

R. AND T. CLAYTON, LIMITED.

Registered by R. Jordan, 130, Chancery-lane, with a capital of £10,000 in £100 shares. Object, to acquire any mill or mills at Rishton or elsewhere in England, and the using of the same for spinning, weaving, and finishing raw cotton, wool, silk, and flax. Every registered shareholder is qualified to act as a director. Remuneration to be determined, in general meeting.

THE HARGHER CLOUGH-ROOM AND POWER COMPANY LIMITED.

Registered by R. Jordan, 130, Chancery-lane W.C., with a capital of £15,000 in £10 shares. Object, to acquire the boiler-house and other buildings known as the Hargher Clough Shed at Habergham, Eaves, Lancs. J. C. Waddington, E. Heap, E. Jones, and T. Preston are the first directors. Qualification, 10 shares. Remuneration to be determined at general meeting.

THE SUMMERVALE MILL COMPANY, LIMITED.

Registered by Charles Double, 14, Serjeants'-inn, E.C., with a capital of £22,500, in £5 shares. Object, to acquire the cotton mill or factory known as the Summerhills Mill, at Bankside, Oldham. The first subscribers are:—

J. Smith, Fern Cote, Shaw	100
J. Bunting, 115, Union-street, Oldham	100
J. Blears, Sunny-bank, Swinton-park, Manchester	100
J. Waller, 42, Stock-lane, Oldham	100
J. Halliwell, Victoria Mill, Shaw	100
G. Brierley, 77, Rochdale-road, Shaw	100
J. Taylor, 21, Refuge-street, Shaw	100

There shall not be less than five nor more than seven directors. Qualification, 100 shares. The first are the above subscribers to the memorandum of association.

Gazette News.

ADJUDICATIONS.

Henry M. Charig, Shoreditch, London, woollen merchant.
Charles A. Heap, Grassmere, Birstwith, late Littlewood's Buildings, Huddersfield, woollen merchant.

RECEIVING ORDERS.

Henry Charig, Shoreditch, London, woollen merchant; London.
Boothroyd Wimpenny, Thongsbridge, woollen manufacturer, Huddersfield.
Ralph Smith, lately Lawrence-lane, Cheapside, London, woollen merchant; London.
Charles Heap, Littlewood's Buildings, Huddersfield, woollen merchant; York.

WINDING-UP NOTICES.

The International Cotton Seed Cleaning Co., Limited.

SCOTCH SEQUESTRATION.

M. Taylor and Co., engineers, shop and mill contractors, 9, Oswald-street, Glasgow.

PARTNERSHIPS DISSOLVED.

James Fletcher and Brothers, Enfield, Calliards, and Higher Shore, all in Rochdale, flannel manufacturers and finishers, and grease extractors.

Patents.

APPLICATIONS FOR PATENTS.

The names in italics within parentheses are those of Communicators of Inventions.

Where Complete Specification accompanies Application an asterisk is suffixed.

10TH FEBRUARY.

- 2,112. J. McFERRAN and J. B. PIRRIE, Green-edge, Carrickfergus. Wet spinning frames for flax or other fibres.*
- 2,121. S. FOX, 4, Clayton-square, Liverpool. Looms.
- 2,127. J. FARRAR, 3, Commercial-street, Halifax. Twisting and doubling yarns of wool and other fibre.
- 2,132. M. T. MARTIN, 76, Chancery-lane, London. Knitting machines.

11TH FEBRUARY.

- 2,183. H. MONIE and S. M. RUTNAGUE, 70, Deansgate, Manchester. Adjustable bearings for the flats of carding engines.

- 2,184. J. and W. H. ENTWISTLE, 40, St. John's-road, Manchester. Revolving flats for carding engines.
- 2,195. I. BRAITHWAITH, 6, Lord-street, Liverpool. Dyeing with indigo.
- 2,222. L. LINDLEY, 23, Southampton-buildings, Middlesex. Manufacture of lace and other fabrics.

12TH FEBRUARY.

