim. Seven dryers, 7 Rod Calender stack. Product—Heavy and Light Manila and Extra Red and Brown Bogus, 5 to 6 tons 24 hours. Adaptable to tissue at small cost. Price \$25,000. Investigate.

GIBBS-BROWER COMPANY

Paper and Pulp Mill Brokers

No. 261 Broadway New York City

Telephone—Barclay 8020

OUR MOTTO—"Service First"

FREDERICK L. SMITH

21 EAST 40TH STREET, NEW YORK
**PULP AND PAPER MILL
 ENGINEER**

HARDY S. FERGUSON CONSULTING ENGINEERS

Member AM. SOC. C. E., Member AM. SOC. M. E.,
 Member Eng. Inst. Can.
 200 FIFTH AVENUE, NEW YORK CITY
 Paper, Pulp and Fibre Mills, Including Building and Complete
 Mechanical Equipment, Water Power Development, Dams,
 Storage Reservoirs and Other Hydraulic Structures
 Examinations, Reports, Estimates of Cost, Designs,
 Specifications, Valuations

GEORGE F. HARDY

M. AM. SOC. C. E., M. AM. SOC. M. E., M. ENG. INST. CAN.
Mill Architect and Consulting Engineer
 Langdon Building, 309 Broadway, New York
 SPECIALTY: Paper, Pulp and Fibre Mills, Water Power Develop-
 ments, Steam Power Plants, Plans and Specifications,
 Evaluations, Reports, Consultation
 Cable Address: "Hardistock." A B C 5th Edition, Bedford McNeill.
 Western Union—Bentley's

**J.H. WALLACE
 & COMPANY.**
 TEMPLE COURT BUILDING
 NEW YORK CITY, U.S.A.
 CABLES, TRIPLEX, N.Y.



**ENGINEERS
 & CHEMISTS**
 INDUSTRIAL DESIGN
 PLANT IMPROVEMENT
 LABORATORY TESTS

JOHN F. CARRIGAN ENGINEERING

Consulting and Sales Engineering
POWER IS OUR SPECIALTY
 Estimates, Reports, Detail Plans of Power Plants.
 CARRIGAN STOKERS for any BOILER, 50 to 300 H. P.
 AUTOMATIC HOT WELLS specially designed for PAPER MILLS.
 504 CUNARD BLDG., CHICAGO, ILL.

**Timber Lands Bought and Sold.
 Timber and Pulp Wood Estimates.**

R. R. BRADLEY,
Consulting Forester

58 Telegraph Building, Hospital St., Montreal, P. Q.

TRADE MARK
CAMACHINE
SLITTERS AND WINDERS
 CAMERON MACHINE CO. BROOKLYN, N.Y.

THOMAS L. TOMLINES & SON
CONSULTING ENGINEERS

ASSOC. M. AM. SOC. C. E.; 317-319 CITY BANK BLDG.,
 M. AM. SOC. M. E. SYRACUSE, N. Y.
 Paper, Pulp and Fibre Mills, Hy- Steam Power Plants, Plans and
 draulic Developments, Hydro- Specifications, Efficiency Engi-
 Electric Plants neering
CONSULTATION AND REPORTS

H. B. PRATHER

CONSULTING ENGINEER
CONSULTATIONS REPORTS ESTIMATES
 Complete Designs Pulp and Paper Mills—Steam and Electric
 Power Plants—Equipments
 600 ROCKEFELLER BLDG., CLEVELAND, OHIO

WILLIAM T. FIELD

Consulting Engineer
 Watertown, N. Y.

DESIGNS ESTIMATES REPORTS

VITALE & ROTHERY
FOREST ENGINEERS

527 Fifth Avenue New York, N. Y.

LARGEST CRUISING HOUSE IN AMERICA

offers crews of experienced woodsmen to give practical information to timberland owners and operators. Ask for sample Growth and Operating Plans.

JAMES W. SEWALL, Old Town, Maine

Your card in this space will put you in touch with the kind of people you want to reach.

**MANHATTAN
 PERFORATED METAL CO.**

Office and Works: 237-239 Centre St.,
 New York

PERFORATORS

of COPPER, BRASS, ZINC, ALUMINUM,
 TIN, STEEL, IRON, Etc.

Write for Copper, Brass, Tin or
 Aluminum Catalog.
 Brass and Copper Centrifugal and
 Juice Strainer Plates a Specialty

FORMERLY
 FOREST EXPERT
 U. S. DEPT. AGRICULTURE

TIMBER EXPERT FOR
 THE STATE OF
 PENNSYLVANIA
 STATE FORESTER OF
 NEW JERSEY

Established 1892


F. R. MEIER
CONSULTING FORESTER
 — AND —
TIMBER LAND FACTOR
 NO. 166 BROADWAY, NEW YORK

TIMBER ESTIMATES

WE ARE IN A POSITION TO BUY OR SELL TIMBER LANDS

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

**COLORS FOR
 PAPERMAKERS**
KUTTROFF, PICKHARDT & CO.
 INCORPORATED
 128 Duane Street - - New York
 BOSTON - 86 Federal St. PHILA. - 111 Arch St.
 PROV. - 52 Exchange Pl. CHL., 305 W. Randolph St.



SPEED CONTROL



The absence of Speed Control on your Paper Machinery means leakage in profits.

The Reeves **VARIABLE SPEED TRANSMISSION**
 STOPS THIS LEAKAGE
REEVES PULLEY CO. COLUMBUS, IND.





