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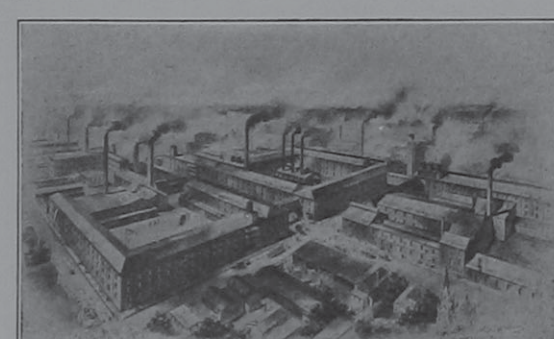
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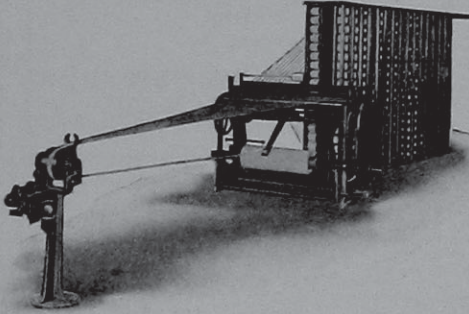
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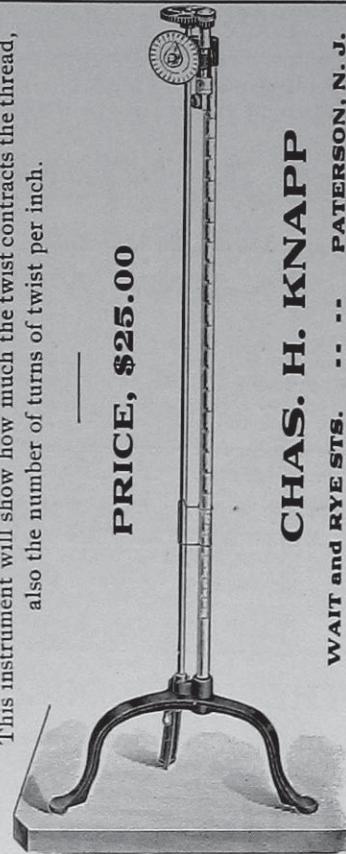
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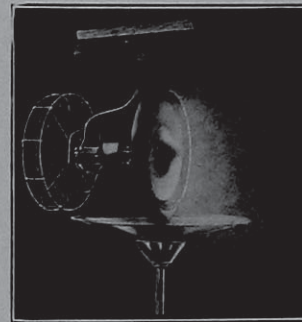
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higher; the principle was, however, the same. At that time no artificial indigo was on the market, and it seemed therefore of interest to try the process on this product, and to compare the results obtained by those furnished by the methods of Möhlau and Zimmermann and of Bloxam. The following results were obtained on three different commercial samples of the artificial product. The percentages indicate the amounts of indigotine found.

	Möhlau. (TiCl ₃). Per Cent.	Bloxam. (TiCl ₃). Per Cent.	H ₂ SO ₄ Method. (TiCl ₃). Per Cent.
Artificial indigo powder I...	94.80	94.33	94.73
" " II...	91.80	91.70	91.48
" " Paste	20.30	20.57	20.60

The indigo powder No. 1 contained 4.21%, No. 2, 4.30%, and the paste 87.38% of moisture at 230 deg. F. It would thus appear that the process is also applicable to the analysis of artificial indigos.

Some further results on natural indigos are appended below, given simply to show that with these the process works equally well. In all cases the titrations were done with TiCl₃.

	Grossmann. Per Cent.	Bloxam Per Cent.	H ₂ SO ₄ Method. Per Cent.
Natural Indigo I..	48.22	48.57	48.70
" " II..	55.97	—	55.45
Fig Indigo	12.74	Not satisfactory	12.77

Drugs Used by the Dyer.

By A. Loeffler.

The drugs used by the Dyers are divided into three groups, viz.:

- (1) Chemicals generally,
- (2) Mordants,
- (3) Dyestuffs.

This division, based on the practical application of the materials in question, is not correct from a practical point of view.

Take for instance *Chrome*, which is generally called a mordant, but which acts as a dyestuff in the production of *Chrome Yellow*, again it might also be classed among chemicals, on account of it being used as an oxidizing agent, etc.

It is still more difficult to give theoretically a definition of the three groups.

Under chemicals will be understood, those materials which are employed in the preparing of the goods before dyeing, for instance, for bleaching, as well as such materials as are required during the processes of dyeing and finishing, without the coloring part of the color, either entirely or in part.

