

MILL NEWS—(Continued)

time, have resumed operation with a full force, having sufficient orders on hand to keep them busy for some time.

East Stroudsburg, Pa. It is reported that A. W. Kistler, who operates the Pocono Hosiery Mill here, is erecting an addition to his plant.

Easton, Pa. The Gold-Wiley Hosiery Co. will erect a dyeing and finishing plant here, and a portion of the building will be equipped with knitting machines, which will be operated in conjunction with their plant at Tatamy.

Easton, Pa. The machines are being installed in the newly erected mill of the Easton Knitting Mills, manufacturers of hosiery.

Harrisburg, Pa. The Harrisburg Silk Co. will increase the production of its ribbon mill, by the erection of an addition to their plant.

Northampton, Pa. The J. H. Meyer Silk Mfg. Co. has been incorporated with a capital of \$100,000; they are erecting a new mill at Seventh and Main Sts.

Oakbrook, Pa. The new mill of the Oakbrook Hosiery Co. is completed, and the equipment, which consists of 50 of the latest improved machines for the manufacture of 800-needle women's hose, is in operation.

Portage, Pa. The new silk mill which represents an investment of \$20,000, will be two stories high, 50 by 125 ft., and will be in operation about February 15th.

Reading, Pa. The Reading Towel Co. have started the manufacture of Turkish towels at 717 Penn street with an equipment of ten looms. The concern is a new one and consists of James R. Geibel, Frank S. Kelly and Samuel Keller.

Reading, Pa. S. S. Miller, manufacturer of men's cotton hose, will increase the equipment of his plant by the installation of additional machines, which are expected to be in operation by the first of the year.

Reading, Pa. The Perfect Shape Textile Co. has been incorporated with a capital of \$250,000 by S. S. Miller, W. H. Ermentrout and D. Ruth, all identified with the knit goods industry in this section.

Red Lion, Pa. The Lion Knitting Mills, which will be operated by George Stewart and others, are expected to be running by the middle of December, giving employment to about forty operatives. It is their intention to manufacture hosiery and knit goods.

Stroudsburg, Pa. The plant of the Stroudsburg Ribbon Co. is expected to be in operation in a few days. The equipment consists of 25 looms with the necessary warping, winding and quilling equipment, together with a dyeing and finishing department.

Tatamy, Pa. The Gold-Wiley Hosiery Company, Inc., expects to begin building operations on a plant early in the spring to dye and finish goods and add some new knitting machinery in Easton. This company has capital stock of \$70,000. Miller R. Wiley is president and buyer; David Balp, treas. and Harry Carter, supt.



Starch

Eagle Finishing

Starch is especially

made for penetration of

warp yarn. Dissolves

easily in size kettle, makes

smooth paste and is strong.

Does not lose strength but

holds up in kettle and size box.

Penetrates and dries easily,

gives smooth yarn, separates

and draws in quickly, less

breakage and increased pro-

duction on loom.



If you want to know what we can do for your mill in better results and increased production write

CORN PRODUCTS REFINING CO.
NEW YORK

Starch

AMERICAN DYEWOOD Co.

TARTRACHROME COLORS

AND

ALIZARINE COLORS

DYEING ON

CHROME MORDANT

ASK FOR SHADE CARD 134P.

NEW YORK
BOSTON

PHILADELPHIA
HAMILTON, ONT.

THE TEXTILE-FINISHING MACHINERY COMPANY

Providence, Rhode Island, U. S. A.

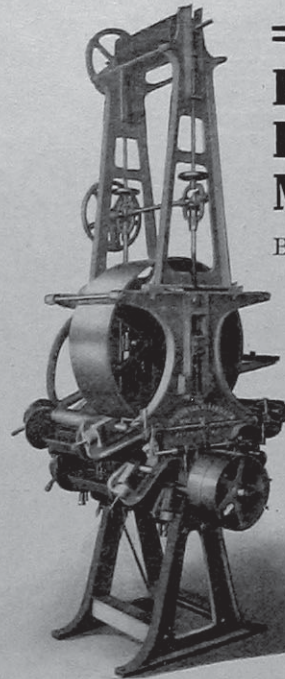
Complete Plants of
BLEACHING, DYEING, DRYING, PRINTING AND
FINISHING MACHINERY

For all Kinds of
TEXTILE GOODS AND YARNS

MAKERS FOR
CLOTH, YARN AND KNIT GOODS

MERCERIZING MACHINERY FOR
YARNS and PIECE GOODS

Estimates Furnished for Complete Outfits



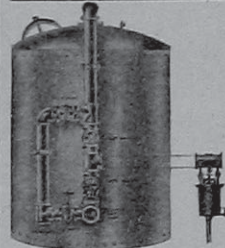
== ON OUR == RIBBON PRINTING MACHINE

Blanket Cylinder and
Top Roller are
adjusted together,
thus keeping the
blanket uniformly
tight and saving
time in making
changes.
An up-
to-date
machine
and a mar-
vel of con-
venience.

THE JOHNSON VAN VLAANDEREN
MACHINE CO.

== PATERSON, N. J. ==

FILTERS and WATER SOFTENERS



Hungerford Filters having
an aggregate capacity of
over fifty million gallons
per day are now in opera-
tion in the textile mills of
America : : : : :

Estimates and plans for proposed
installations submitted
without cost

HUNGERFORD & TERRY, Inc.

PENNA. BLDG., PHILADELPHIA, PA.

AMOS H. HALL SON & CO.,

ESTABLISHED 1868.

Cedar and Cypress
Vats and Tanks.

For Bleaching,
Dyeing, Finishing.

Tanks for all purposes.



2915-2933 N. Second St., Philadelphia, Pa.

EASILY LEVELING COLORS

CASSELLA COLOR COMPANY

BOSTON

PROVIDENCE

PHILADELPHIA

ATLANTA

MONTREAL

For Ladies' Dress Goods FASHIONABLE SHADES

Fast to Washing and Light

182-184 Front Street, - NEW YORK

Upland, Pa. It is reported that E. C. Matlack & Co., of Philadelphia, will operate the old Crozer Mill No. 1, which has been idle for almost 20 years. It is their intention to manufacture cotton fabrics for upholstering carriages and automobiles.

Waynesboro, Pa. A large knitting mill will be erected here as soon as arrangements can be completed.

Weatherly, Pa. Both the Roscoe Broad Silk Mill and The Read and Lovatt Mfg. Co. are operating their plants to full capacity; the latter has lately inaugurated a day and night schedule.

York, Pa. The final arrangements for the building of the new silk ribbon mill by E. & H. Levy are expected to be completed within a short time, and the work of erection will be started at once, as it is their intention to have the plant in operation by April 1st.

Bayonne, N. J. The plant of John Boyle & Co., manufacturers of cotton duck, was destroyed by fire, the estimated loss being \$20,000.

Hackensack, N. J. It is reported that the plant of Givernaud Bros., which has been idle for some time, has been sold to Schwarzenbach, Huber & Co., who operate a number of silk mills in this vicinity.

Jersey City, N. J. The Reddisole Textile Co. has been incorporated with a capital stock of \$50,000 by T. S. Young, East Orange, N. J., and others, for the manufacture of cotton, cotton seed, cotton mill waste, press cloth, etc.

Lakeview, N. J. The new mill which the Allentown Spinning Co. is erecting here, is rapidly nearing completion. The new mill will represent an investment of

about \$70,000 and will be used for flax spinning.

Passaic, N. J. The Passaic Worsted Spinning Co. has been incorporated with a capital of \$600,000 by Christian Bahnsen of 164 Pennington Ave., and others, who will engage in the manufacture of woolen and worsted yarns.

Paterson. It is reported that Henry Pervilac of the firm of Henry Pervilac & Co., Lyons, France, and a relative of Dr. Ernest Cadgene, with whom he is staying, is interested in the erection of a mill here. It is his intention to remain here for several months until the project is under way. If project materializes, the plant will be operated in conjunction with their plants at Zurich, Vienna, Como, Leeds and other European places.

Paterson. The Weidmann Silk Dyeing Co. have secured a large tract of land near their Hawthorne Works, upon which they will erect the largest plant of its kind in the world.

West Hoboken, N. J. The Standard Embroidery Co. has been incorporated with a capital stock of \$50,000 to engage in the manufacture of laces and embroideries.

Brooklyn, N. Y. The United Silk Water-Proofing Co. has been incorporated with a capital of \$5,000, by Jacob Manne and others, and will engage in the water-proofing of silk and other fabrics.

Brooklyn, N. Y. The National Knitting Mills have been incorporated with a capital of \$25,000, to take over the business conducted under the same name at 86 Meserole street, Brooklyn. The concern, at the present time, has an equipment of 25 machines and em-

ploys about 80 hands. It is reported that there will be no change in the officers or present management.

Carthage, N. Y. It is reported that the Theresa Silk Co., who operate a mill at Theresa, is contemplating the erection of a branch mill here, in order to provide means for taking care of their increased business.

Cohoes, N. Y. The Cohoes Dyeing Co. are planning an addition to their plant, and in order to take care of the increased business have installed additional machinery in the winding department.

Corning, N. Y. The Merrill Silk Co. are doubling the capacity of their plant, by the installation of new machinery.

East Salem, N. Y. The Ashworth Woolen Mills are operating overtime.

Gloversville, N. Y. The Link-Burr Silk Mfg. Co., recently formed, and of which Geo. C. Holmes is manager, has started in the manufacture of automobile scarfs, silk glove linings and dress materials.

Hagaman, N. Y. The Star Knitting Mills, operated by L. E. Harrower, which have been idle for several months, have again started operation.

Ilion, N. Y. The Sterling Mills, manufacturers of men's and boys' worsted and woolen sweater coats, will erect a large addition to their plant, which will enable them to increase their capacity.

Lestershire, N. Y. The Corliss Towel Mills, manufacturers of two-thread crash towels, which have been idle for about six months, will resume operations.

(Continued on page xviii.)

A.W. BUHLMANN, Textile-Engineer.

487 BROADWAY,

(Silk Exchange Building)

NEW-YORK.

Installations of complete SILK Finishing PLANTS for

All-Silk and Half-Silk Fabrics, skein-dyed and piece-dyed, Cotton-backs, Crepe de Chine, Grenadine, Mousseline, Crepe Anglais, and Tulle de soie.