TRADE MARK



**Slitters
 and
 Rewinders**

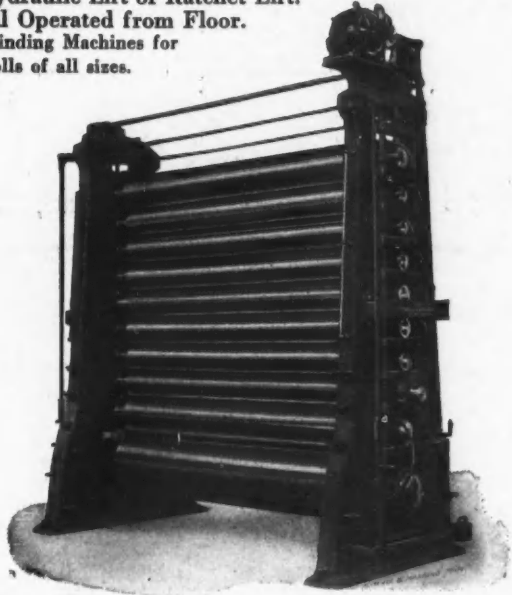
Write for the LANGSTON Catalog illustrating and describing the most complete line of Paper Slitting and Rewinding machinery ever produced by one manufacturer. We build these machines in all widths to efficiently handle all weights and thicknesses of paper and all sizes of rolls.

We also build special machinery for the manufacture of corrugated paper shipping cases. These catalogs will be sent on application direct to us.

Samuel M. Langston Company
 Camden, N. J.

CALENDERS

Furnished Complete, with Electric Motor Lift,
Hydraulic Lift or Ratchet Lift.
All Operated from Floor.
Grinding Machines for
Rolls of all sizes.



LOBDELL CAR WHEEL CO.
Wilmington, Del., U. S. A.

The Grasselli Chemical Co.

Dyestuffs Department
117 Hudson Street New York

**ANILINE COLORS
FOR
PAPER MAKERS**

Branches:
Boston Providence Toronto Philadelphia Montreal Chicago
Charlotte

Sole Selling Agents for
ESSEX ANILINE WORKS, INC., Boston, Mass.

Guaranteed Flat Gummed Paper



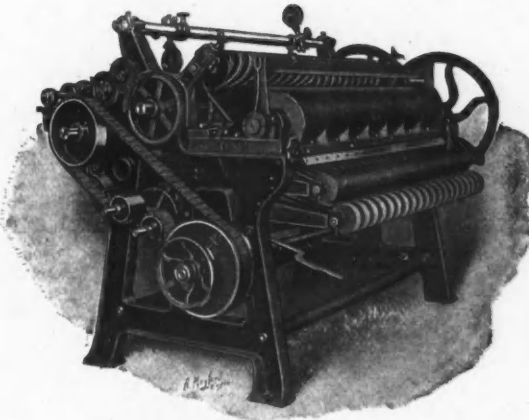
The Leader for Seventy-five Years

IDEAL COATED PAPER CO.

Mills and Main Office, BROOKFIELD, MASS.
NEW YORK CHICAGO CINCINNATI

Paper Cutters

Single, Duplex and Diagonal



Cutter Knives Patent Top Slitters

HAMBLET MACHINE CO.

Lawrence, Mass.



EVERYTHING IN


PULP & PAPER

J.F. PATTON CO., INC.

33 West 42nd St.
New York City

(Cable address - Pulp, N.Y.)



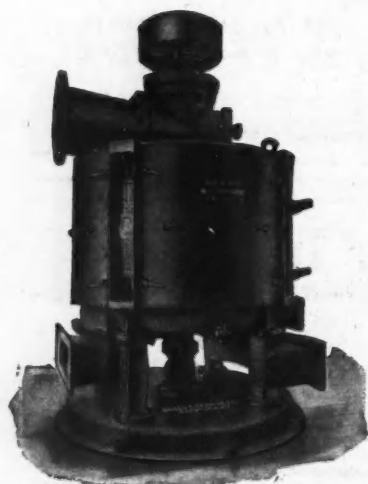
ESTABLISHED 1851
 IRA L. BEEBE CYRUS E. JONES
IRA L. BEEBE & CO.
 132 Nassau St., New York
 IMPORTERS AND DEALERS IN

WOOD PULP

WILLIAM B. DILLON
DILLON & BARNES
Paper Mill Products and Supplies
 52 VANDERBILT AVENUE NEW YORK
 Telephone, 7353 Murray Hill

Penn Paper and Stock Company
*Packers of All Grades of
 Waste Paper*
 206 N. DELAWARE AVENUE
 PHILADELPHIA

FRANKLIN PAPER CO. HOLY OKE,
 MASS.
 Manufacturers of
 Index Bristols, White Bristol Blanks, Etc.

Salomon Bros. & Co.
 IMPORTERS OF
All Grades of Rag and Paper Stock
 200 FIFTH AVENUE, NEW YORK
 Cotton Waste : Linters : Ramie



The Centrifugal Screen

THIS illustration is of The Centrifugal Screen of which we are the sole manufacturers. This screen is still the peer of all machines constructed for screening either sulphite, sulphate, soda or ground wood pulp. It does more work and better work with the use of less power than any other screen being built today. The fact that we are now receiving orders from parties who purchased this screen as many as fifteen to seventeen years ago, is ample proof, we think, of the fact that it has stood the test of time.

BAKER MANUFACTURING CORPORATION
 Formerly BAKER & SHEVLIN CO. Saratoga Springs, N.Y.
 Sole Manufacturers

RIORDON SALES COMPANY, Limited
 367 BEAVER HALL SQUARE
 MONTREAL, QUE.