Mordants. This name is derived from the French name *modre* (to corrode) because the early French dyers believed that the utility of the metallic salts they

employed consisted of their corrosive nature; it was believed that these substances opened the pores of the fibre, and thus rendered them more capable of absorbing the dyestuff.

At a late period it was recognized that the so-called mordants enter into a chemical combination with the dyestuffs and formed insoluble compounds or color lakes, hence the substances were considered principally as fixing agents for the dyestuff.

In many cases this is true; however there are dyestuffs which dye without the aid of a mordant but become faster to the washing and fulling by the application of the mordants. Again in some instances the mordant is an essential constituent of the colors, since without it no color at all, or only a worthless shade is produced. For instance Chrome colors (in general) and where minus Chrome only a worthless, or no shade at all would result.

We consider as mordants, substances which partly or wholly combine with the dyestuffs to form definite compounds in the fibre, thus distinguishing them from those chemicals which take part in the dyeing process without entering into the color.

STERLING SOFTENER.

After a long series of experiments, the *National Soap Mfg. Co.* have produced *Sterling Softener*, an unexcelled product for softening cotton goods of any description.

Sterling Softener is a combination of Oils which are beneficial to cotton goods and will produce the soft lustre which is so much sought for by Manufacturers of Cotton Goods.

Finishers desiring to give *Sterling Softener* a trial, can get full information from the Manufacturers.

WATERPROOFING AND DYEING. This is a late English invention by A. Hart, of Chelsea, and has for its object to simultaneously waterproof and dye textile fabrics. The waterproofing material is composed of a mixture of 1 lb. gum tragacanth worked into a paste with an equal amount of water, added to 3 lb. casein, also previously made into a smooth paste with water. One pint sweet oil and ½ pint caustic soda 17 deg. Tw. are added to the compound. A dry pigment powder is then added to the mixture. The pigment powder is obtained by boiling a cheap pigment for an hour and drying the residue. The goods to be waterproofed are passed through the above prepared bath, squeezed through rollers, afterwards treated in a bath containing 15% alum, and then passed through a rinsing bath of clean water and dried. The pigment can be omitted if it is not desirable to dye the goods.

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Machine Dyed Silk Yarns.

Silk Manufacturers, with the exception of those who dye their own Yarns, are not aware of the waste that is made by the ordinary methods of dyeing silk.

There are certain types of Machines upon the market for Silk Skein Dyeing, the Klauder-Weldon Machine being the best known which keeps the skeins distended during the dyeing process, and which avoids the tendency to cross and tangle.

The Klauder-Weldon Dyeing Machine Co., guarantee that Silk Skein dyed in their Machines will reel with about 20% less waste than skeins dyed in the old-fashioned hand kettles.

With these facts in view, it should seem reasonable that Manufacturers who use skein silk, would insist that it should be dyed by these improved and economical methods.

Farmers' Union Condemns Blending of Sea Island and Upland.

The Farmers' Union of Lowndes County has taken high ground against the practice of mixing Sea Island and upland cotton, the practice having been adopted by some parties who did not seem to realize the wrong in it.

By planting mixed seed some farmers imagine that they will be able to make short staple cotton bring long staple prices. The cost of production is, of course, less, and if the yield of the mixed cotton were as great as that of short cotton there might be some advantage in mixing it. Many farmers realize that by mixing the seed a poorer staple is secured, and that Lowndes County cotton, which ranks high, suffers among the buyers.

Besides that different kinds of gins are used for ginning the two staples.

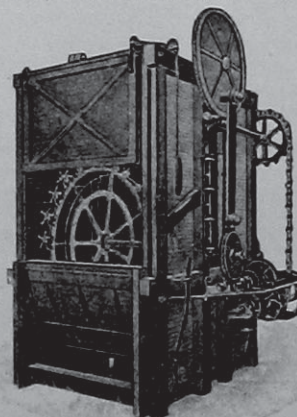
FORMIC ACID. The employment of formic acid as an assistant in dyeing, is said to offer considerable advantages over sulphuric and acetic acids. In carrying out a series of experiments, Rusby states that when treating mixed fabrics of wool and cotton, the advantages claimed—better levelling properties, brighter shades, and more complete penetration—certainly make themselves evident, and there is also not the risk of tendering the cotton as when sulphuric acid is employed. In the dyeing of wool and cotton, where it is desired that the cotton should remain white, formic acid is not as recommendable as sulphuric acid, which gives most perfect whites, but in all cases it is superior to acetic acid.

20 PER CENT. SAVED

Silk manufacturers should realize the economies in dyeing obtained by the use of the Klauder-Weldon Silk Skein Dyeing Machines.

Fully twenty per cent. in the waste produced in winding, besides seconds in weaving, is saved by their use.