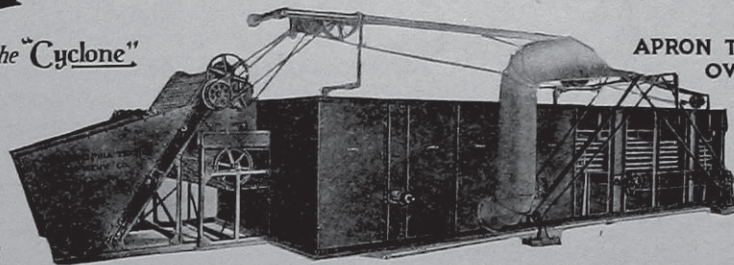
Complete Installations for VELVET, PLUSH and CORDUROY PLANTS

HIGHEST REFERENCES

PROCTOR DRYERS FIRE PROOF BUILT OF METAL

Formerly the "Cyclone"

YARN DRYERS
COTTON STOCK DRYERS
WOOL DRYERS
HOSIERY DRYERS
CLOTH DRYERS
CARBONIZING OUTFITS
YARN SCOURING MACHINES
VENTILATING FANS



Proctor Dryer Panels removed from end

APRON TROUBLES
OVERCOME BY

The INTERLOCKING
CHAIN CONVEYOR

"It needs no adjustment"

THE PHILA. TEXTILE
MACHINERY CO.
HANCOCK and SOMERSET STS.
PHILADELPHIA PA
Address Dept. T

CHEMICAL AND PHYSICAL LABORATORIES OF
Dr. Chas. F. McKenna. HUDSON TERMINAL,
NEW YORK CITY.

Consulting and General Practise in Chemistry,
Technology, Chemical Engineering and
Chemico-Legal Cases.

TREATMENT OF WATER. PROBLEMS OF WASTES.
TESTS OF MATERIALS.

CURTIS & MARBLE MACHINE CO.

MANUFACTURERS OF

WOOL BURRING, PICKING AND MIXING MACHINERY
CLOTH-FINISHING MACHINERY
FOR COTTON, WOOLEN, WORSTED AND FELT GOODS,
PLUSHES, VELVETS, CORDUROY, CARPETS,
RUGS, MATS, ETC.

SINGLE OR DOUBLE WOOLEN SHEARING MACHINES
WITH PLAIN OR LIST-SAVING RESTS.

Successors to

ATLAS FOUNDRY AND MACHINE CO., Irvington, N. J.,
and MILLER PRESS AND MACHINE CO., Woonsocket, R. I.
Also to the Shearing Machine Department of
WOONSOCKET NAPPING MACHINERY CO.

WORCESTER, MASS.

DR. CHAUNCEY G. HELICK
ARCHITECT and ENGINEER

Mill Construction
Reinforced Concrete

413 Walnut Street
PHILADELPHIA

SCHOLLER BROS. CO.

Textile Specialties

SOAPS, SOFTENERS, OILS, ETC.

OFFICE AND WORKS

Amber and Westmoreland Streets
PHILADELPHIA, PA.

Yarn Calculations.

GRADING OF 2-PLY, 3-PLY, ETC., WORSTED YARNS.

Worsted yarn is extensively produced in 2-ply. If such is the case, only one-half the number of yards, as required per pound for a single yarn of that number, are required to balance the pound of the 2-ply yarn.

Examples: Forty's worsted (technically for single 40's worsted) requires 22,400 yards per lb. and 2/80's worsted (technically for 2-ply 80's worsted) requires also 22,400 yards per pound.

2/60's worsted has 16,800 yards per pound corresponding to $(60 \div 2)$ single 30's worsted.

If the yarn be more than 2-ply, divide the number of yards of the minor yarn by the number of ply.

Examples: 3-ply 90's ($3/90$'s) worsted yarn equals in size $(90 \div 3)$ a single 30's thread; or both kinds of yarn require 16,800 yards to balance 1 lb.

4/80's worsted yarn equals a $(80 \div 4)$ single 20's.

SPEED & STEPHENSON

170 Summer Street, BOSTON, MASS.

IMPORTERS OF

Woolen and Worsted Machinery

SOLE AGENTS FOR

JOHN HETHERINGTON & SONS, LTD.

Woolen & Worsted Machinery

including the Duplex Woolen Cards, with Josephy's Tape Condensers which give a greater production and better work than with Condensers of other make.

JOHN DAWSON, LTD.

Wool Washers, Carbonizing and Neutralizing
Machines

ESTABLISHED 1885

John Eppers Machine Works, 629 Filbert St., Phila., Pa.

Manufacturers of

Latest Improved Cop Tube and Cone Machinery

of all kinds and

Upright Knitting Machinery for Millinery

DRESS AND UPHOLSTERY TRIMMINGS

CIBA DYES

CIBA BLUE CIBA BORDEAUX
CIBA VIOLET CIBA SCARLET
CIBA RED CIBA HELIOTROPE

Vat Dyes for Cotton Dyeing and Printing—also for Wool and Silk.

CIBANON YELLOW, BROWN, ORANGE

Vat Dyes for Cotton Dyeing—Fast to Light, Chlorine and Washing.

Made by SOCIETY of CHEMICAL INDUSTRY, BASLE

A. Klipstein & Co., : New York, : American Agents

Weighting of Cotton and Silk Yarns.

COTTON YARN:—Cotton, from a chemical standpoint, is known to be almost entirely of a cellulose nature and characteristic of such inert vegetable substances, which do not possess any great attraction for solutions of any nature, offers little advantage for loading or weighting, compared with the properties of the silk fibre, and for which reason, dyestuffs and metallic salts are more difficult to apply.

In dyeing cotton yarns, by direct colors, there is no appreciative increase in weight, but with the use of a basic dyestuff, in conjunction with a tannin mordant, it has been found that the weight of the yarn was increased from 2 to 4 per cent, according to the quantity of mordant used.

The increase in weight of cotton yarns, when dyed

in a concentrated bath of sulphur colors, may average 5 per cent, but by any method of dyeing cotton yarns, including mordanting, the increase in weight will be very little.

Where it is necessary to increase the weight of the cotton yarn, it has developed, that there are several methods which may be used, and which average 8 to 12 per cent increase in weight. These methods make necessary the use of metallic salts such as Magnesium Sulphate (Epsom's Salts), $MgSO_4$; Zinc Sulphate, $ZnSO_4$; Barium Chloride, $BaCl_2$; Calcium Chloride, $CaCl_2$.

For the purpose of determining the relative increase in weight by the application of metallic salts, tests were made using the following formula as a basis. The proportions were suggested by the *Cassella Color Co.*, and are based on a batch of 100 lbs. of cotton yarn.

To 160 gallons of water, add 80 to 120 lbs. of Magnesium Sulphate (Epsom's Salts), 16 lbs. of Dextrine and 4 lbs. of Glycerine, previously saponified with 1 lb. of soda; the bath brought to a lukewarm temperature and the cotton yarn immersed therein.

(Continued on page xx.)

NEW EDITION JUST ISSUED

THE NUMBER OF

Textile Mills in the U. S. and Canada
 IS FOUND IN THE CONTENTS OF

THE BLUE BOOK

TEXTILE DIRECTORY

Which covers all Mills and features as follows:

- 1910 Cotton Mills
- 1400 Woolen and Worsted Mills
- 190 Carpet Mills
- 1000 Silk Mills
- 1700 Knitting Mills
- 176 Jute, Linen and Flax Mills
- 400 Canadian Mills
- 417 Dyers, Finishers and Bleachers
- 950 Dry Goods Commission Merchants
- 190 Cotton Goods Converters
- 363 Yarn Dealers
- 150 Raw Silk Importers, Dealers, &c.
- 1700 Cotton Dealers
- 900 Wool and Hair Dealers
- 450 Waste Dealers and Manufacturers
- 270 Wholesale Rag Dealers
- 50 Fiber Brokers

Textile Maps of the New England States, Middle Atlantic States, Middle Western States and Southern States, showing all towns in which Mills are located.

List of 500 Railroads on which Textile Mill Towns are located.

Davison Publishing Co.
 407 Broadway, N. Y.

Thumb Index dividing Office Edition into 14 sections, Pocket Edition into 12 Sections.

Index to Mills and Owners. Dry Goods Jobbers in the U. S. Classified Directory of Cotton and Woolen Mills, showing under each heading all mills making each line of goods with Nos. of yarns made by Spinners.

Textile Supply Directory (90 pages), giving manufacturers of chemicals, dyestuffs, yarns, textile machinery and supplies of all kinds, this enabling the trade to communicate with first hands.

The Office Edition is printed on plate paper with heavy cloth binding, and contains all features above. Size, 6x9 inches; 1706 pages; weight, 4¼ lbs. Price, \$4.00, delivered.

The Pocket Edition is printed on light paper with flexible cloth covers, and contains all features except the Classified Directory of Cotton and Woolen Mills, Dry Goods Jobbers and Textile Supply Directory. Size, 5x7½ inches; 900 pages; weight, 18 oz. Price, \$3.00, delivered.

TELEPHONE CONNECTION

ERNEST SCHEU

Silk Dyer

Skein Yarns and Narrow Fabrics a Specialty

1156 RAILROAD STREET

CATASAUQUA, PA.

WM. ALLEN SONS CO.

Patent Bleaching Kiers

Dye and Bleaching Tanks,

Steam Boxes, Boilers, Etc.

Plate Iron Work of Every Description

65 Green Street, WORCESTER, MASS.

THE PAVIA SHUTTLE CO.

Manufacturers of all kinds of

SHUTTLES, TENSIONS, LOOM STRAPS, ANCHOR BOBBINS, WARP RODS, QUILL BOARDS, CLOTH ROLLS, FALSE REED FRAMES, HEDDLE FRAMES, QUILLS, Etc.

Long Distance Phone 34 R

26 South Hall Street ALLENTOWN, PA.

BOOKS ON TEXTILE SUBJECTS.