Hawkesbury, Merritton and Kipawa
 Bleached and Unbleached Sulphite Fibre, Sulphite Screenings, Spruce, Pine and Hardwood Lumber, Cedar Shingles

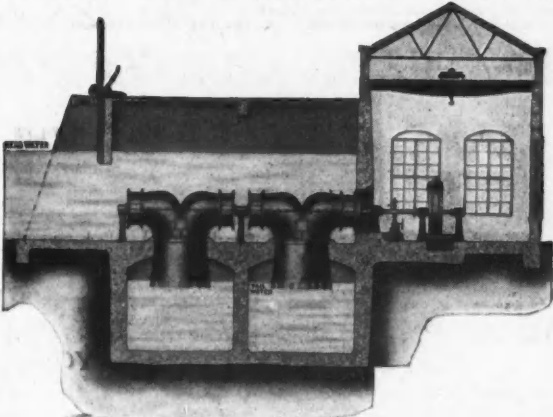
We call Particular Attention to the Excellent Quality of KIPAWA Moist, Unbleached Sulphite.

Leffel Turbine Water Wheels

VERTICAL AND HORIZONTAL DESIGNS

Direct Connected, Driving Generators, Pulp Grinders, Milling Machines, Pumps, Etc.

HIGH EFFICIENCY UNITS



WRITE FOR BULLETIN 54

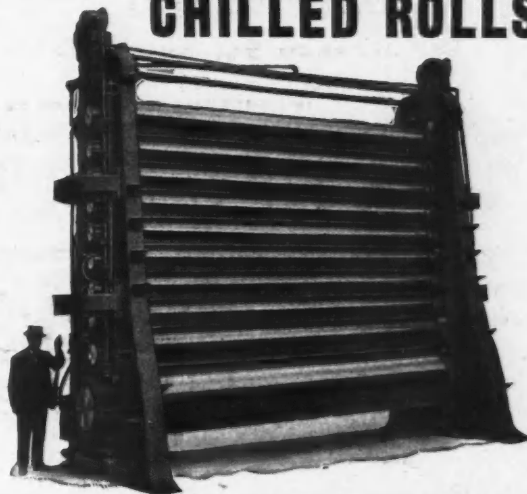
THE JAMES LEFFEL & CO.
 SPRINGFIELD, OHIO, U. S. A.

Boston Office:
 Room 618, Compton Building, 161 Devonshire St., Boston, Mass.
 H. H. White.....1503 Fourth Nat'l Bank Bldg., Atlanta, Ga.
 Wm. Hamilton Co., Ltd.....Peterborough, Ont., Canada
 B. F. Groff.....556 Woolworth Bldg., Lancaster, Pa.

Farrel Foundry & Machine Co.

ANSONIA, CONN., U. S. A. Largest Manufacturers in the World of

CHILLED ROLLS



CALENDERS

with Patent Hydraulic Lift

ROLL GRINDING MACHINES



Time Tells
 the Story

Acid Proof Wood Pipe

Paper mills throughout the country have found that the merciless test of time and use have proven the superiority of WYCKOFF ACID PROOF WOOD PIPE.

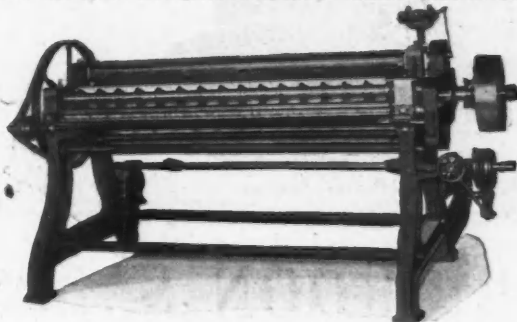
With its enduring asphalt insulation, its steel bands that bind the wood into one impervious whole—small wonder that WYCKOFF Pipe has become a "buy-word" in the paper and pulp field.

Ask us for details and references from those who are profiting by the use of WYCKOFF.

A. WYCKOFF & SON CO.
 Elmira, N. Y., U. S. A.

The "Dietz" Toilet Paper Machines

For making Toilet Paper Rolls with or without perforations



Self-Adjusting—Easy to Operate
 WE ALSO MANUFACTURE

AUTOMATIC TUBE MACHINES

FOR MAKING TUBES FOR TOILET PAPER ROLLS
 CAPABLE OF PRODUCING 3,600 WIRE STITCHED
 TUBES PER HOUR

Also machines for making Sanitary Crepe Paper Towels, Slitting and Rewinding Machines, Drop Roll Slitters, Side and Center Seam Merchandise Envelope Machines, Photo Mount Beveling Machines, Candy Bag Machines, Punch Presses for Playing Cards, Rotary Card Cutting and Collating Machines, Etc. CORRESPONDENCE SOLICITED.

DIETZ MACHINE WORKS

126-128 Fountain St., Philadelphia, Pa.
 Corner Waterloo St., Below Diamond St., Bet. Front and 2nd Sts.

SUPERIOR CHEMICAL CO.

JOLIET, ILLINOIS

Manufacturers

PAPER MAKERS' and FILTER

ALUM**ALUM**

FOR THE PAPER MAKER

Manufactured by

The Jarecki Chemical Co.

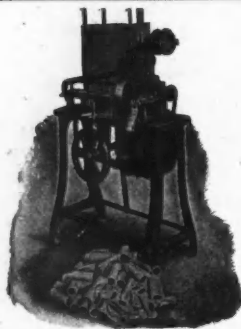
QUALITY

SERVICE

Sole Selling Agents

ISAAC WINKLER & BRO.