These are facts. Once perceived by the silk manufacturers, they will require their dyers to use these machines.



Simple to operate and are made of the best materials and by the best skilled labor.

Will handle fine tram or skein singles without any damage to the fibers.

SILK SKEIN DYEING MACHINE

These machines will do perfect work on all qualities and colors of silk, both reel and spun.

Made in sizes to dye from 25 to 200 pounds per batch.

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"Progress and Profit for Mill Men," is the title of a new book written and published by Henry D. Martin, of Clinton, Mass., the Author of "Successful Management of Cotton Mills," as well as a member of the National Association of Cotton Manufacturers.

This book is intended for all classes of mill men who want to show better results to their principals, and rise thereby. Manufacturing plants require men who not only know the processes, but men who also know how to economize; those who can spend money wisely; take good care of machinery; properly hire help and prudently manage them. This book shows how the young man may grow in this direction, and the man higher in authority will also find many reminders that may strengthen his usefulness to this plant, to the help, and to himself.

The book is published at the popular price of \$1, and can be ordered either by addressing the Author and Publisher, Mr. Henry D. Martin, or any Book Store dealing in Technical Books.

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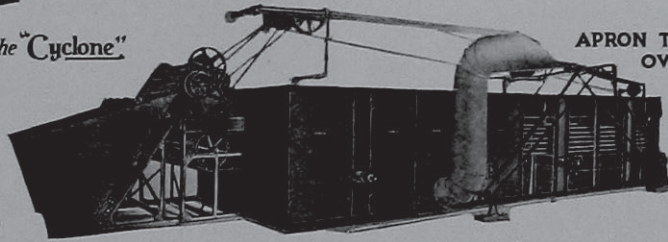
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Wanted.—Designer for shaft work for large Tie Silk Plant. Experienced man. Address (217) care of Posselt's Textile Journal.

Wanted.—Young man with knowledge of Knitting, to assist Importer of Knitting Machinery with sales. Must be willing to travel, and able to approach Manufacturers. Address E. O. (218) care of Posselt's Textile Journal.

Boss Weaver or Designer.—Now with a large New England Mill; has had five years' practical experience. Will go anywhere. Address A. F. (219) care of Posselt's Textile Journal.

Ass't Superintendent.—Thoroughly experienced man of 40 years of age wants position in Silk Ribbon Mill. Will go anywhere. Address W. F. (223) care of Posselt's Textile Journal.

MILL NEWS

Philadelphia, Pa. Schofield, Mason & Co., who operate the Delaware Carpet Mill, will add two additional stories to their plant at a cost of \$17,500. They manufacture Wilton and Brussels carpets and rugs.

John W. Snowden, who directed the affairs of the New York office of the Stead & Miller Company, has been called to the mills at Philadelphia, where he has assumed the duties formerly performed by Theodore M. Hillsley (deceased). Mr. Snowden has been elected vice-president and general manager of the company, and in addition to the duties of this office, will look after the local trade in Philadelphia.

Work has been started on the erection of an addition to Ivins, Dietz & Metzger's plant. The new mill will consist of three buildings, one of which will be L shape, having a frontage of 105 feet on Seventh Street and 184 feet 10 inches on Huntingdon Street. This building will have five stories and basement, and be of re-inforced concrete construction, with brick walls and slag roofing. The other two buildings, which will face Marshall Street, will consist of a three-story dye house with a frontage of 161 by 49 feet, and the other, a building five stories high

with 101 feet frontage by 49 feet 6 inches in depth.

The National Tapestry Mills, of 1543 Ruan Street, Frankford, are being removed to the O'Neill mill, at Oxford and Josephine Streets.

N. K. Regar, formerly of Regar & Oughton, Upholstery Manufacturers, has organized the N. K. Regar Manufacturing Company, and taken a mill at Boston and Coral Streets, Kensington, where he will engage in the manufacture of worsted cloth for men's clothing. His partner, Mr. Oughton, has also gone into the manufacture of this line of goods in the Diana Mills, Frankford.

Frederick Metz, formerly superintendent of the Oldham Upholstery Mills, Philadelphia, has organized the F. Metz Company, with a capital of \$50,000, to engage in the manufacture of silk ribbons at Second Street and Allegheny Avenue. Mr. Metz will act as president, treasurer and manager of the new corporation.

Arthur Jones, manufacturer of Smyrna rugs, Jasper and Tioga Streets, is erecting a two-story brick addition to his plant, 40 by 36 feet, at an estimated cost of \$4,000.

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Robert Carson & Sons, Trenton Avenue and Huntingdon Street, Philadelphia, have awarded a contract for a four-story and basement mill, 60 by 100 feet, to cost \$45,000.