- Wool Dyeing (Part 1)**, by W. M. Gardner. Price \$2.00.
TABLE OF CONTENTS: Fibre, Scouring, Bleaching, Water, Mordants, Assistants and other Chemicals.
- Wool Dyeing (Part 2)**, by Gardner and Knaggs. \$3.00.
TABLE OF CONTENTS: Classification of Coloring Matters; Natural Dyestuffs: Logwood, Redwoods, Madder, Cochineal, Kermes and Lac-dye, Orchlil; Cudbear and Allied Coloring Matters, Yellow-Dyes, Indigo; Artificial Dyestuffs: Classification of Coal-tar Dyes, Artificial Mordant Dyes, Acid Mordant Dyes, Acid Dyes, Direct Cotton Dyes Suitable for Wool, Basic Dyes, Dyes Applied by Oxidation, Reduction and other Special Processes, Metallic Dyes, Methods of Dyeing Wool in Various Forms, Suitability of Dyes for Different Classes of Work, The Theory of Wool Dyeing.
- The Dyeing of Cotton Fabrics**, by F. Beech. Price \$3.00.
TABLE OF CONTENTS: Fibre; Action of Alkalies, Acids and Oxidising Agents; Bleaching; Dyeing Machinery and Manipulations; Principles and Practice of Cotton Dyeing; Dyeing Unions, Cotton-Wool, Cotton-Silk; Washing, Soaping, Drying; Testing Color; Experimental Dyeing and Comparative Dye Testing.
- Silk Dyeing Printing and Finishing**, by G. H. Hurst. Price \$2.00.
TABLE OF CONTENTS: Fibres; Bolling Off; Bleaching; Dyeing Blacks and Fancy Colors; Weighting; Dyeing Mixed Fabrics; Printing; Dyeing and Finishing Machinery and Processes.
- Dyeing of Textile Fabrics**, by Hummel and Hasluck. Price \$2.00.
Three Volumes Bound in One.
Vol. 1: Textile Fabrics and Their Preparation for Dyeing.
Vol. 2: Coloring Matters for Dyeing Textile Fabrics.
Vol. 3: Mordants, Methods and Machines used in Dyeing.
- Wool, Cotton, Silk; Fibre to Finished Fabric**, by Posselt. Price \$7.50.
TABLE OF CONTENTS: Raw Materials; Preparatory Processes: Carding, Drawing, Spinning and Twisting; Winding, Warping; Weaving Machinery and Supplies; Knitting, Processes and Machinery; Dyeing, Bleaching, Mercerizing, Processes and Machinery; Finishing, Processes and Machinery; Heat, Power and Transmission.
- Color in Woven Design**, by R. Beaumont. Price \$7.50.
This work contains on 32 plates 126 colored illustrations of Diagrams illustrating the Mixing of Colors; Fancy Yarns, Fancy Cassimeres, Worsted, Trouserings, Coatings, Suitings, Ladies Dress Goods, Cloakings, Fancy Cotton and Silk Fabrics. Besides said 126 colored illustrations, the work contains 203 illustrations, in black and white, of Weaves and Color-Effects in Fabrics, etc., accompanied by 440 pages of reading matter.
- The Jacquard Machine**, by E. A. Posselt. Price \$3.00.
TABLE OF CONTENTS: Different parts of the Jacquard Machine and its Method of Operation; The Jacquard Harness; The Comberboard; Tying up of Jacquard Harnesses for all kinds of Fabrics, Modifications of the Single Lift Machine; Stamping, Lacing and Repeating of Jacquard Cards; Practical Hints on Jacquard Designing.
- Testing of Yarns and Textile Fabrics**, by J. Herzfeld. Price \$3.50.
A Guide for the Manufacturer and Large Purchaser, who observe definite specifications to insure standard material and workmanship; also giving a collection of tests, both of physical and of chemical nature.
- Woolen Spinning**, by C. Vickersman. Price \$1.75.
TABLE OF CONTENTS: Fibre, Supply, Sorting, Scouring and Drying, Bleaching and Extracting, Dyeing, Burring, Mixing and Oiling, Carding, Spinning, The Mule, Miscellaneous.
- Wool Combing**, by H. Priestman. Price \$1.50.
TABLE OF CONTENTS: Fibre, Washing, Water, Carding, Preparing, Intermediate Processes, Combing, Finishing, Tops and Top Testing.
- Silk Throwing and Waste Silk Spinning**, by H. Rayner. Price \$2.50.
A Treatise on the Principles of Silk Throwing and Waste Silk Spinning, with Illustrations and Descriptions of the Machinery used.
- Textile Calculations**, by E. A. Posselt. Price \$2.00.
A Complete Guide to Calculations Relating to the Construction of All Kinds of Yarns, Fabrics, and the Analysis of Cloth.

The above books, as well as any other books on Textile Subjects, no matter where published, sent charges prepaid. Remittances should be made by Check or Money Order, or in Registered Letters. Not responsible for money lost, when otherwise sent.

TEXTILE PUBLISHING COMPANY

Lambert and Berks Sts.

PHILADELPHIA, PA.

WEIMAR BROTHERS
MANUFACTURERS OF
Tapes, Bindings and Narrow Fabrics
2046-48 AMBER STREET
PHILADELPHIA

NEW YORK OFFICE
353-373 RIDER AVENUE.

American Textile Specialty Machinery Co.

MANUFACTURERS OF

SHUTTLES, SHUTTLE IRONS, PAPER COP
TUBES, SHELLS AND CONES

COR. EDDY AND BLACKSTONE STS.
PROVIDENCE, R. I.

A. J. BONNER
SHEET METAL WORKER
Cylinders, Rollers, Spool Drums, Etc.
Ordered Work a Specialty Established 1865
1633 N. SECOND ST. Philadelphia, Pa.

Long Distance Telephone 426

Established 1888

WIDMER BROS.
Silk Ribbon Looms

— BATONS A SPECIALTY —

108-114 North 7th St.

Paterson, N. J.

K-A Electrical Warp Stop**IS ACTIVE AND UP TO DATE**

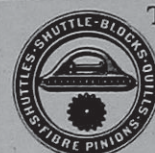
SUBSTANTIAL EQUIPMENTS NOW IN PROCESS.

REPEAT ORDERS ARE ENDORSEMENTS OF MERIT.

COMPARISON WITH OTHER WARP STOPS INVITED.

K-A STANDS FOR CERTAINTY—SAFETY—SAVING.

K-A Dept.
Mossberg Wrench Company
Central Falls, R. I.



TAPE & RIBBON SHUTTLES
QUILLS, FIBRE PINIONS

WRITE ME FOR PRICES
BEFORE ORDERING ELSEWHERE

ROBERT G. PRATT, Worcester, Mass.

"Paragon" & "Union"

(HEAVY)

(LIGHT)

APRON ROLLS

The condition of aprons or rub rolls is a matter of the greatest importance



Paragon and Union Apron Oils keep the aprons or rub rolls soft and pliable. They not only tend to increase production but to make a smooth roving.

BORNE, SCRYSMER COMPANY

80 South Street, New York

BOSTON

FALL RIVER

PHILADELPHIA

Works: Claremont, Jersey City, N. J.

MILL NEWS—(Continued)

Little Falls, N. Y. It is reported that the mills of the Robt. McKinnon Co. which have been idle, due to financial litigation, are again in operation under the management of the trustee.

Lyons, N. Y. The branch plant of the Gloversville Silk Mills here, which have been idle for some time, has resumed operation.

New York. The American Woolen Co. have removed to their new building at Fourth Ave., between 18th and 19th Sts. The new building is eighteen stories in height and on the various floors from the thirteenth up, the offices and departments of the company are located.

New York. The Harodite Finishing Co. has been incorporated with a capital stock of \$25,000 by David Steiner, 32 Broadway, and others, to engage in the finishing of textile fabrics.

New York. The Utopia Embroidery Co. has been incorporated by Isaac Louis, 100 West 118th street, and others, capital \$5,000, and will engage in the manufacture of embroideries and trimmings.

New York. The White Silk Braid Co. has been incorporated by Nathan Silverman, 410 Lenox avenue, and others, capital \$12,000, to engage in the manufacture of braids.

Oriskany Falls, N. Y. The Marshall Knitting Co. has taken over the plant of the Oriskany Falls Knitwear Co.

Oswego, N. Y. James A. Shufelt, formerly supt. of the Swits Conde Mill and the Frederick Conde plant, is interested in the formation of a company, capital \$40,000, to engage in the manu-

facture of high grade two piece underwear. They will build a factory three stories high, 50 by 150 ft., and expect to start operation about August 1st, 1911.

Oswego, N. Y. It is reported that the Minetto-Meriden Shade Cloth Co. is planning the erection of a cotton mill, which will quadruple its plant.

Pleasant Valley, N. Y. It is reported that the Garner Cotton Mill, which has been idle for eight or nine months, will resume operation on printed calicos.

Port Jervis, N. Y. Kattermann & Mitchell Co., manufacturers of broad and tie silks, Paterson, N. J., who operate a branch plant here, are equipping another mill in this city, to be used as an annex.

Theresa, N. Y. The Theresa Silk Co. report that they are extremely busy, and are considering the erection of a branch plant at Carthage, N. Y., provided they get the assistance of the Board of Trade.

Utica, N. Y. The Avalon Knitwear Co. will erect a waste and storage house at an estimated cost of \$1,200.

Utica, N. Y. The Lincoln Knitting Co. has been incorporated with a capital of \$130,000 by Jacob Agne, of Utica and others, for the purpose of engaging in the manufacture of hosiery and underwear.

Utica, N. Y. The Fort Schuyler Knitting Co. are installing the equipment in their new mill.

Utica, N. Y. The plant of the Genesee Underwear Co., which has been idle for six months or more, has been taken over and will be operated by the Lincoln Knitting Co., who were recently incorporated with a capital of \$130,000.

Utica, N. Y. The La Tosca Knitting Co. has taken over and will operate the Robert MacKinnon Co.'s plant at Little Falls, N. Y., producing the usual line of 25 cent goods, for which the plant is noted.

Valatie, N. Y. J. M. Lyons & Co. are installing machinery in their plant here for the manufacture of misses' and children's sweaters, gloves and mittens, preparatory to starting operations about December 15th.

Wappinger's Falls, N. Y. The Garner Print Works & Bleachery have commenced the manufacture of sheets and pillow cases with an equipment of 40 sewing machines.

Waterford, N. Y. It is reported that Daniel Halpin, of Troy, will operate the Ranney Dye Works as trustee.

Waverly, N. Y. The equipment of the Waverly Silk Ribbon Co. will consist of 38 looms and accompanying machinery, and will give employment to about 70 operatives.

Whitesboro, N. Y. The Anchor Knitting Mills have completed their three-story brick annex, 50 by 100 feet.

Boston. The new Maverick mills have begun operation, but are not as yet completed, several buildings remaining to be erected. The mill already opened will employ 1,500 hands, and the plant when completed will give employment to 5,000 hands.

Canton, Mass. It is reported that the Draper Bros. Co. will erect an addition to their plant, 100 by 65 feet, and two stories high.

Holyoke, Mass. The Farr Alpaca Co. are planning the erection of a modern weave shed, on the site now occupied by their old mill. The various departments in their large new mill are rapidly getting under way, and it is expected to have the new mill in operation in a short time.

Hopedale, Mass. Conclusive evidence that the tide has turned in the cotton manufacturing field is evident, as shown by the increasing demand for the Draper Northrop Looms. In the past eleven weeks the Draper Co. have received orders for almost seven thousand looms, about five sixths of this number are for replacing the old style loom and in most cases are repeat orders.

Littleton, Mass. The property of the Houghton Web Co., has been purchased by the T. Martin & Bros. Mfg. Co., manufacturers of Elastic Webbing, etc., Chelsea, Mass.

Lowell, Mass. The Belvidere Woolen Mills are operating overtime.

Lowell, Mass. The Merrimack Utilization Co., manufacturers of cotton waste, having outgrown their present plant, have leased the No. 10 mill of the Middlesex Co., which will give them about three times as much room as they had before. It is their intention to have the machinery installed and the plant in operation by the first of the year.

Malden, Mass. The Holmes Knitting Co., manufacturers of union suits and sweater coats, will erect a three story addition to their plant, which will enable them to double their capacity.