- 2,254. A. HEIDLER, 70, Deansgate, Manchester. Knitting machines.
- 2,275. J. J. MASON, Wave Farm, Lincoln. Ventilated cycling hose.
- 2,301. L. ALLART, 47, Lincoln's Inn-fields, London. "Square motion" of Holden's wool combing machine.

13TH FEBRUARY.

- 2,315. J. SUNDERLAND, 8, Quality-court, London. Warp beaming machines.
- 2,316. J. AINSWORTH, 8, Quality-court, London. Looms.
- 2,318. W. KENYON, sen., W. KENYON, jun., G. H. KENYON, and E. KENYON, 1, St. James-square, Manchester. Endless driving bands or ropes, and connections for the same.
- 2,330. J. KOEPEL, 70, Market-street, Manchester. Bordered fabrics for ladies' skirts, &c.*
- 2,338. J. BOARDMAN and J. HIGGINSON. Treating or dyeing hats, &c., whereby they change colour with alteration in atmospheric conditions.
- 2,353. F. W. AMSDEN, the younger, and J. G. MAJOR, 68, Fleet-street, London. Plush imitation astrachan and like trimmings.
- 2,365. S. DAVIS and F. MOORE, 45, Southampton-buildings, London. Stockings and similar knitted articles.
- 2,373. J. H. FERNIE, 6, Bank-street, Manchester. Looms.
- 2,381. J. KOENIGSWERTHER, 46, Lincoln's Inn-fields, London. Dyeing skins, hairy skins, or fabrics.

14TH FEBRUARY.

- 2,411. T. INGHAM, 4, St. Ann's-square, Manchester. Dyeing cotton.
- 2,414. J. HALL, 301, Girdlington-road, Bradford. Drawing, roving, and spinning rollers.

15TH FEBRUARY.

- 2,431. L. RITCHIE and E. GRIBBON, 6½, Waring-street, Belfast. Handkerchief boxes.
- 2,439. J. V. EVES, 6, Bank-street, Manchester. Frames for spinning flax or other material.
- 2,499. H. H. LAKE, 45, Southampton-buildings, London. Soluble blue cotton dyestuff. (K. Oehler, Germany.)

SPECIFICATIONS PUBLISHED.

- 1888.
- 17,496. WHITEHEAD. Looms. 6d.
- 1889.
- 2,360. BRASIER and KNOWLES. Dye, ink, etc. 4d.
- 2,233. HEYS (DePierre). Looms. 6d.
- 4,662. WILSON and WILSON. Ring-spinning frames. 8d.
- 4,991. YATES. Dunging and soaping fabrics. 6d.
- 5,549. IMRAY (Farbuereke vorm. Meister Luctus and Bruning). Colouring matters. 6d.
- 5,776. TAYLOR and WARBURTON. Figured fabrics. 8d.
- 20,561. SHEPPARD. Washing Fullers' earth, etc. 6d.
- 20,715. DELAHUNTY. Dyeing, etc. machines. 8d.

SECOND EDITION.

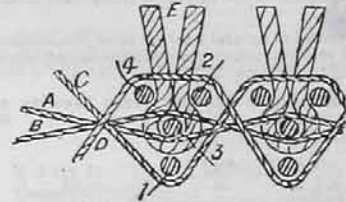
- 1888.
- 1,121. TWEEDALE, E. Flat carding engines. 11d.

ABSTRACTS OF SPECIFICATIONS.

- 11,973. August 18, 1887. Treating rhea, &c. G. F. REDFERN, 4, South-street, Finsbury.—(E. F. Spence; Rotterdam.)
The material is placed in boilers, being woven, etc., to warps of yarn and secured to laths which are wound round tubes fixed to the movable heads of the boilers, and extending to the bottoms. The boilers communicate with one another and with a filter-press, by means of a series of pipes. The liquid is first run into one boiler, and steam is admitted. The liquid is then forced through the filter into the other boiler, the cocks being opened. The liquid is next forced back to the first boiler, and the process is repeated, any extraneous matter being each time arrested by the filter. When the operation is completed, the covers with the material are lifted off. [8½d. Drawings.]
- 11,975. August 18, 1888. Spinning. J. B. G., and J. B. SWALES, Moorhey, Oldham.
Tube-applying apparatus.—Improvements on the invention described in Specification No. 15,780,

A.D. 1887. The cop tubes are prevented from falling out of the frame while the latter is being adjusted over the spindles by means of one or more hinged wires or plates, held in position by spring catches, several forms of which are described. Various modifications are described. [1s. 2d. Drawings.]