Dorrancton, Pa. Ground has been broken on Ely Street for a new Silk Throwing Mill to be operated by a Paterson company. The new concern is capitalized at \$125,000 and nearly all the stock is sold. Three buildings will be erected. The main structure is to be 87 feet wide and 205 feet in length. The boiler house will be 44 by 39 feet, while the engine house will be 40 by 45 feet. The buildings are to be completed by September 1 and the machinery to be installed therein at once.

Easton, Pa. The incorporators of the new Girard Silk Company are M. D. Clader, John B. Smith, M. L. Dreisbach, T. Floyd McPherson and Henry McKeen, Jr. The company's plant is at present in the American Flag Building on Church Street, but it will be shortly moved to larger quarters on Wilkes-Barre street.

Forest City, Pa. The Klots Throwing Company, who own the big silk mill at Simpson, are going to erect one of similar dimensions here.

Hamburg, Pa. The Hamburg silk mills have resumed operations under the superintendency of Mr. L. D. Madeira, one of the most widely known silk experts.

The large extensions to the Hamburg knitting mills and bleachery are nearly completed. The plant doubles its capacity besides bleaching its own products.

Hasleton, Pa. Work has been started on the addition to the plant of the Duplan Silk Co. The new building will be 77 by 59 feet, one story in height. Mr. W. C. Muggli is the Superintendent of the mills, which are running now 450 broad looms on piece dyed silks and silk mixtures.

Leighton, Pa. The Carbon Silk Mill, Silk Throwsters, are so rushed with work that it is reported they are looking for a suitable location to erect a new mill.

Norristown, Pa. James Lees & Co., the prominent woolen manufacturers of this place, have awarded contracts for a large and modern mill, work on which has been started. The building will be 202 by 79½ feet, and five stories high. Machinery in the new mill will be running by December; 150 operatives will find work.

Patton, Pa. Orders at the silk mill are keeping Mr. Morgan, the Superintendent, at the jump, having made it

necessary for him to install new machinery.

Slatington, Pa. Whitehead & Co.'s silk mill started operations June 14th.

Temple, Pa. Seidel Brothers, of the Maiden Creek Hosiery Company, being rushed with orders, are enlarging their mill. The foundation has been finished and the brick work started.

Vera Cruz, Pa. Clerk of Orphans' Court, Amandes R. Schuler, of this place, has organized a company known as the Vera Cruz Silk Co. The other incorporators are Francis Kline and William F. Stahler.

Wilkesbarre, Pa. The plant of the Leon-Fahrenbach Silk Co., situated on Jones street, near Hazle, is ready for operation, all the machinery having been installed; 150 operatives have found employment. The main building of the new concern is 500 by 200 feet, two floors and basement. The power and boiler departments are embraced in a separate detached brick building and the plant is one of the most completely equipped in the country.

Garfield, N. J. The new building of the New Jersey Worsted Spinning Company will have a floor space of 124,800 square feet and will be 260 by 480 feet. It will be one-story high, with a saw-tooth roof.

Hohokus, N. J. The Dale Brook Bleachery has been leased to the Hohokus Bleachery, which will operate the plant upon khaki, butcher linen, specialties in general, and will continue the finishing of clay-filled work.

Orange, N. J. A silk mill, that will employ between eighty and ninety operatives, is to be started here by Frost & Van Riper, of Paterson. They have rented the new Butterfield building in the rear of 19 Day street.

Paterson, N. J. Mr. A. H. Robertson, years ago a student of E. A. Possett, has taken charge as Manager of the Plant of Messrs. Jas. McCurrach & Brother, of this place and New York City. They manufacture Tie Silks and Mufflers.

Ribbon and narrow fabrics are to be manufactured by the Manhattan Ribbon Company, a new concern incorporated with a capitalization of \$50,000.

The Ray Ribbon Company has been incorporated, the same will engage in the manufacture of ribbons, etc.

The Staple Silk Company has been incorporated with a capital stock of \$50,000.

Phillipsburg, N. J. It is rumored that the Standard Silk Company has plans

nearly completed for the erection of a large addition to its plant. The new addition will extend the entire length of the present mill on the north and east, and when completed, will provide room for 200 new looms, making it one of the largest silk mills in the country.

St. Johnsville, N. Y. The Royal Gem Company is erecting additional buildings to be able to double its output in women's and misses' ribbed cotton underwear.

Utica, N. Y. The Utica Steam and Mohawk Valley Cotton Company has had plans prepared for an addition to the mill on State street. The new building will be of brick and will be located on the Court street side. It will take in the L which was formerly used as a cloth room. The exterior length will be about 160 feet and the width 80 feet. There will be four stories. The new addition will be equipped with broad looms and will supplement the big mill with which it will be connected.