(Continued on page xxi.)

INNIS, SPEIDEN & CO.

Established 1816 - - - - - Incorporated 1906

Importers of

Aniline Colors & Dyestuffs

**Electrolytic Caustic Potash
Carbonate Potash**

46 Cliff St., New York

Boston: 220 Congress St. Philadelphia: 147 S. Front St. Chicago: 9 & 11 W. Michigan St.

HARDING & FANCOURT INC.

KENSINGTON SOAP WORKS

**TUSCAN SOFTENER
TEXTILE SOAPS OF QUALITY**

Green Olive Soap a Specialty

Importers Olive Oil. Turkey Red
and Soluble Oils

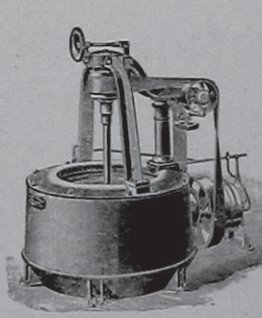
1095 Germantown Ave - PHILA. PA.

YARN AND CLOTH TESTERS

**REELS, SCALES
TWIST COUNTERS
YARN INSPECTORS, &c.**

MADE BY

HENRY L. SCOTT & Co.
PROVIDENCE, RHODE ISLAND



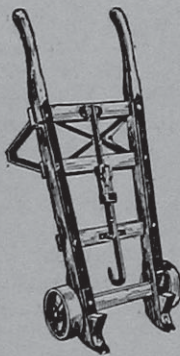
SELF-BALANCING
Hydro-Extractors

Belt, Engine
and Motor Driven.

Reel Dyeing Machines

**HYDRAULIC
CUTTING PRESS**

**TOLHURST
MACHINE WORKS
TROY, N. Y.**



ECONOMY IN TRUCKING

With a **HERCULES** self loading truck, one man loads and conveys heavy boxes, barrels or bales which with the old style truck requires the united efforts of from two to three men. These trucks positively guaranteed in every particular. Used by leading textile mills. Write for prices and references.

United States Truck & Supply Co.,
Machinery Department, The Bourse,
Philadelphia, Pa.

HICKORY PICKER STICKS

• No. 1. HICKORY. •

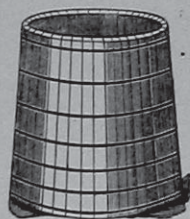
**SHAFTING, HANGERS, PULLEYS AND
TEXTILE MILL SUPPLIES**

MANUFACTURERS OF

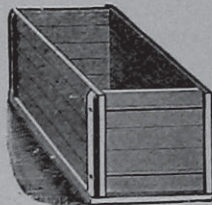
OAK LEATHER BELTING

CHARLES BOND COMPANY
520 ARCH STREET PHILADELPHIA, PA

G. WOOLFORD WOOD TANK MFG. Co.



**TANKS
VATS
AND
DYE
TUBS**



FOR ALL PURPOSES

1429 Chestnut St. Philadelphia

Calder Machine Works

420 North Third Street
PHILADELPHIA, PA.

*Spindles, Flyers, Caps, Tubes
and all parts for*

WORSTED AND SILK SPINNING

SPINDLES AND FLYERS CORRECTLY REPAIRED



In response to an inquiry,

we submitted samples. Inquirer replied: "We have never before seen spun silk as good as this. We are afraid that you can not possibly deliver equal to the sample submitted."

The sample was from our regular spinning. Constant devotion to one ideal—making the best spun silk possible, has brought its results. The superiority of **CHAMPLAIN Spun Silk** is now fully apparent.

Made in the single or ply; sold in the natural or dyed; put up in skeins, on cops, tubes, spools, cones or in warps.

Champlain Silk Mills

WHITEHALL, N. Y.

OFFICES:

260 West Broadway, New York City, N. Y.
Mariner & Merchant Bldg., Philadelphia, Pa.
516 Medinah Bldg., Chicago, Ill.
408 Hitchcock Bldg., Springfield, Mass.

MILLS:

Whitehall, N. Y.
Brooklyn, N. Y.

WEIGHTING OF COTTON AND SILK YARNS.

(Continued from page xvi.)

In the relative tests, a sample of 3's single cotton yarn, weighing 12 grams, was used. It was immersed in the solution at 104° F. and retained therein for half an hour, after which it was dried at a temperature of 70° F. and weighed and was found to weigh 13.27 grams, or an increase of 1.27 grams over the original weight of 12 grams, being an increase of 10½ per cent, in turn bearing out the contention before stated.

As a matter of explanation, black cotton yarn is frequently weighted by the application of Sumac and an Iron salt, by which method the weight may be increased 7 or 8 per cent.

In the application of this method, a bath is made along the following proportions, basing the quantities on a batch of 100 lbs. of yarn.

The operation requires two baths, the first is made by the addition of 15 to 20 lbs. of Sumac extract, dissolved in the required amount of water, and the second bath is made by adding Pyrolignite of Iron to the water.

In the first instance, the yarn is worked in the Sumac bath for about two hours, after which it is squeezed thoroughly and passed through the bath containing the Pyrolignite of Iron (2 to 3° B); by which procedure the weight of the yarn is increased from 7 to 8 per cent.

SILK YARNS, owing to their nature of composition and structure, are more readily adapted for loading, *i. e.*, weighting, than any other yarn.

From a chemical stand-point, silk is known to be composed of several constituents:—True silk fibre or fibroine; gelatin or sericine, *i. e.*, gum; and fat, resin, coloring matter and mineral substances. In proportion, it might be said that the amount of true silk averages 63 per cent, the sericine 22 per cent and the remaining substances 15 per cent.

Silk has been weighted up to nine times its original weight for experimental purposes.

Weighting of the silk fibre, in this instance, resulted in a heavy incrustation of the metallic salts on the fibre, similar to that produced by calcareous water on foreign substances.

For practical purposes, silk is usually weighted to about three times its weight, using some of the metallic salts such as Basic Ferric Sulphate, Pyrolignite of Iron, Alum or Aluminium, Stannous Chloride, Sulphate, Nitrate of Iron, after which the silk is dyed. Weighting or Loading of silk is made use of to compensate the manufacturer for the loss he suffers when boiling-off the silk and which loss amounts up to 30 per cent, some silks losing more than others; again, according to the class of fabric they are used for, some lots are boiled-off less thoroughly than others.

WOOLENS AND WORSTEDS IN LEEDS, ENGLAND.

Trade with the United States is better than last year. Shipments through the first nine months of 1909 were: Woolens, \$24,880; worsteds, \$3,715. Like period in 1910: Woolens, \$33,589; worsteds, \$10,097.

MILL NEWS—(Continued)

Medway, Mass. It is reported that the Fabyan Woolen Co., whose plant at Stafford Springs was destroyed by fire, have leased the Sanford Mills here, and will put the same in operation at once.

Methuen, Mass. Fire at the plant of the Tremont Worsted Co. caused a damage of \$10,000.

New Bedford, Mass. The Acushnet Cotton Mill Corp. have doubled their capital stock, making it \$1,000,000, by the declaration of a dividend of 100 per cent payable on all shares outstanding.

New Bedford, Mass. The erection of the new Nonquit Mill is completed and when in full operation will give employment to 700 additional hands. The equipment consists of 70,000 spindles.

New Bedford, Mass. The Beacon Mfg. Co., manufacturers of blankets and napped fabrics, are considering the erection of a mill in the spring, which will practically double their production.

New Bedford, Mass. The new Sharp Mill has been completed, and the installation of the equipment will be pushed at once, as it is desired to have the plant in operation by May 1st, 1911, at the latest.

New Bedford, Mass. The Soule Mill Corp. is planning a number of improvements, among which are the erection of a five story brick cotton warehouse, a new picker house, two stories high, and a waste house.

Newburyport, Mass. The Warner Cotton Mills are replacing a majority of their old style spinning machinery with a more up-to-date equipment.

North Adams, Mass. The Greylock Mfg. Co. who have taken over the plants of the Williamstown (Mass.) Mfg. Co. and the North Pownal (Vt.) Mfg. Co. will increase their capital by \$300,000. The intention is to replace the spinning machinery at the North Pownal plant with entirely new equipment for producing fine counts of yarns.

North Adams, Mass. The Hoosac Cotton Mills, a new corporation recently organized to take over the Eclipse and Beaver Mills, has been incorporated under the laws of Massachusetts with a capital of \$1,500,000. Wm. Butler, Boston, is pres., Robt. W. Prentice, N. Adams, treas., N. B. Keer, agt., and Wm. K. Greer, supt.

Pittsfield, Mass. The Pontoosuc Woolen Mfg. Co. have installed additional carding and spinning equipment.

Ware, Mass. The George H. Gilbert Mfg. Co. is building an addition to its woolen mill, to be used for a dressing department.

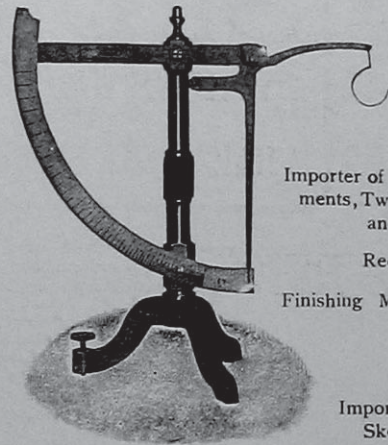
Ware, Mass. The Stevens Woolen Mills, which have been idle since July, have started operation.

Whitinsville, Mass. It is reported that the Whitin Machine Works are removing the equipment of their Providence plant to the buildings they have recently erected for that purpose here.

Worcester, Mass. The Dudley Mills Co. has been incorporated with a capital of \$25,000, by Philip E. Dudley, 80 Beacon street, and others, to manufacture cotton, silk and other textile fabrics.

Worcester, Mass. The Worcester Woolen Mill Co. will erect an addition,

A. SUTER

TEXTILE
ENGINEER

INQUIRIES SOLICITED

487 Broadway
New York

(Silk Exchange Bldg.)

Telephone Spring 2641

Importer of Yarn and Cloth Testing Instruments, Twist Measurers, Scales, Strength and Elasticity Measures.

Reed Entering Machines.

Finishing Machinery of all Kind for all Weaves.

Mill Supplies.

Importer of Schappe on Cops, in Skeins, in Singles and Doubles.

J. VILLARD & CIE, - LYONS

TRADEMARKING MACHINES

ALSO YARDSMARKING

Done with other operations Practically costs nothing Wool cotton linen silk All fabrics

PARKS & WOOLSON MACHINE CO., SPRINGFIELD VERMONT

Cravenette N.H.&Co HEATHER BLOOM
Hydegrade FLAXON
TEXTILES SOIESETTE ECONOMY LINEN

F. WEBER & Co.

ST. LOUIS

1125 CHESTNUT ST., PHILADELPHIA

BALTIMORE

Artists' and Designers' Materials

DESIGNERS' MOIST, DRY AND DISTEMPER COLORS. Finest Qualities of Designers Brushes, Designers' Paper, Drawing Tables and Boards.