CINCINNATI :: :: NEW YORK

**GRISSINGER**

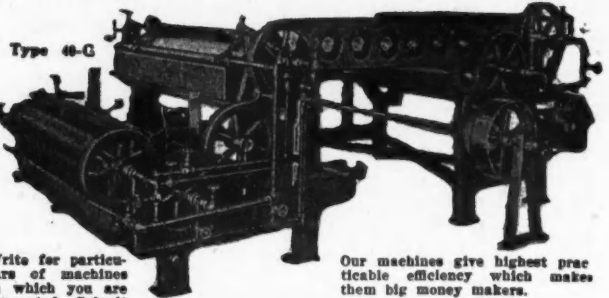
Patented

**AUTOMATIC
TUBE
MACHINE**

Wire Stitched Tube

TOILET PAPER
MACHINERY**GRISSINGER MACHINE WORKS**
PHILADELPHIA, PA.Patented { June 24, 1913.
August 10, 1915.**PAPER COATING MACHINES**

for making Carbon, Waxed, Oiled, Glued, Gummed, Asphalt and Veneered Papers. Allied lines to order.



Write for particulars of machines in which you are interested. Submit your problems to our Engineering Department B.

Our machines give highest practicable efficiency which makes them big money makers.

MAYER COATING MACHINES CO., Inc.
206-213 St. Paul Street, Rochester, N. Y., U. S. A.

Write today for complete information.

**WALL BOARD CUTTER**

Cuts to length all kinds of heavy Sheet Stock, Fiber and Wall Board. Gives Uniform Sheet Lengths. Clean Cut Edges. No Buckling of Web.

M. D. KNOWLTON CO., 22 Elizabeth St., Rochester, N. Y. U. S. A.**ATTERBURY BROS.**

(INCORPORATED)

WOOD PULP, RAGS AND PAPER
STOCK, FRENCH CASEINE

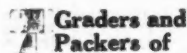
145 NASSAU STREET (POTTER BLDG) NEW YORK

PAUL C. ZÜHLKE

320 BROADWAY

EXPORT

NEW YORK, N. Y.

**Federal Paper
Stock Co. St. Louis, Mo.**Graders and
Packers of**Rags and
Waste Paper****"TYLER"****Fourdrinier Wires**

In all widths up to 250 inches

CYLINDER FACES

WASHER WIRES

In Brass, Bronze and Phosphor Bronze

The W. S. Tyler Company
Cleveland, Ohio

WE specialize in durable Fourdrinier Wires and Cylinder Wires in any metal desired up to and including 120 mesh in plain woven, double warp, triple chain, and twisted weaves.

Save two-thirds the cost and three-quarters of the expense of putting on brass and bronze wires by using our nickel alloy wires.

Joseph O'Neill Wire Works

Southport, Connecticut
Established 1906

**NORTHERN BRAND
BLEACHING POWDER
CAUSTIC SODA**

MICHIGAN ELECTROCHEMICAL COMPANY
OFFICE AND WORKS—MENOMINEE, MICHIGAN

Fitchburg, Mass.,
U. S. A.

UNION SCREEN PLATE COMPANY

Lennoxville, P. O.,
Canada



UNION BRONZE SCREEN PLATES **ROLLED BRASS**
(Best phosphorized Cast Metal) (Union Quality)

Old Plates RECLOSED and RE-cut to accurate gauge.

UNION BRONZE SCREWS for Screen Plates

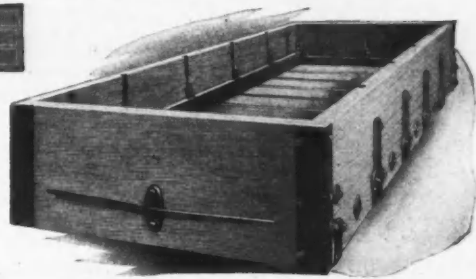
UNION BRONZE SUCTION BOX PLATES

Immediate Delivery of the Largest Orders. Satisfaction Guaranteed.

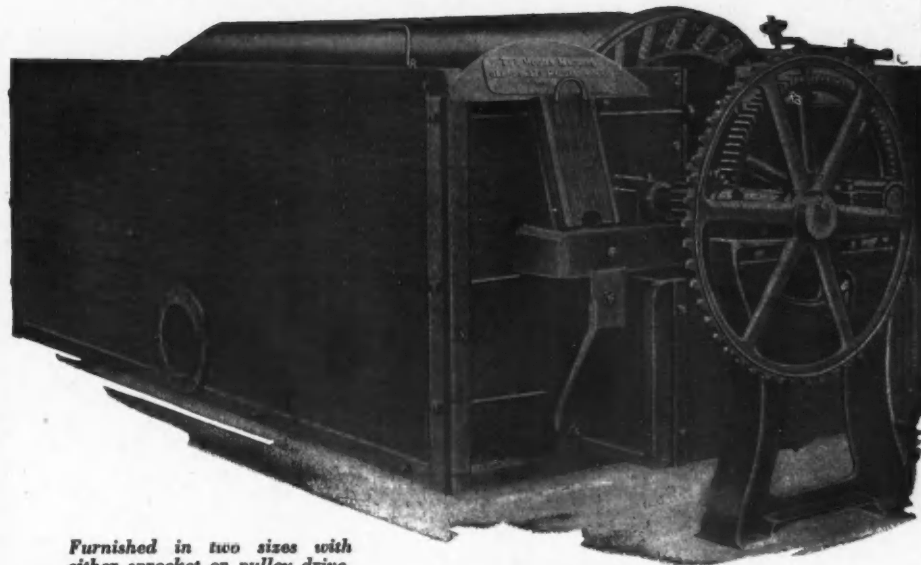
THE UNION-WITHAM SCREEN PLATE VAT AND FASTENERS

THE ORIGINAL
Over One Thousand in Successful Operation

THE BEST
Recommended by Screen Makers



THE WOOD'S MACHINE



Furnished in two sizes with either sprocket or pulley drive.