Boston. The directors of the Ipswich Mills have decided to increase the capital stock by \$100,000, in order to provide the necessary funds to acquire the Gilmanton Mills.

Clinton, Mass. The new mill of the Bigelow Carpet Company, to be erected here, will be 300 feet long and five stories high.

Franklin, Mass. The Franklin Felt Co., has been organized with a capital of \$80,000. The new concern has plans under consideration for the erection of a new mill on what is known as the Fisher farm, the property of Mr. Hayward, the President of the new concern.

Lawrence, Mass. The plants of the United States Worsted Company and which includes the Iroquois mills at Saugus, the Lawrence Dye Works, the Musketaquid mills of Lowell and the Tinkham mills at Harrisville, R. I., are to run day and night, to keep up with the orders, of which sufficient are on hand to tax the capacity of all the mills of the company till fall. Mr. James P. Barnes is the Head Designer of the concern, with offices at 100 Fifth avenue, New York. He was a student of E. A. Possett in 1888.

Lowell, Mass. At least 300 hands will be added to the 3,500 already employed by the Merrimack Manufacturing Company, Lowell's largest cotton mill, upon the completion of a new weave shed, the proposed construction of which is announced. The building will be 174 feet long and 154 feet wide, with two stories and a high studded basement.

(Continued on page xviii)

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, Orchil; 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; Boiling 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, Worsteds, Trouserines, 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.
- Chemistry of Dye-Stuffs**, by G. von Georgievics. Price \$4.50.
A textbook presenting to the student in as condensed a form as possible the extremely wide domain of the modern chemistry of dye-stuffs, bringing into prominence all the relations known to subsist between the various dyes and groups of dyes, as well as the connection between color and constitution, since the proper appreciation of these relations forms the main object of color chemistry.
- 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. Vickerman. 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.
- Cotton Spinning**, by T. Thornley. 3 Volumes. Price \$6.50.
A Complete Self-Instructor (with Questions and Answers) on this subject, treating machinery and processes as used abroad.

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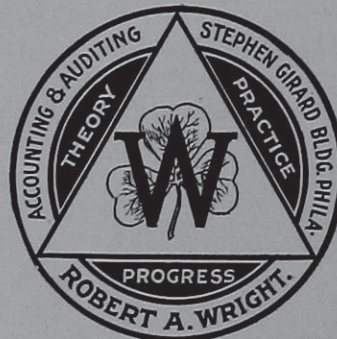
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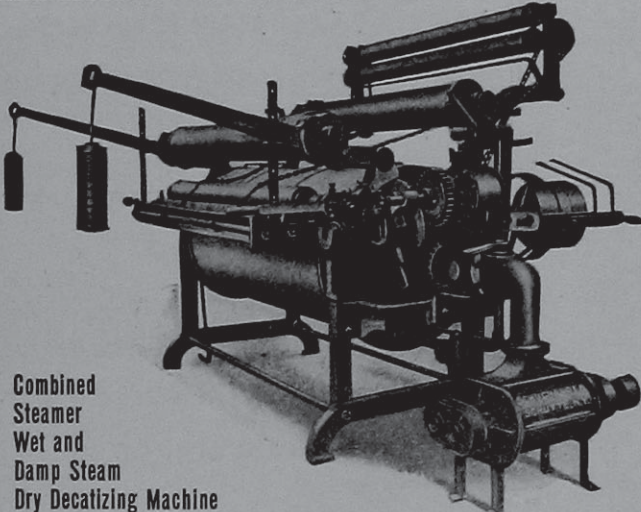
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Milbury, Mass. With a full force of 45 hands, the new branch of the Uxbridge Worsted Company, recently established here, began work June 14. The plant contains 18 looms, producing worsteds.

New Bedford, Mass. Plans for the new cotton mill of the Pierce interests, to be erected at the corner of County and Sawyer streets, have been filed. The spinning mill will be 191 feet by 354 feet, and three stories high. The card room, to be attached to the spinning mill, will be 97 feet by 102, one story high. The weave shed will be 243 feet by 300 feet, one story and basement, and the picker house, a part of which will be used as a cotton store house, will be 53 feet by 196 feet, four and five stories high.

North Brookfield, Mass. Twenty-six new looms, including twelve jacquards,

have been added by the Oxford Linen Mills. The equipment will be further augmented by thirty-eight looms, which will arrive shortly. The number of spindles, also, has been practically doubled, while four new cloth bleaching machines have enlarged the bleachhouse department.