"FABRIANO" HAND-MADE DRAWING PAPER. Quality unsurpassed by any other hand-made papers on the market.

WORKS ON ART. For Textile Workers, Upholsterers, Architects, Sculptors, Engravers, Metal Workers and Designers of all branches. The latest publications constantly received.

TAPESTRY PAINTING AND STENCIL MATERIALS.

CARPET CRAYONS, for spotting out. Made in 72 shades.

General Catalogue of Artists' Materials, Vol. 325, sent on request.

32 by 60 feet, to its plant, the same to cost \$3,000.

Bristol, R. I. It is reported that the Cranston Worsted Mills and the Namquit Worsted Mills will enlarge their plants.

Pawtucket, R. I. Work of equipping the new mill of the Regina Lace Co., organized last summer, is progressing steadily. They will start operations about the first of January.

Pawtucket, R. I. The Robert D. Mason Co., dyers and bleachers of cotton yarns, etc., will erect an addition to their plant, 127 by 66 feet, at the estimated cost of \$10,000.

Providence, R. I. The regular meeting of the Southern Textile Association was held at the Narragansett Hotel, there being about 150 prominent textile men present. The meeting was of a purely social nature with an extremely pleasing musical after-dinner program. The Prest., A. W. Dimick, of the Fisher Mfg. Co., presided and the success of the day is due to the energy of Henry C. Dexter, F. W. Howe and E. R. Richardson.

Providence, R. I. The Grant Mills, of the Hebron Mfg. Co., and of which Chas. E. Haynes is supt., are installing 84 new forty-inch looms, replacing their
(Continued on page xxii)

TEXTILE WORKERS BUREAU

The object of this department is to place manufacturers in touch with competent superintendents, designers, overseers, etc., when in need of the same and to put the latter in touch with the most desirable openings in the textile field.

This service is free to subscribers.

This department is under the supervision of Mr. H. Nelson Craig, known to a majority of manufacturers and overseers, and all matters will have his immediate attention.

INQUIRIES FOR HELP

Partner for Knitting Mill.

Wanted a bright, sober, experienced, hard working young man (25 to 35 years) who is anxious to go in business for himself, without having money of his own. He must understand to fix Knitters, Ribbers, and be able to handle help, and run a small, but good established Hosiery and Jackets factory, located in Chicago. Address: Chicago, care of Posselt's Textile Journal.

Overseer of Drawing, English System. A capable and experienced man. O. D. 68.

Loom Fixer on Knowles Gem-heads, 6 by 1 box looms on silk. Wages \$18. Address with age and references. L. F. 69.

Foreman for Quilling and Winding department. Quote reference and salary expected. F. Q. 70.

A former consular officer in Germany is about to enter business in that country as a commission agent, and would like to hear from American firms desirous of extending their trade. He is anxious to obtain catalogues, price lists, and full particulars as soon as possible. Address No. 5835, Bureau of Manufactures, Washington, D. C.

Textile Chemist, first class practical man is open for engagement; experienced in bleaching, mercerizing, dyeing and finishing all kinds of cotton and woolen goods, raw stock, skeins, pieces, etc.; Experience with all classes of colors; Specialities: vats and alizarin dyestuffs, anilin black, indigo, turkey red, produced in best up-to-date method at lowest cost; Familiar with all kinds of machinery. Capable of taking charge of a large plant. Address: *Chemist*, care of Posselt's Textile Journal.

Boss Finisher. Practical man with extensive experience in Bleaching, Dyeing, Calico Printing and Finishing Cotton Goods, in all their varieties, is open for position. O. F. 64.



SPUN SILK

YARNS FOR ALL PURPOSES

AMERICAN SILK SPINNING CO., PROVIDENCE, R. I.

Boss Weaver, experienced man on silk ribbons, age 36, good manager of help seeks position. Wages expected \$20. O. W. 60.

Boss Weaver. Married man, 36 years of age with a number of years experience in New England mills on cotton, silk and linen is open for position. O. W. 61.

Boss Dyer. An experienced man on both hosiery as well as skein yarn dyeing with extensive experience is open for position. Can come at once. O. D. 63.

Overseer of Finishing, with extensive experience on Woolens and Worstedds also piece dyes is open for engagement. O. F. 58.

Designer or Assistant to Superintendent. A position of this character is desired by a graduate of the R. I. School who has had practical experience, and can furnish references as to qualifications. Would make a very good assistant for a designer in any cotton mill. D. 57.

A merchant in Europe would like to get in touch with American exporters of khaki, with a view to supplying the same to the army. The quality desired is that of a sample which is on file in the Bureau of Manufactures, 38 threads per centimeter of length, 24 threads per centimeter of width, and 244 grams weight per meter. The threads should be dyed before weaving. Exporters should state price for 200,000 or 300,000 meters c. i. f. certain city; also commission granted to agent. No. 5630 Khaki—Bureau of Manufactures, Washington, D. C.

A trading company in the Far East is desirous of getting into direct communication with American manufacturers of cloth (gray calico, 36 inches). No. 5613 American gray calico cloth—Bureau of Manufacturers, Washington, D. C.

A business man in Norway is anxious to secure an agency for American cotton-seed oil in that country. No. 5657 American Cotton-seed Oil—Bureau of Manufacturers, Washington, D. C.

An American consular officer in the Levant has forwarded a sample of cotton rejections mixed with rags, secured from a local business man, who wishes to get in touch with exporters in the United States who can supply the article. No. 5633 Cotton rejections—Bureau of Manufacturers, Washington, D. C.

Wanted the names of firms in the United States that can supply certain classes of cotton denims. Samples of the goods desired can be obtained by interested firms upon application to the Bureau of Manufactures, quoting No. 5821.

A party in Scotland desires to hear from American manufacturers of autographic time recorders and a number of engineering specialties, as he wishes to undertake the sale of such goods in that country. Address No. 5827 Bureau of Manufactures, Washington, D. C.

MILL NEWS—(Continued)

thirty-two-inch looms. When the new looms are installed, the equipment will consist of 294 forty-inch looms.

Providence, R. I. The Earncliffe Woolen Mills have been purchased by the Paragon Worsted Company of Woonsocket. The plant, which has been idle more than two years, will be started as soon as practicable.

Woonsocket, R. I. The Rathbun Knitting Co., who are operating on a full time schedule, are building a two story brick addition 50 by 125 feet.

Woonsocket, R. I. Mills are very busy. The Perseverance, the Scotia and the Lowland are running full time. The Dunn, the Desurmont, the Montrose, the Paragon, the French, the Acorn, as well as the Guerin Spinning Co. and the River Spinning Co. are running on a day and night schedule.

Woonsocket, R. I. It is reported that the weaving department of the River Spinning Co. is to be removed to the new mill that is being erected by the French River Textile Co., at Mechanicsville, Conn., as soon as the same is completed.

Woonsocket, R. I. The Lafayette Worsted Co. is planning the erection of an addition to their mill.

East Killingly, Conn. It is reported that the Ross Mill has been purchased by Pascoag, R. I., parties, who will equip the same with 65 broad looms.

Middletown, Conn. At a recent meeting of the Twentieth Century Club, some interesting facts, relative to the development of the textile industry, were brought out by E. Kent Hubbard, Jr., of the Russell Mfg. Co. This concern for the past 76 years has been under the management of Henry G. Hubbard and E. K. Hubbard. They operate 17 mills, producing 70,000,000 yards of webbing annually, consuming from 1000 to 1200 bales of cotton a year.

SOCIETA per la FILATURA dei CASCAMI di SETA
MILAN (ITALY)

"CASCAMI"

Schappe, Spun Silk, Cordonnets for Sewing
In Skeins, on Cops, Spools, Cones, Beams

In the Gray or Dyed Special attention to regularity of size

VILLA, STEARNS COMPANY

487 Broadway, New York

Telephone 7950 Spring Sole Agents for the United States and Canada

VILLA, STEARNS COMPANY

Telephone 7950 Spring 487 Broadway, NEW YORK

RAW AND THROWN SILK
KNITTING SILKS, HOSIERY SILKS
SILK ON SPOOLS, CONES, QUILLS, BEAMS

Dyed Silk for All Purposes

BELTED—STEAM—ELECTRIC

Hundreds in Service **HYDRO** Write for Circulars

EXTRACTORS

—THE KIND FOR HARD SERVICE—

DIENELT & EISENHARDT, Inc.

1304-18 N. HOWARD ST.

PHILADELPHIA

HARWOOD'S MACHINERY

Increases Production, Improves Quality, Decreases Labor Cost

THE BRAMWELL SELF-WEIGHING FEEDER.

For Woolen, Worsted, Hosiery and Shoddy Cards and Garnett Machines.

THE APPERLY FEEDER. STANDARD OR WITH KEMP POSITIVE GEARED TRAVELER.

For Second Breaker and Finisher Cards.

THE GEB COMPENSATOR.

THE BRAMWELL PICKER FEED.

For Burr Pickers, Mixing Pickers, Fearnoughts and Lumpers.

THE SPENCER AUTOMATIC STOCK OILING MACHINE.

For Oiling Stock Automatically in Picker Room.

THE MODERN BRAMWELL FEED FOR WOOL WASHERS AND WOOL DRYERS.

REPAIRS AND IMPROVEMENTS FOR OLD FEEDERS.

APPROX OF ALL KINDS AND BEST QUALITY.

Call on us for particulars and information about all matters relating to Feeding Machinery.

GEO. S. HARWOOD & SON, 53 State St., Boston, Mass.

Joseph Merriam, of the Rockfall Woolen Co., claims that they are employing 121 hands, and had this season made up 1400 samples of which 300 patterns were under order.

Towsend Palmer, of the I. E. Palmer Co., manufacturers of hammocks, nettings, etc., stated that their mills produce 10,000,000 yards of fabrics annually, consuming about 2500 bales of cotton annually. They also manufacture the Palmer Thread Guide which is an absolute necessity in the successful operation of the spinning room.

Cheney Bros., silk manufacturers of South Manchester, are also establishing a plant here.

Rockville, Conn. The Rockville Worsted Co. are to increase their capital by \$37,500.

Niantic, Conn. It is reported that the plant of the Niantic Bleaching and Dyeing Co. has been taken over by a British syndicate, who will operate the same in conjunction with their plants abroad. Wm. W. Pike still retains an interest in the new concern, who contemplate spending about \$1,000,000 in erecting a new and up-to-date bleachery here.

Phoenixville, Conn. Walsh & Laddy of Durham, Mass., will equip the mill

that was formerly used for the manufacture of twine here with machinery for the manufacture of Axminster carpets, and will operate under the name of the Phoenix Manufacturing Co.