Reduces wire cost
Works automatically
No couch roll
No Doctor
Used as
Pulp Thickeners
Save-Alls
Pulp Washers
Water Filters

Guaranteed High Grade Construction—Built for Service.

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

Try our Split Cams for your Flat Screens.

Does your sheet contain wet streaks? Paper made over our suction rolls is uniformly dried because the atmosphere, unlike most top rolls, exerts a uniform pressure.

The Sandusky Foundry & Machine Company

SANDUSKY OHIO

For reliable running and average long life

Lindsay Fourdrinier Wires

ARE UNSURPASSED

We make them for the largest and fastest machines.
Cylinder Wires all sizes.

The Lindsay Wire Weaving Co.
COLLINWOOD STA. CLEVELAND, OHIO

Fly Bars and Bed Plates

Beater Valves and Hydrants

Dayton Beater & Hoist Co.
Dayton, Ohio

Builders of all
types of

Paper Making Machines

and machinery for

**Paper & Pulp
Mills**



Successful
machines in
operation
are proof
that our
work is built
right.

View showing front entrance to the factory of

The Black-Clawson Co.

HAMILTON, OHIO

A cordial invitation is extended to pay us a visit and a letter will always bring a response.

Job Lots, Rejections, Side Rolls Wanted

SPOT CASH paid for jobs in bond paper, white or colors, any grade that will cut down to 11 x 17, any weight. Send samples, with lowest spot cash prices. No lot too small, and none too large.

MIDWEST PAPER CO., 712 Federal Street, Chicago, Ill.



Special Shaped Carbon, Black Diamond POINTS FOR TURNING Paper, Cotton, Chilled Iron and Hardened Steel Calender Rolls, Hard Rubber, Fibre, etc.

Manufactured by **THOS. L. DICKINSON**, 64 NASSAU STREET NEW YORK
 Successor to John Dickinson, Established 1796.
 Agents for Great Britain, C. W. BURTON, GRIFFITHS & CO., Ludgate Square, London.

POTDEVIN MACHINE CO.

ESTABLISHED 1893

1221 38th Street, Brooklyn, N. Y.

MANUFACTURERS OF

IMPROVED MACHINERY FOR MAKING
 SELF OPENING BAGS SATCHEL BOTTOM BAGS
 FLAT AND SQUARE BAGS (All Lined or Unlined)
 PAPER BAG BUNDLING PRESSES

WAX PAPER

CORRUGATED PAPER ENVELOPES

Scallop Strips for Candy Boxes

For COLD or HOT GLUES
 GUMMING MACHINES

ALEXANDER JACOB & CO.

WAPPING, LONDON, ENGLAND

Packers of All Classes of English and Continental Paper Stock.

Waste Paper, Shavings, New and Old Canvas, Rags, Ropes and Strings, Gunny, Tares

Established 1875

Paris Office, 8 Cite Hauteville

FOREIGN and DOMESTIC

Paper Stock
 New Cuttings
 and Rags

Jute Stock
 Sizing, Sulphite
 and Soda Pulps

200 FIFTH AVE. NEW YORK

CASTLE, GOTTHEIL & OVERTON

VERA ROSIN SIZE

Guaranteed to Be Absolutely Clean and Pure
SHIPPED IN BARRELS and TANK CARS

OUR VERA PAPER SIZE

is the purest, strongest and highest free rosin size made. We can furnish you with an ideal rosin size and patented apparatus to use same.

OUR VERA MILL SIZE

is the best soluble paper makers' rosin size made. Ready to use in cold or warm water in the ordinary way without apparatus. Gives better satisfaction and is more economical than mill made size.

OUR VERA BEATER SIZE

Especially prepared to be dumped direct from the barrels into the beater, without first dissolving it.

VERA CHEMICAL COMPANY

North Milwaukee, Wis. Stonham, Mass.
 Burlington, Ont., Canada

**"DRAPER"
 FELTS**

For Any Grade of Paper or Pulp

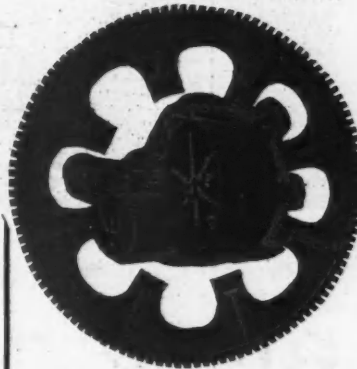
ARE GUARANTEED

To Give Entire Satisfaction

MANUFACTURED BY

DRAPER BROS. CO., CANTON, MASS.

**Power-Transmitting
 Machinery**



We cast and finish Sheaves (with English or American grooves), Pulleys, Band Wheels, Fly Wheels, Gears, Sprocket Wheels, &c.

We design and manufacture complete rope drives. Our machine-molded sheaves are perfect in balance, accurately finished

and free from flaws injurious to the rope. Rope drives designed by us are successful. Write us.

H. W. Caldwell & Son Co.

Chicago, Western Ave., 17th-18th St.

New York, Hudson Terminal, 50 Church St.

Dallas, Texas, 711 Main St.