Salem, Mass. The Naumkeag Steam Cotton Company has purchased the Danvers Bleachery property in Peabody, which was established as far back as 1847, and employs about 400 hands. The purchasers have been their largest customers.


Saugus, Mass. Three carloads of new looms are being installed in the old Saugus Manufacturing Co.'s plant, recently taken over by the United States Worsted Co., and is now known as the Iroquois Mills. Work on the new four-

story addition to the mills is completed and 100 looms are in operation.

Stoughton, Mass. The two-story addition to the Stoughton Woolen Mills, West Stoughton, is about completed. The new structure, which is 120 by 65 feet, will enable the company to move some of its old machinery and install twelve new sets of cards, two pickers and some additional carbonizing machinery. The present carbonizing plant has a capacity of 60,000 pounds of stock, and this amount will be increased to 85,000 pounds. It is expected that the machinery in the new addition will be in operation about August 1.

Taunton, Mass. The New England Cotton Yarn Co. will install about 12,000 additional spindles, either in its Canoe River or Cohannet Mill. A rearrangement of machinery is to make room for the new machinery.

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Worcester, Mass. Plans for the enlargement of the Lyon Carpet Company's mill have been completed. Twenty new looms will be installed, and a large addition will be built to the present building.

Pawtucket, R. I. The Lorraine Mfg. Co. is to build a \$1,500,000 addition to its cotton mill, which, when completed, will give employment to about two thousand additional operatives. The company now employs 1,300 persons.

Woonsocket, R. I. Work on the addition to the Lafayette Worsted Company's plant has begun. The new building, which will be a duplicate of the main mill, will be 109 by 174 feet, four stories high and constructed of brick. Employment will be given to about 400 additional hands upon the completion of the new structure. Mr. Henry Dursin is the Agent of this progressive concern.

The Reeves Spinning Company has been incorporated by Frank B. Jeffers, L. B. Benoit and William W. Bearman. The capital stock is \$100,000. The company will manufacture linens and other textiles. The plant is located on Pond street.

Meriden, Conn. The Union Braid Co. is the name of a new concern just incorporated here with a capital stock of \$20,000. The concern, it is rumored, has purchased the Cherniack Braid Company's plant at Mechanic and George streets and will begin manufacturing there.

Norwich, Conn. It is reported that the Westerly (R. I.) Silk Mill Company will remove its plant to this city and occupy the industrial building at the corner of Franklin and Chestnut streets.

The company will immediately equip the plant and employ about 75 operatives at the start.

South Norwalk, Conn. The Fibre Products Company of New York has a lease of the plant at East Norwalk, formerly occupied by the Colonial Foundry Company, for two years, with an option of purchase. The fibre company, whose product is made from Chinese grass, and is used as a base for various kinds of cloth, has assumed possession of the plant and will thoroughly equip it. 200 operatives will find employment.

Dover, N. H. It is rumored that the Pacific Mills of Lawrence, which recently acquired the Cocheco, are to invest \$2,000,000 in building a large cotton mill.

Lewiston, Me. Construction on the new factory for the Hill Mfg. Co. has been started. The new building is to be six stories, brick, 160 by 75 feet. The building of this addition will increase the capacity about 20,000 spindles and give employment to 400 more hands. It represents an outlay of about \$300,000.

Sanford, Me. The weaving capacity of the Goodall Worsted Company is to be extended by the addition of a branch mill at Kennebunk.

Bennington, Vt. Work has been started on a stone and concrete addition by the Holden-Leonard Company. The dimensions of the new building will be 96 by 123 feet, and it is planned to install enough machinery to double the capacity of the plant. Mr. Frank B. Carver is the successful manager of this mill.

Martinsville, Va. The Martinsville Cotton Mill Co., has recently been in-

corporated with a capital stock of \$200,000. 16,000 spindles, 400 looms, etc., will be installed in the building, which is already erected.

Roanoke, Va. F. J. L. Ammen has purchased the knitting mill of this place.

Winchester, Va. The Virginia Woolen Company has begun construction of addition reported last month, three stories high, 32 by 100 feet, costing \$4,000; there will be installed woolen machinery and electric motors for 50 horse-power at cost of \$8,000. The company is now operating 2,880 spindles, 40 looms. Mr. F. S. Hunt is the successful Superintendent of the mills. He was a student of E. A. Posselt in 1889-1900.

Nashville, Tenn. The Nashville Woolen Mills are installing new broad looms in place of their old narrow looms at an expense of about \$10,000.

The Hartford Hosiery Mills, of this place, has been incorporated with a capital stock of \$100,000.