Willimantic, Conn. The Windham Mfg. Co., which has been running on a short time basis for the past three months, has resumed the 58 hour a week schedule.

Brunswick, Me. The Brunswick Knitting Mills, which had just been overhauled and were working on a full time basis with plenty of business ahead, suffered a loss of \$10,000 on their stock and equipment, by fire.

Oakland, Me. W. T. Haines, of Waterville, is interested in the new company which has purchased the Oakland Woolen Mill. C. I. Lincoln who has been managing the mill for the past two years will continue in the same capacity.

Lakeport, N. H. H. H. Wood & Co., manufacturers of woolen and plaited seamless hosiery, will erect an addition to their dyehouse.

Milford, N. H. It is reported that the Lowell Textile Co., North Chelmsford, Mass., are considering a proposi-

tion to purchase the mills of the Middlesex Linen Co., who intend retiring from business.

Nashua, N. H. The new storehouse of the Nashua Mfg. Co., will have a capacity to hold 18,000 bales of raw cotton.

Nashua, N. H. It is reported that the mills of the Nashua Mfg. Co. and The Jackson Co. will be consolidated under one management, and that the intention is to have the Jackson Mills operate on a certain line of fabrics entirely, which would relieve the Nashua Mills from this line of production.

Baltimore, Md. The business conducted under the name of Johnson Dukehart & Co., manufacturers of cotton nettings, 16 E. Lombard St., will be conducted by the R. J. Ederer Net and Twine Co.

Baltimore, Md. The mills of the Consolidated Cotton Duck Co., which are operated by the International Cotton Mills Co., are working over time. Their mills at Woodbury are operating on a full time basis, after a short time schedule for about a year.

Sharpsburg, Md. J. C. Roulette & Sons, manufacturers of underwear,

THE BEST LOOM REED MADE IS NONE TOO GOOD FOR YOUR WORK

We make a specialty of **Heavy Reeds** for weaving Carpets, Duck, Webbing, Woolen and Worsted goods, &c.

Our Reeds have stood the test for over **FORTY YEARS.**

Let us quote you prices, and show you how good a Reed we can make.

THE WHITAKER REED CO. - - Rear 84 Austin St., WORCESTER, Mass.

Hagerstown, Md., are contemplating the erection of a branch plant here.

Buckhannon, W. Va. The London Woolen Mills Co. have been incorporated with a capital of \$5,000 by J. H. Kaplan and others.

Parkersburg, W. Va. The North American Woolen Mills have been incorporated with a capital of \$5,000 by Clyde C. Boso and others.

Burlington, N. C. James N. Williamson, Jr., pres. of the Hopedale Mills Co. and also of the firm of James N. Williamson & Sons, who operate the Ossipee Mills, Elon College, N. C., has taken over the Hopedale Mills and will operate the same in conjunction with the Ossipee Mills; the former is equipped for the manufacture of yarns, and the latter for the manufacture of domets and flannels.

Charlotte, N. C. The Fall Convention of the Southern Textile Association was one of the best and most interesting, as well as profitable, that has ever been held by this organization. There were over 400 men identified with the textile industry in the various

branches present. In the early session, L. P. Hollis of Greenville Y. M. C. A., of the Monaghan Mills, made an address on Industrial Education. E. C. Gwaltney of Winnsboro, S. C., read an interesting paper on Sizing and Size Mixing, which was of a practical nature. During the afternoon session R. L. Biggs, overseer of carding at the Midway Mill, Rockingham, N. C., read a paper on The Card Room, which was followed by a discussion on Card Setting by T. B. Wallace, Laurens, S. C., and W. P. Hurt, Concord, N. C. The day closed with a smoker, preceding which R. M. Miller, Jr., a former president of The American Cotton Manufacturers Association, spoke on the relationship that should exist between the operating department of the mill and the owners. The next meeting will be held at Anderson, S. C., on July 1st, 1911.

Concord, N. C. The Brander Cotton Mills Corporation, manufacturers of damask, have increased their capital by \$25,000 in order to make improvements.

Durham, N. C. The Erwin Cotton Mills, which have been operating on a

short time basis, are again on a full time schedule.

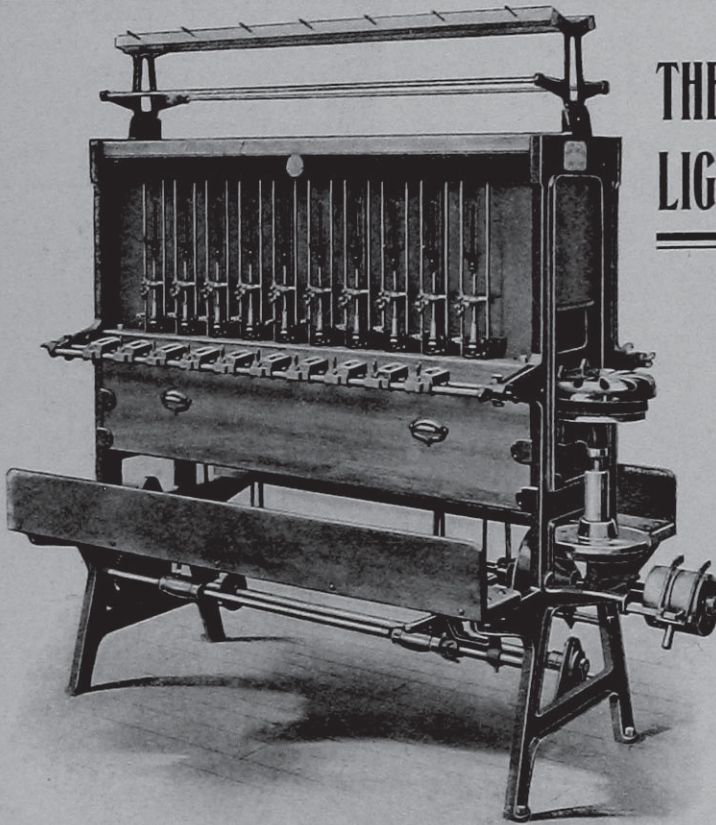
Fayetteville, N. C. The Holt-Williamson Co. have started the manufacture of soft yarns for the hosiery and knit goods trade.

Flat Rock, N. C. The Skyland Hosiery Co. Mills, H. E. Stillwell, manager, which were destroyed by fire, have been rebuilt, and are again in operation with a daily production of about fifty dozen pairs of silk hosiery.

Forest City, N. C. The Florence Mills have added 10 nappers, to be used in the manufacture of outing flannels, to their plant.

Greenville, S. C. It is reported that J. I. Westervelt, pres. and treas. of the Brandon Mills, is interested in the erection of a new mill here for the manufacture of India lawns and linens. These fabrics will be entirely different from any now manufactured in the South and the company is to be capitalized at \$1,000,000, and the equipment to consist of 50,000 spindles and accompanying machinery and looms.

Greenville, N. C. The Woodside Cotton Mills have increased their capital



THE SIPP MACHINE CO'S. LIGHTNING QUILLER-COPPER

Has a speed of 6000 Revolutions Per Minute;

Will Make Quills or Cops Plain or Cross Traverse;

Is Adjustable to any Length Stroke or Tension.

Makes Every Quill, or Cop, Exactly Alike.



THAT!
Tells The Story

LET US SEND REPRESENTATIVE TO EXPLAIN ITS MERITS

THE SIPP MACHINE CO.

PATERSON, N. J.



THAT!
Tells The Story

**A WELL DE-
FINED
TRADE-
MARK**

is guaranteed by the Kaumagraph Process of Textile Stamping, regardless of the quality or texture of the fabric. **The most practical process known.**

Send samples of your material and we will stamp them and return for inspection.

KAUMAGRAPH COMPANY

110-114 West 32nd Street : : : NEW YORK

from \$800,000 to \$1,200,000, to take care of the increase of business. This concern began business in 1902 with a capital of \$200,000, which has been growing continually from that time.

High Point, N. C. Stehli & Co., who operate a silk throwing plant here, are planning the erection of a large addition, and will equip the same for weaving.

High Point, N. C. One hundred and twenty-five knitting machines will be added by the High Point Hosiery Mills, Inc., in the new mill recently erected.

Huntersville, N. C. The Anchor Mills, of this place, are now at work erecting their own bleachery.

Lincolnton, N. C. D. E. Rhyne, pres. and treas., of the Daniel Mfg. Co., has purchased the plant and equipment of said company and will operate the same under the name of the Rhyne Cotton Mill.

Lowell, N. C. The Lowell Cotton Mills, of which John C. Rankin is pres., have increased their capital stock by \$350,000, and it is their intention to increase their equipment by the addition of 10,000 spindles and 300 looms.

River Falls, N. C. The River Falls Cotton Mills Co., of which J. W. Meneff of Graham, N. C. is pres. and treas., are preparing to erect a large plant here; the equipment of which will consist of 10,000 spindles and 240 looms.

Rockingham, N. C. The Entwistle Mfg. Co. has completed the installation of 20,000 spindles and 500 looms, and expect to have the same in operation by the first of the year on wide gray goods.

Smithfield, N. C. The Mason Machine Works, Taunton, Mass., have completed the installation of a 5,000-spindle equipment for the manufacture of hosiery yarn for the Ivanhoe Mfg. Co., and it is expected that the plant will be in operation in a short time.

Thomasville, N. C. The Amazon Cotton Mills are now in operation, the initial installation of their equipment having been completed. It is presumed that the equipment of the entire plant will be installed and in operation within a short time.

Thomasville, N. C. The equipment of the Jewel Cotton Mills is rapidly being installed, and it is expected to have the plant in operation in a short time. The equipment consists of 5,000 spindles for the manufacture of cotton yarns.

Walhalla, S. C. The Hetrick Hosiery Mills have added drying and singeing machines to their finishing equipment.

Berryton, Ga. The Berryton Mills are expected to have their new equipment in operation early this month, and will give employment to about 200 operatives.

Monticello, Ga. The Jasper Cotton Mills have awarded a contract for an equipment of a 10,000 spindle plant, for the manufacture of fine yarns.

Birmingham, Ala. It is reported that capitalists are considering a proposition for locating a mill here, for the manufacture of fine cotton cloths. The proposition is considered a good one in view of the fact that the Dwight Cotton Mills are unable to use the supply in the vicinity.

Eufaula, Ala. The Barbour Cotton Mills, which have been taken over by the Glenola Cotton Mills, a newly organized concern with a capital of \$50,000, will be operated by them. The pres. of the new company is John P. Foy, pres. of the Commercial National Bank of this city.

Selma, Ala. It is reported that new machinery will be installed in the Cawthon Cotton Mill, which has been idle for nearly two years, and which has been lately purchased by W. D. McNeil, of Fayetteville, N. C.