CLASSIFIED INDEX TO ADVERTISEMENTS

ADDING MACHINE ROLLS.	Page	FILTER PLATERS AND SCREENS	Page	PAPER STOCK (Continued).	Page
Paper Manufacturers' Co.	83	(Perforated Metal).		Mendelson Bros. Paper Stock Co.	70
AGALITE.		Hendrick Mfg. Co.	60	Penn Paper & Stock Co.	76
Union Talc Co.	83	Manhattan Perforated Metal Co.	73	A. Salomon, Inc.	83
U. S. Talc Co.	83	FIRE BRICK.		Salomon Bros. & Co.	76
ALUM.		Jointless Firebrick Co.	60	Train-Smith Co.	Front Cover
Pennsylvania Salt Mfg. Co.	84	FOURDRINER WIRES.		John M. Watson & Son.	60
Superior Chemical Co.	78	Appleton Wire Works	84	PAPER TESTERS.	
Winkler Bros., Inc.	78	Buchanan & Bolt Wire Co.	8	Manning, Maxwell & Moore Co.	56
ARCHITECTS AND ENGINEERS.		Cable Excelsior Wire Mfg. Co.	84	B. F. Perkins & Son, Inc.	11
John F. Carrigan	73	Cheney, Bigelow Wire Works	56	PAPER TUBE MACHINERY	
Hardy S. Ferguson	73	Eastwood Wire Mfg. Co.	84	Dietz Machine Works	77
William F. Field	73	Thomas E. Gleason	6	PERFORATED METAL.	
George F. Hardy	73	Lindsay Wire Works	60	Harrington & King Perforating Co.	55
F. R. Meier	73	Jos. O'Neill Wire Works	79	PULP DISTRIBUTORS	
H. B. Prather	73	The W. S. Tyler Company	78	Fracter & Gamble Distributing Co.	61
F. L. Smith	73	GUMMED PAPERS.		PULP MANUFACTURERS.	
Thomas L. Tomlins & Son	73	Ideal Coated Paper Co.	75	Fred Enders & Co.	52
Vitale & Rothery	73	Nashua Gummed & Coated Paper Co.	—	PULP PROCESS.	
Joseph H. Wallace & Co.	73	HEATING & PLUMBING EQUIPMENT.		Castle, Gotthel & Overton	7
ASBESTINE PULP.		Crane Co.	41	PULP STONES.	
International Pulp Co.	Front Cover	KNIVES, ETC.		Lombard & Co.	83
BELTING.		Bolton & Sons, J. W.	9	PUMPS.	
Goodyear Tire & Rubber Co.	—	Dowd Knife Works	—	Frederick Iron & Steel Co.	—
Rosendale-Reddaway Co.	53	PACKING.		Hayton Pump & Blower Co.	55
Voorhees Rubber Mfg. Co.	57	Jenkins Bros.	31	RAG CUTTERS.	
BEATING ENGINES.		Goodrich Co., B. F.	29	Taylor, Stiles & Co.	—
Clafin Engineering Co.	—	PAINTS AND VARNISHES.		ROSIN SIZE.	
Dayton Beater & Hoist Co.	60	Du Pont de Nemours Co., E. I.	51	Arabol Mfg. Co.	83
Dillon Machine Co.	13	PAPER BAGS.		Vera Chemical Co.	81
Ditts Machine Works, Inc.	7	Schorch & Co.	65	ROTARY BLEACHING BOILERS.	
Emerson Mfg. Co.	65	A. M. Simon & Co.	59	Biggs Boiler Works	61
Noble & Wood Machine Co.	54	PAPER BAG MACHINERY.		RUBBER SPLICINGS.	
BELT LACING.		Potdevin Machine Co.	81	Sergeant & Co., E. M.	3
Flexible Steel Lacing Co.	—	PAPER BAGS & BOXES.		SCREENS.	
BLEACHING POWDER.		Shuttleworth-Keiller Co.	21	Central Mfg. Co.	60
Mathieson Alkali Works	67	PAPER CORES.		Wm. A. Hardy & Sons Co.	8
Michigan Electro-Chemical Co.	79	Elkman Paper Core Co., Inc.	—	Union Screen Plate Co.	79
BRONZE ROLL JACKETS.		PAPER CUTTERS.		SKYLIGHTS.	
Sandusky Foundry and Machine Co.	60	Hamlet Machine Co.	75	E. Van Noorden & Co.	4
CALENDER ROLLS.		PAPER DEALERS.		SLITTERS AND REWINDERS.	
Farrell Foundry & Machine Co.	77	Auer & Twitchell	61	Cameron Machine Co.	73
Lobdell Car Wheel Co.	75	Dillon & Barnes	76	Samuel M. Langston Co.	74
Textile Finishing Machinery Co.	3	Hano, Philip & Co.	60	Meisel Fresa Mfg. Co.	65
CARBON TOOLS.		Midwest Paper Co.	81	STARCH	
Thomas L. Dickinson	81	State Pulp & Paper Co., Inc.	4	Corn Products Refining Co.	9
CASEIN.		PAPER EXPORTERS.		STITCHING MACHINERY.	
Aldgate Casein Works	10	A. M. Caen's Sons, Inc.	84	Saranac Machine Co.	54
CHAIN BLOCK.		Hudson Trading Co.	2	SULPHITE PULP ("Kraft" Soda).	
Yale & Towne Mfg. Co.	57	Interstate Pulp & Paper Co.	31	Dryden Pulp & Paper Co., Ltd.	—
CHAINS.		Maurice O'Meara Co.	5	SULPHITE BLEACHED AND UNBLEACHED.	
The Jeffrey Mfg. Co.	—	Parsons Trading Co.	Front Cover	I. Andersen & Co.	6 and 23
CHEMICALS, COLORS, ETC.		Parsons & Whittemore.	3	Brown Company	5
Calco Chemical Co.	7	Storm & Bull	Front Cover	Craig-Becker Co., Inc.	39
Dicks-David Co.	7	Fred C. Struve	31	Parsons Pulp & Lumber Co.	65