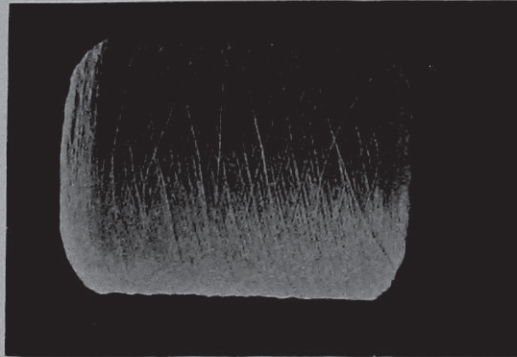
Rockwood, Tenn. The Rockwood Mills have increased their capital stock by \$25,000, to build a 60 by 200-foot addition to be equipped with machinery for increasing the company's daily output to 1,000 dozen pairs of hosiery.

Albemarle, N. C. Extensive additions will be made to the Wiscasset and the Efrid Mills. The first will get an addition of 300 by 100 feet, the other an addition of 350 by 100 feet.

Apex, N. C. The Apex Knitting Mill, of this city, of which W. H. Harward is president, has started business with a capital of \$15,000.

Bessemer City, N. C. The Huss Mfg. Co., which is running about 50 looms on

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table damask, is adding a spinning plant to provide the yarn.

Concord, N. C. The Kerr Bleachery and Finishing Works are now in operation, having been completed at an expense of \$150,000.

Cornelius, N. C. The new machinery for the finishing department of the Cornelius Cotton Mill has been installed.

Durham, N. C. The Markham-Harris Company, of this place, has been incorporated with a capital stock of \$10,000.

Hillsboro, N. C. The Bellview Mfg. Co. are starting up 200 new Crompton Knowles looms on fancy gingham.

Lincolnton, N. C. The Saxony Spinning Co., has been incorporated with a capital stock of \$100,000.

Edgar Love has engaged the well known Textile Engineer, Mr. Stuart W. Cramer, of Charlotte, N. C., to superintend the construction and completion of new cotton mill erected here.

Lumberton, N. C. The directors of the National Cotton Mills have decided to duplicate the number of spindles.

Monroe, N. C. The capital stock of the Icemorlee Cotton Mills Company has been increased from \$125,000 to \$300,000, in order to provide for its 75 by 350-foot building, also for the addition of 5,000 spindles to its No. 2 mill.

The four mills here will consume about 15,000 bales of cotton annually, about 12,000 bales are sold on the Monroe market.

Morrisville, N. C. Mr. Sam Horn, one of the wealthiest men of that section of the country, is soon to have in operation a big hosiery mill.

Roanoke Rapids, N. C. It is rumored that another important Southern cotton manufacturing enterprise is to be incorporated. The new concern is to be known as the Patterson Mills Co., and will have an equipment of 22,000 spindles and 750 looms, for manufacturing gingham; the entire plant to cost about \$650,000.

Warrenton, N. C. Charter has been granted to the Peck Manufacturing Company, of this place, to do a manufacturing business in cotton yarns and cloths. The capital stock is fixed at half a million dollars with \$111,600 paid in.

Winston, N. C. The project for a cotton mill here, headed by Mr. J. W. Cannon, of Concord, associated with Winston-Salem capitalists, is practically assured. It is reported that \$125,000 will be the paid-in capital stock to start with.

Camden, S. C. The Pine Creek Manufacturing Co., have added another floor above their machine shop to install 24 additional looms.

Fairmont, S. C. Great improvements are being made at the Fairmont Manufacturing Co., who will add 4,000 spindles and replace 256 looms with 300 new ones.

Gaffney, S. C. The capital of the Gaffney Mfg. Co. has been increased to \$200,000, in order to build an addition to their plant.

Goldville, S. C. It is announced that the Banna Mills, of this place, are to double their capacity.

Graniteville, S. C. The stock of the Graniteville Mfg. Co. has been increased to \$1,000,000, and the concern will begin the erection of another mill.

It is rumored that the Vaucluse mill will double the capacity of its plant.

Greenville, S. C. The Cotton Mills of this city paid (July 1st) over a quarter of a million dollars, in half annual dividends to stockholders.

Laurens, S. C. The Laurens Cotton Mills are erecting an 80-foot addition to their present building.

Spartanburg, S. C. Cotton Mills of this place and the Banks paid July 1st \$350,000 in half annual dividends; the bulk of this amount coming from the cotton mills.

It is rumored that the stock of Arcadia Mill has been increased to \$400,000, in order to enlarge their plant to accommodate 10,000 additional spindles and 260 new looms.

Work has been started at the Beaumont Mfg. Co., to permit them to increase their equipment to 34,500 spindles and 600 looms.