New Orleans, La. It is reported that C. W. Elrod and J. F. Bashara of Dallas, Texas, are interested in the formation of a company to erect a mill for the manufacture of artificial silk from the fibre of the *zapote* plant of Mexico.

New Orleans, La. The Lane Cotton Mills, which have been idle since last April, due to financial litigation, are again in operation, giving employment to about a thousand operatives.

Chattanooga, Tenn. The Davis Hosiery Mills will erect an addition to their plant, two stories high, 40 by 40 feet, at an estimated cost of about \$2,000.

Knoxville, Tenn. The Holston Underwear Mills Co. has been incorporated with a capital of \$50,000, to engage in the manufacture of women's underwear. The new company is a consolidation of the Biddle Mfg. Co., Knoxville, and the Harriman Knitting Mills.

Knoxville, Tenn. The Standard Knitting Mills will erect a cotton mill with an equipment of 13,000 spindles, and a knitting mill with an equipment of 50 knitting machines, buildings and machinery representing an investment of \$150,000.

Knoxville, Tenn. The Knoxville Woolen Mills, manufacturers of cassimeres, warps and hosiery yarns, are planning extensive improvements to their plant here.

St. Louis, Mo. The Sexton Manufacturing Co., manufacturers of knit underwear, who have recently received a large Government contract, have purchased a large building here, and are contemplating the erection of a large addition with an area of 20,000 sq. feet of floor space. Their plant, when completed, will represent an investment of

\$100,000, and will give employment to several hundred operatives.

Little Rock, Ark. W. H. Carter of the American Bag Co., Memphis, Tenn., is interested in the erection of a large cotton mill here.

Mentor, O. The Mentor Knitting Mills Co. are planning to double their capacity, by the installation of additional machinery and if necessary by the erection of new buildings.

Chester, Ill. The Chester Knitting Mills have increased their capital stock by the addition of \$60,000.

Chicago, Ill. The Lorenz Knit Goods Mfg. Co., manufacturers of sweater coats, underwear, etc., 1750-52 Belmont avenue, will erect a four story fireproof addition on the property adjoining their plant, also erecting two more stories to their present plant. They will also install new machinery, the cost of which will be \$20,000.

Springfield, Ill. The Strauss Knitting Mills have been incorporated with a capital of \$30,000, by Edward Strauss and others, to engage in the manufacture of knit goods.

Evansville, Ind. It is reported that C. M. Hofferberth, of New York, a relative of Mayor Charles Heilman, is interested in re-organizing the Evansville Cotton Mills Co., whose plant has been idle for some time.

Indianapolis, Ind. The Empire Neckwear & Knitting Co. has been incorporated with a capital of \$6,000, by N. H. Benson and others, to engage in the manufacture of neckwear and knitted goods.

Grand Rapids, Mich. It is reported that a number of local business men are interested in establishing a hosiery mill here.

Appleton, Wis. The Imperial Knitting Co. have been incorporated with a capital stock of \$10,000, to take over the plant of Herman Bach; it is their intention to move into new and larger quarters early in December.

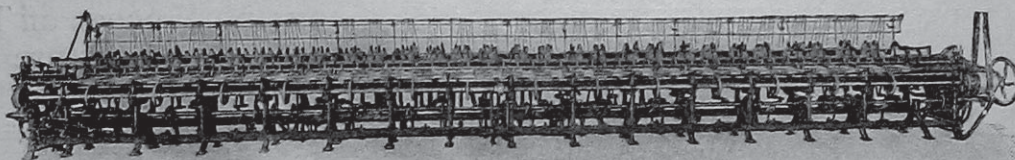
Mauston, Wis. John Stickler has succeeded his father, E. Stickler, as proprietor of the Mauston Woolen Mill.

Milwaukee, Wis. The Phoenix Knitting Co. will erect a five story concrete building, 79 by 120 feet, on Broadway near Chicago street.

Milwaukee, Wis. The Novelty Dye Works will erect a building four stories high, of fireproof construction. It is estimated that the dyehouse will cost between \$30,000 and \$40,000.

Fergus Falls, Minn. The Fergus Falls Woolen Mills are preparing to move their equipment to their new mill, which is nearly completed.

Washougal, Wash. Dr. Bailey, owner and manager of the new woolen mill,



H. ALBAN LUDWIG, Chemnitz, Saxony

MANUFACTURER OF THE FAMOUS

Ludwig's Full Fashioned Hosiery Machines

(COTTON'S SYSTEM)

SPECIAL IMPORTANT FEATURES: (PAT. DIVIDED NARROWING MACHINE
PAT. INTERNAL C-M-MOVEMENT
MOVABLE STRIKING-OFF COMBS.)

RIB-TOP MACHINES: LUDWIG'S HIGH SYSTEM—COTTON'S SYSTEM.

LOUIS HIRSCH, Representative for the U. S., 260 West Broadway, NEW YORK CITY

which is being erected here, is rapidly installing the equipment, and expects to have the same in operation within a short time, giving employment to 100 operatives.

San Diego, Cal. It is reported that a cotton mill will be erected here at a cost of \$300,000 for the manufacture of towels and damask.

ABOUT MEN YOU KNOW

H. L. Churchill, formerly asst. supt. of the Erie (Pa.) Silk Mills, is now supt. of the Jefferson Silk Mills, operated by Hoffman & Maas, West New York, N. J.

George S. Drewes is the new res. mgr. for the Griswold Worsted Co., Darby, Pa.

T. C. Hudson is now with Folwell Bro. & Co., proprietors of the Collingwood Mills, Philadelphia.

Samuel D. Parker has been elected treas. of the Ipswich Mills, Ipswich, Mass.

Thomas Roe has been appointed supt. of the new mill at Florence, of the McCallum Hosiery Mill, Northampton, Mass.

Ralph Wilson has been appointed gen. agt. for the Lowe Mfg. Co., Huntsville, Ala.

John E. Doyle has again accepted the position as designer for S. Sanford & Sons, Amsterdam, N. Y., where he was formerly employed.

John E. Curtis has been appointed agent of the Atlantic Cotton Mills, Lawrence, Mass.

Richard B. Morrell, pres. of Binder-Morrell Co., manufacturers of upholstery goods, Philadelphia, has resigned.

William R. Evans, sec. of the Evans & Stonely Knitting Mills, Gtn., Phila-

delphia, was injured in an automobile accident on York road. The accident caused the death of the express wagon driver.

Albert Hudson is the new boss carder, worsted dept., No. 4 mill, of the Geo. H. Gilbert Mfg. Co., Gilbertville, Mass.

Harry Metcalf is the new supt. of the Providence Combing Co., Olneyville, R. I.

F. C. Patterson is the new supt. of the Wakefield (R. I.) Mfg. Co.

Frederick Roehner is the new boss finisher for the Fred. L. Sayles Co., Pascoag, R. I.

William Sheppardson is the new supt. of the Mark Knitting Mill, and under his supervision, new machinery is now being installed; Herkimer, N. Y.

William C. Danon is the new supt. of the plant of A. L. Sayles & Sons, Pascoag, R. I.

Thomas Jones, vice-pres. and mgr. of the Stewart Silk Co., will on Jan. 1, become sales mgr. of the Poidebard Silk Mfg. Co.

W. T. Bethea, cashier of the Bank of Dillon, (S. C.), is the new pres. of the Dillon Cotton Mill. He will also act as pres. of the Hamer (S. C.) Cotton Mills.

A. M. Fairley is the new supt. of the Waverly Cotton Mills, Laurinburg, N. C.

John Jones is now in charge of the dressing of the Kent Mfg. Co., Centreville, R. I.

Charles A. Sweet is now supt. of the mills of the Swift Mfg. Co., Columbus, Ga.

John T. Abney has been elected sect. and treas. of the Swift Mfg. Co., Columbus, Ga.

Ernest Gross is now designer at the Akela Mill, of A. H. & F. L. Sayles, Pascoag, R. I.

J. D. White, cashier of the Collin

County National Bank, McKinney, Tex., is supt. of the new cotton mill, which began operation November 15th.

Harry H. Daw, formerly designer, has been promoted to the position of supt. at the Wuskanut Mill, Farnumsville, Mass.

A. F. Griffin is in charge of the Hoosac Worsted Mills, N. Adams, Mass.

James Kidd is now supt. of one of the departments of Simpson & Co.'s Knitting Mill, Toronto, Ont.

James Sheppard has been appointed supt. of the R. I. Worsted Co., Stafford Springs, Conn.

Eugene H. Door has been appointed gen. Mgr. of the Standish Worsted Co., Plymouth, Mass.

OBITUARY

Thomas Mulholland, manufacturer of cotton and woolen goods; Frankford, Philadelphia.

Joseph B. Scatchard, vice-pres. of Joseph Scatchard's Sons, woolen manufacturers; Germantown, Philadelphia.

E. G. Chester, of the E. G. Chester Hosiery Co.; Philadelphia.

John C. Dowell, for many years supt. of the Phoenix Mfg. Co. He was a member of the well known Dowell family, which was intimately connected with the growth of the silk industry in this country, his father John Dowell, having been a member of the firm of Tilt & Dowell, which afterwards became the firm of Dexter, Lambert & Co.; Paterson.

Samuel Edward Hathaway, supt. of the Fall River Iron Works Co.; Fall River, Mass.

John W. Brogden, boss carder and comber in the George H. Gilbert Mfg. Co.'s woolen mill; Gilbertville, Mass.

Peter Hunt Brown, who organized the American Worsted Co. in 1862, and



CHARLES H. SCHNITZLER,
215 North Second St., Philadelphia, Pa.

Patentee and Sole Manufacturer of

The Pneumatic Conveyor

For the handling of wool and cotton stock, rags, excelsior, jute and all kinds of fibrous material, wet or dry. Also spool elevators, steam heating and ventilating and mill work generally. Blower and fan work a specialty. This conveyor is patented. Beware of infringements. Satisfaction Guaranteed.

Established 1897

Wipers Washed and Replaced in Good Order at Lowest Prices

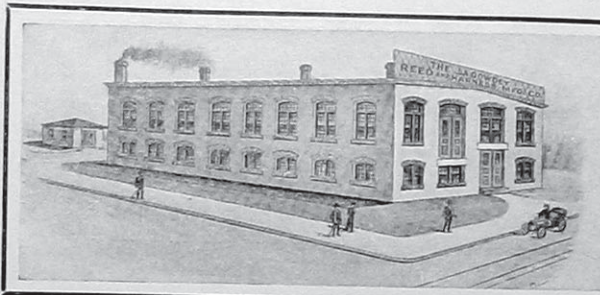
HARRY CROWTHER

Manufacturer and Washer of

Silk Wiping Cloths, etc.

Rorer and Ontario Sts.

PHILADELPHIA, PA.