Graselli Chemical Co.	75	Paul C. Zulke	78	Pulp & Paper Trading Co.	4
Heller & Metz Co.	12	PAPER MILL AGENTS.		Riordan Sales Co., Ltd.	76
Kuttruff, Pickhardt & Co.	74	Hart Trading Co., Inc.	11	SULPHUR.	
National Aniline & Chemical Company, Inc.	25	Hill Company, Berton C.	53	Union Sulphur Co.	74
Newport Chemical Works	25	LaBoiteaux Co., C. L.	61	TANKS.	
C. K. Williams & Co.	84	McIver, Dana T.	2	New England Tank & Tower Co.	83
CLAY.		Rapp Co., Arthur R.	—	Stearns Lumber Co.	83
John W. Higman Co.	—	Royal Card & Paper Co.	—	TEMPERATURE CONTROLLING REGULATORS.	
A. M. Meincke	12	Sabin-Robbins Paper Co.	—	G. S. Witham, Sr.	—
Miner-Edgar Co.	58	PAPER AND PULP MACHINERY.		TESTING LABORATORIES.	
Star Clay Company	84	Appleton Machine Co.	83	Widney Test Laboratories	65
COATING MACHINERY.		Baker Mfg. Corp.	76	TIMBER ESTIMATES.	
Mayer Coating Machine Co.	78	Hird Machine Co.	27	R. R. Bradley	73
COGS.		Black-Clawson Co.	60	James W. Sewall	73
O. L. Bartlett	11	H. C. Clark & Son	71	TOILET PAPER AND TOWELS.	
N. F. Bowsher Co.	83	Frank H. Davis	71	Foley Paper Co.	39
CORDAGE.		Glens Falls Machine Works	79	H. Norwood-Ewing Co.	71
Columbian Rope Co.	—	Improved Paper Machinery Co.	25	Northern Paper Mills	45
CUTTING MACHINERY.		Norwood Engineering Company	6	TRANSMISSION MACHINERY	
M. D. Knowlton Co.	78	Thomas H. Savery, Jr.	10	H. W. Caldwell & Sons Co.	81
DIE CUTTERS.		Shartle Bros. Machine Co.	71	Reeves Pulley Co.	74
Hoggson & Pettis Mfg. Co.	—	Smith & Winchester Mfg. Co.	13	TURBINES.	
White Tar Aniline Corp.	—	Technical Products Co.	57	James Leffel & Co.	77
DRIVES (MOTOR).		Waterville Iron Works	2	TWINES.	
Westinghouse Electric & Mfg. Co.	47	PAPER MANUFACTURERS.		American Manufacturing Co.	35
DRIVES, SILENT CHAIN.		American Coating Mills	59	VEGETABLE PARCHMENT PAPERS.	
Morse Chain Co.	83	Bayless Mfg. Co.	6	Kalamazoo Vegetable Parchment Co.	31
DRYING SYSTEMS.		Brown Co.	5	WATERPROOF PAPERS.	
W. F. Pickles	8	Collins Mfr. Co.	10	National Waterproofing Co.	Front Cover
DYE STUFFS		Diamond State Fibre Co.	Front Cover	Rexford Paper Co.	65
E. I. du Pont de Nemours & Co.	—	Eastern Mfg. Co.	56	WOOD DISHES.	
ELECTRIC HOISTS.		Faton-Dikeman Co.	—	Oral Wood Dish Co.	—
Shepard Electric Crane & Hoist Co.	59	Flower City Tissue Mills	3	WOOD PIPES.	
ENVELOPE MACHINES.		Franklin Paper Co.	76	A. Wyckoff & Sons Co.	77
F. L. Smith Machine Co.	70	Hammermill Paper Co.	35	WOOD PULP IMPORTERS	
EVAPORATORS.		Howard Paper Co.	37	American Wood Pulp Corp.	56
Swenson Evaporator Co.	4	Missisquoi Pulp & Paper Co.	3	J. Andersen & Co.	6 and 23
Technical Products Co.	55	Seaman Paper Co.	Front Cover	Ira L. Beebe Co.	76
Wheeler Condenser & Engineering Co.	2	Stratford Paper Co.	70	M. Gottesman & Co.	33
FELTS AND JACKETS.		Taggart Paper Co.	65	Lagerloef Trading Co.	14 and Front Cover
Appleton Woolen Mills	6	Wassau Sulphite Fibre Co.	—	New York Overseas Co., Inc.	9 and Front Cover
F. Bredt & Co.	Front Cover	PAPER AND PULP MILL BROKERS.		Nilsen, Rantoul & Co.	39
Draper Bros. Co.	81	Gibbs-Brower Co.	72	A. T. Pangel & Co., Inc.	19
Fitchburg Duck Mills	2	PAPER STOCK.		J. F. Patton & Co., Inc.	75
F. C. Huyck & Sons	37	Atterbury Brothers	78	Price & Pierce, Ltd.	Front Cover
Knock Woolen Co.	8	E. Butterworth & Co.	43	Scandinavian-American Trading Co.	12
Orr Felt & Blanket Co.	8	Castle, Gotthel & Overton	81		
Schuler-Benninghofen	84	Federal Paper Stock Co.	78		
Waterbury Felt Co.	6	Gumbinsky Brothers	84		
Waterbury & Sons Co.	43	Francis Hughes	59		
		Alexander Jacob & Co.	81		
		E. J. Keller & Co.	4		



Dry Rosin Size



Brittle and easily soluble. Cheapest size out. Cheaper than mill made size. Also our hot and cold water sizes; standard quality. Cleaner, more uniform and economical than either mill made sizes or those offered by our competitors. Also Arabol Paper Size, Splicing Gums, Condensed Paste Powder, Paper Makers' Starches.