Albany, Ga. The Albany Cotton Mills, which have been recently organized with a capital stock of \$250,000, will erect buildings to accommodate 10,800 spindles and 280 looms. The output of the concern will be print cloth.

Athens, Ga. J. W. Ingle and J. T. Jordan, of this city, have begun erecting a \$50,000 cotton mill here.

Atlanta, Ga. The Atlanta Loom Reed Company has been incorporated by Robert Andrews. Capital, \$25,000.

College Park, Ga. The new machinery for the Gate City Mills, which will increase their capacity to 15,000 spindles, is complete, and will be installed soon.

Columbus, Ga. The Columbus Manufacturing Company, F. B. Gordon, President, will build an addition to their plant. The equipment of the plant will be increased from 30,000 to 50,000 spindles, and from 800 to 1,400 looms.

Douglasville, Ga. The capital stock of the Lois Cotton Mills will be increased from \$300,000 to \$500,000 in order to provide for enlargements of the plant.

Elberton, Ga. Application has been made for a new cotton mill in Elberton, to be capitalized at \$100,000. This corporation will purchase the Swift's Cotton Mills, and make them one of the best equipped cotton mills in the South.

Griffin, Ga. The Kincaid Cotton Mills, one of the largest Cotton Mills of this place, will increase their capacity to 70,000 spindles.

Hampton, Ga. The Hampton Cotton Mill is to double its capacity, installing 6,000 additional spindles and accompanying machinery; the investment calling for about \$800,000.

Summerville, Ga. It is rumored that the Summerville Cotton Mills, of which John D. Taylor is President, have decided to build an addition. The capital stock will be increased to \$300,000, which will be used to double the equipment of the plant.

Abbeville, Ala. It is rumored that the Abbeville Power & Mfg. Co., will erect a 20,000 spindle mill here, also a similar mill at Headland.

Anniston, Ala. Work has been started on the construction of the new addition to the Adelaide Mills, increasing the plant to a 10,000 spindle mill.

Montgomery, Ala. Mr. L. P. Devaughn, formerly with the Langley Mfg.

Co., has been appointed general manager of the Montala Mfg. Co., of this place, which has been recently incorporated with a capital of \$250,000.

Louisville, Ky. The Puritan Cordage Mills has purchased and improved a two-story building containing 30,000 square feet of floor space and an additional structure for storing 300 bales of cotton. It has expended \$60,000 for 2,000 spindles, rope machinery, braiders, finishing equipment, electric motors, etc., and will manufacture sash cord, cotton rope, cotton twine and clothes lines. About 150 operatives will be employed.

Bonham, Texas. The Bonham Cotton Mills is planning improvements amounting to \$35,000.

Cleveland, Ohio. Plans have been completed for another six story factory building for the Cleveland Worsted Mills Company.

Columbus, Ohio. The Massillon Worsted Mill Co., has been incorporated, with a capital stock of \$150,000.

Piqua, Ohio. The Orr Felt and Blanket Co., have started the erection of a new mill, which when fully equipped with machinery, will represent an investment of \$200,000. The output of this company is army blankets for the Government.

Fort Wayne, Ind. Dividends of 10 per cent. on the \$600,000 common stock and 6 per cent. on the \$400,000 preferred stock were declared at the annual meeting of the stockholders of the Wayne Knitting Mills, June 3d.

Mishawaka, Ind. The Dodge Manufacturing Company is in the midst of plant extension work at the factory in Mishawaka, Ind. The main or south machine shop is being enlarged by the erection of a large addition which when ready for occupancy will be a complete building in itself. The addition is 280 feet long and 122 feet wide, like the older portions of the shop, but the side bays will be higher to accommodate a second floor or gallery. The frame work of the structure is of steel, the supporting columns resting on concrete foundations. A cream brick is being used for the walls with metal sashes.

Light and ventilation are always big items in the Dodge buildings and the new one will contain 158 windows and two good sized doorways.

When the old shop is thrown into that under construction, the total length will be 585 feet on the crane runway in the center bay. Two electric traveling cranes, 25 tons and 10 tons respectively, will serve the main middle bay, where all machines are placed, and where all heavy work is done.

In the side bays several lighter electric cranes will handle the smaller work. The traveling cranes are of the Whiting and Niles types. They have a speed of 300 feet per minute and much time and labor is saved by their use in moving heavy products and placing them in cars which are brought directly into the plant for this purpose.

The top floor will be devoted to the production of Dodge split friction clutches, this department of the Dodge works being overcrowded by the continued growth of the business, even though at this time it covers a space of more than 12,000 square feet. Elevators will be used between the two floors for transportation.