**THE J. A. GOWDEY
REED AND HARNESS MFG. CO.**

JAMES WILSON, Pres. and Treas.
1226 North Main St. PROVIDENCE, R. I

*Soldered Reed Work a Specialty.
Tempered Steel Reeds for Wire Weaving.*
Satisfaction Guaranteed. Prompt Delivery.
Large Stock of Raw Material Constantly on Hand.

with which he remained until 1886, when he engaged in the worsted yarn business; Providence, R. I.

Frank B. Buck, sect. and treas. of the H. L. Welch Hosiery Co.; Waterville, Conn.

Samuel P. Tucker, boss carder in the Coheco Department of the Pacific Mill; Dover, N. H.

Hiram Whiting, for many years in charge of woolen mills in Blackstone and other places, and afterwards for 35 years with the Rays at North Bellingham; Franklin, Mass.

William M. Horrocks, senior member of Horrocks & Bro., Dyers, Bleachers and Finishers, also identified with the Frankford Hosiery Mills; Philadelphia.

The Growth of a Century.

The development of the art of weaving, from the days of the old hand loom to that of to-day and the Northrop Automatic Loom, is readily recognized when we take into consideration the crude methods and apparatus used in those days, as shown in the illustration,

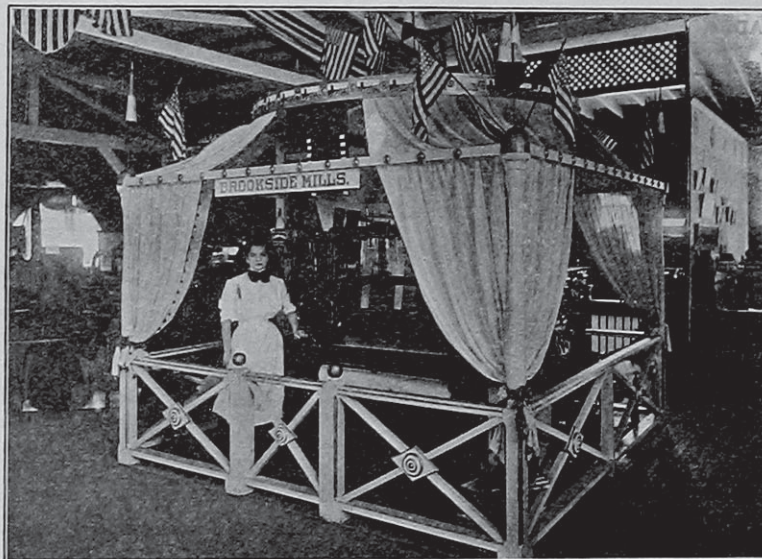


COPY 7-1010-M.H.GASS

which is a photograph of Mrs. Faust, an old lady 105 years of age. She, with her two children, shown also, lives at Andersonville, Tenn.; they still cling to their old spinning wheel, reel, hand loom, etc., weaving their cloth by hand.

In the other photograph, which was taken at the Appalachian Exposition, in Knoxville, Tenn., is shown a type of the Northrop Automatic Loom, built by the Draper Company, such as is in operation in the Brookside Mills of Knoxville, Tenn., and of which James Maynard is President.

By the introduction and operation of the Northrop Automatic Loom, one weaver can operate as many as 28 looms, depending on the class of work, with less trouble than he could operate one loom of the type shown in the photograph of Mrs. Faust and children.



ULRICH COMPANY
GENERAL MILL SUPPLIES
TEL.: Sub. 6 N. Y. & N. J., 295.
Ulrich Mill, PATERSON, N. J.

Reeds, Harnesses, Lingoes, Shuttles,
Mails, Quills and Ribbon Blocks.
Wire and Reed Eye Heddles and Baked Harnesses.
Wire Heddle Frames, specially for Fancy and all kinds of Doup Harnesses.

Woonsocket Speeders Lead



Woonsocket Machine and Press Company
WOONSOCKET, R. I.

Builders of Cotton and Woolen Machinery

Southern Agent: J. H. MAYES, Charlotte, N. C.

GRAN-CARB-SODA

THE HIGHEST GRADE OF
SODA CRYSTALS MADE

"The Best is Good Enough."

THE HOLBROOK MFG. CO.

Coles & 18th Streets
JERSEY CITY, N. J

MILL SOAPS

Fast Colors for Cotton and Wool
Helindone Colors
Indigo M L B

H. A. METZ & CO.

New York, 122 Hudson Street

Boston, 140-142 Oliver St. Philadelphia, 104 Chestnut St.
Providence, 23 S. Main St. Chicago, 317 N. Clark St.
Charlotte, 210 S. Tryon St. Atlanta, 1418 Empire Bldg.
San Francisco, 580-582 Howard St. Montreal, 30 St. Francois Xavier
Laboratories: Newark, N. J. [St.]

SOLE AGENTS IN U. S. AND CANADA FOR
Farbwerke vorm. Meister, Lucius & Bruening

Boston. Providence. Philadelphia. Chicago. Charlotte. Albany. Toronto, Can.

FARBENFABRIKEN OF ELBERFELD CO.,

IMPORTERS OF ANILINE & ALIZARINE COLORS

P. O. Box 2162

NEW YORK

117 Hudson Street

New England Butt Co.

Providence, R. I.

Braiding Machinery, both American and German types, for making Dress Braids, Shoe and Corset Laces, Underwear, Trimmings, and all kinds of Round and Flat Braids.

INTRODUCTION TO AMERICAN KNITTERS OF THE
Wilcomb Spring Needle Knitting Machine
THE WONDER OF EUROPE

For Underwear, Balbriggan, Rubber
Linings, Stockinette, etc.

Diameters up to 24"

Gauges up to 24 Needles per inch

Six to Sixteen Feeds

Fabric equal to finest French Webbing

Unequalled Production

Extreme Simplicity

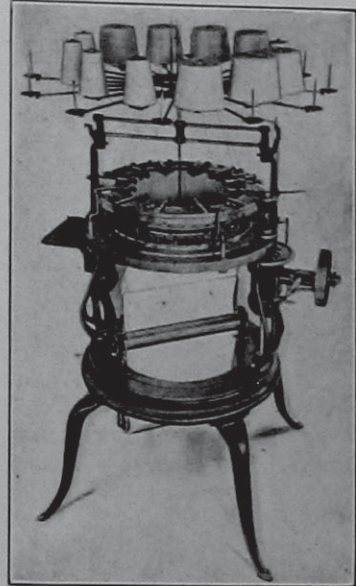
Low Operating Costs

Machine Self Contained

If you are interested in producing better fabrics at lower costs than from your present equipment, or want to take on higher class lines than you can now produce, you should acquaint yourself with this machine.

SEND FOR SAMPLE WEBBING

WILCOMB MACHINE COMPANY :: Norristown, Pa.



H. W. Butterworth & Sons Co.

PHILADELPHIA, PA.

PROVIDENCE OFFICE:

Room 417, Industrial Trust Building

SOUTHERN AGENT:

A. H. WASHBURN, Charlotte, N. C.

BLEACHING

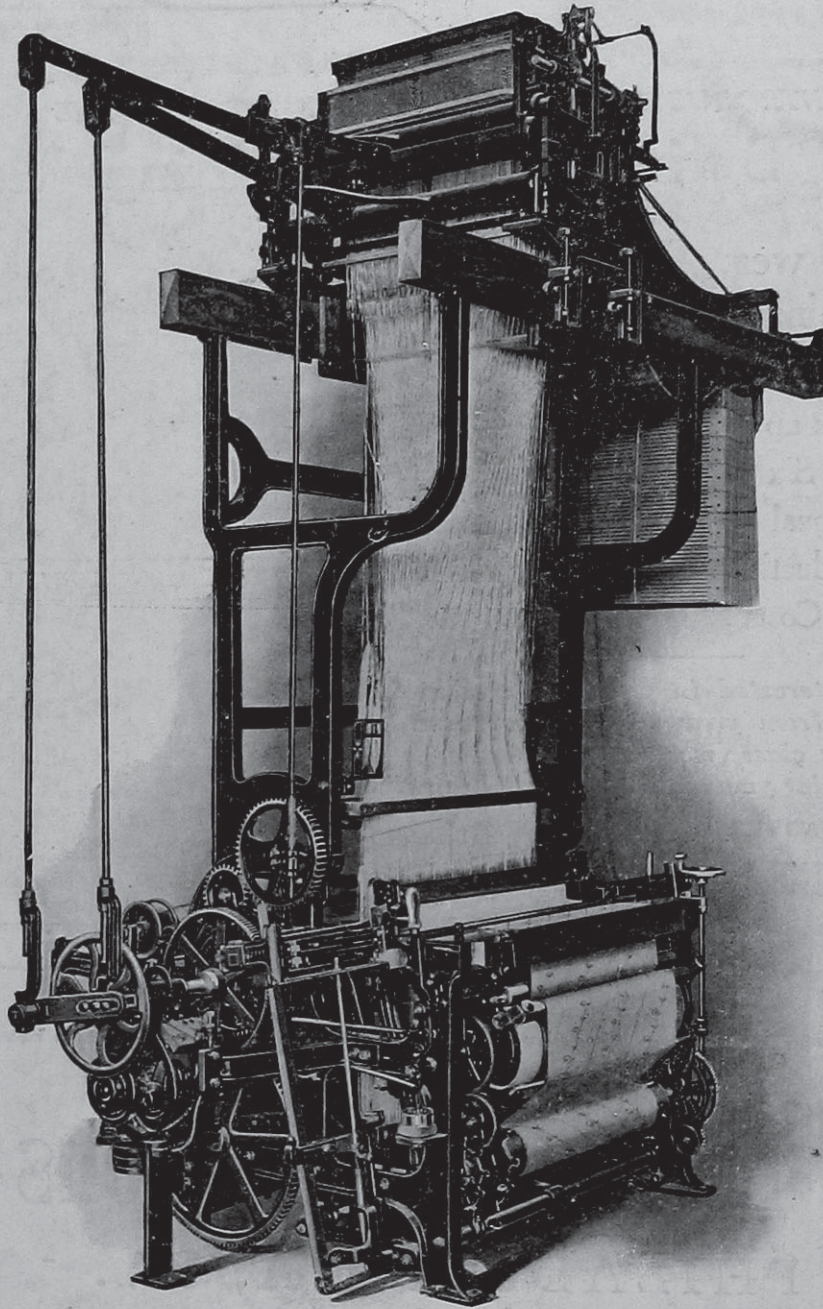
DYEING

DRYING

AND

FINISHING MACHINERY

FOR TEXTILE FABRICS



C. & K. JACQUARD SILK LOOM WITH MOTOR DRIVE

THE combined efforts of our experienced builders are directed toward a steady advancement year after year in all our varieties of weaving machinery. We want you to expect the best in every machine bearing our name.

CROMPTON & KNOWLES LOOM WORKS

WORCESTER

PROVIDENCE

PHILADELPHIA