Arabol Manufacturing Co.
100 William Street : NEW YORK

ENGINEERS PLANNING POWER TRANSMISSIONS

Secure Data and Estimates of "MORSE" DRIVES

SAVE Construction, Space, Light, Fuel. Producing More with Less

MORSE CHAIN CO. - ITHACA, N. Y.

Engineering Service, Assistance, Bulletins
 Baltimore Chicago Kansas City Pittsburgh Montreal
 Boston Cleveland New York San Francisco Minneapolis
 Charlotte, N. C. Detroit Philadelphia Atlanta St. Louis



Don't Guess at Important Matters
BOWSHER'S SPEED or MOTION INDICATOR
 IS INDISPENSABLE

In obtaining a UNIFORM speed of machinery, and in 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. Bowsheer Co., South Bend, Ind.

UNION TALC COMPANY

Finest Grades of Agalite

132 Nassau Street New York

PULP STONES

of absolutely the finest quality

LOMBARD & CO.

Importers and Dealers

236-238 A Street : BOSTON, MASS.

Branch at Montreal, Canada

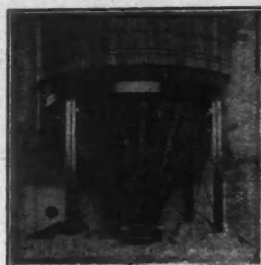
A. SALOMON, Inc.

15 PARK ROW NEW YORK

Consult us if you are looking
 for Foreign Rags.

PAPER MAKERS' SUPPLIES

NEW ENGLAND TANK & TOWER CO.



WOOD TANKS
 FOR ALL
 PURPOSES

Everett Station, Boston, Mass.

Manufacturers
 of
 All Special
 Small Roll
 Products



Adding
 Machine,
 Cash Register,
 Die Wiping,
 Hand Rolls,
 Etc., Etc.

PAPER MANUFACTURERS CO., Inc., Phila., Pa.

AGALITE FILLER

UNITED STATES TALC CO.

GOUVERNEUR : NEW YORK

Why Waste Good Stock?

When You Can Save It at a Small Expense by Using Our

SCREENING GRINDER "SUCCESS"

Will successfully reclaim and grind sulphite and ground wood screenings into a marketable pulp, which can be sold at a profit.

WRITE FOR INFORMATION

APPLETON MACHINE CO., Appleton, Wis.

STEARNS TANKS

BLOW-PIPES, STORAGE
 TANKS, ACID TOWERS, ETC.,
 OF WOOD.

HEAVY PAPER MILL WORK
 IS OUR SPECIALTY.

70 YEARS EXPERIENCE.

Enquire for quotations
 Have you our catalogue?

THE A. T. STEARNS LUMBER COMPANY
 125 Taylor St., Neponset, Boston, Mass.



EASTWOOD
WIRE MFG CO.
FOURDRINIER WIRES
BELLEVILLE, NEW JERSEY, U.S.A.

EXPORT ONLY All Grades of
PAPER and BOARDS
A. M. Capen's Sons, Inc.
Established 1878
60 Pearl Street, New York City

THE WM. CABLE
EXCELSIOR WIRE MFG. CO.



Established 1849
Incorporated 1870-1896

Manufacturers of
Superior Fourdrinier
Wires
Brass, Copper and
Iron Wire Cloth of
Every Description.
Best Quality of
Wire Rope



Write for Price List

74-80 Ainslie St.

BROOKLYN, N. Y.

The Longest Runs

are always made with the "Hamilton Feit"—absolutely the best results are obtained from its use. No wrinkling, no slack edges, "no blowing"—runs equally well on fast or slow machines.

Send us a trial order now, with particulars as to stock used, quality of paper made and speed of machine.

**SHULER &
BENNINGHOFEN**
Hamilton, Ohio



**NATRONA POROUS
ALUM**

MANUFACTURED BY
PENNSYLVANIA SALT MFG. COMPANY
PHILADELPHIA.

C. K. WILLIAMS & CO., EASTON PA.



Proprietors of the Penna. Dry Paint and Color Works and the Helios Dry Color, Chemical and Copperas Works of Allentown, Pa.

Manufacturers, Miners and Importers of Coloring Materials, such as Venetian Reds, Red, Brown, Black, Yellow, Oxides, Chrome and other Colors, also Paper Fillers—As Agalites, Mineral Pulp, Talc, China and other Clays.

**COLORS FOR PAPER
MANUFACTURERS' USE**

Facts About Gumbinsky Bros. Co.

*Largest dealers in paper stock and rags
in the world*

CHICAGO, ILL.

Occupy more than six acres of a sprinkled floor space, equipped with six electric freight elevators, twenty-two large electric power presses, private switch tracks and platforms for forty cars at one time; over 300 employees grading and packing Rags and Waste Paper; best service on any grade, any quantity and at any time.

GET IN TOUCH WITH US



**FOURDRINIER
CYLINDER
WASHER**

WIRES

50 years' experience as wire makers
insures highest quality of product

**"Appleton Wires
Are Good Wires"**

Appleton Wire Works

Appleton, Wis.