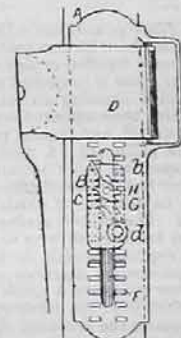
11,981. August 18, 1888. Tufted fabrics, and looms therefor. T. M. SOUTHWELL and T. W. HEAD, both of Bridgenorth, Salop.



Fabrics.—Moquette, or Royal Axminster goods are woven, as shown, with the tufting threads E bound in by a middle shot 3 and two face shots 2, 4, with or without a back shot 1. The binding and dead warps are shown at C, D and A, B.
Looms.—The tappets for operating the healds are loose on the tappet shaft, and are driven therefrom at half speed. [8½d.]

11,990. August 20th, 1888. Looms. T. KENDRICK, Sarnia, Ontario, Canada.

Picking-straps, attaching to sticks.—The strap D is threaded through the eyelet C of a slotted plate B capable of sliding along the stick A. The plate is fixed in position by a plate G formed with teeth or pins taking into a rack F on or into holes in the plate B, a bolt H with a winged nut b passing through the two plates and through the stick. A detent d gears with a ratchet c and prevents the nut from working loose. [6½d.]



11,996. August 20, 1888. Drawing frames. E. NICHOLSON, 3, Apple Terrace, Bolton.

Stop-motions.—The slivers are passed through apertures in a balanced detector-plate pivoted on an axle which also carries a hook for engaging, when a sliver breaks, or knots, &c., occur therein, with the end of a vibrating arm, stopping the machine. If desired, separate balanced plates and hooks may be provided for each sliver. [6½d. Drawings.]

12,035. August 21, 1888. Carding engines. J. THOMPSON and T. BARKER, Phoenix Works, Manchester.

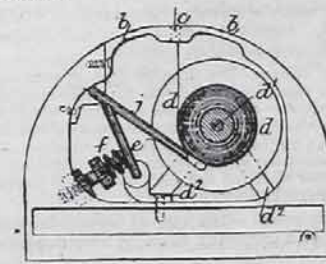
Grinding flats.—In order to allow for the bending of the flats, the wires thereof are ground lower in the middle than towards the ends by means of a barrel-shaped grinding roller, or of a disc or narrow roller suitably guided in its traverse. [6½d. Drawings to Specification.]

12,045. August 21, 1888. Cleansing Composition. L. GRAYE, 21, John-street West, London, S.E.

The composition (especially applicable for coloured fabrics) consists of an infusion of the soap-berry tree ("Sapindus") to which is added one-fifth part of ammonia and a small proportion of borax. [4½d.]

12,047. August 21, 1888. Hair fabric. W. S. LAYCOCK, Ranmoor, Sheffield.
Hair fabric for seatings, matting, carpeting, and the like is formed with a felt backing which is attached thereto by felting or sewing, or by an adhesive. [4½d.]

12,059. August 21, 1888. Looms. T. COOPER and W. TEW, both of Belle Vue-street, West Gorton, near Manchester.

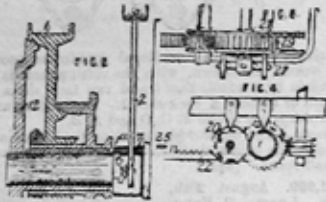


Shuttles of smallweave looms.—The wide flanged bobbin *d* is mounted on a vertical pin or axis *d*¹ rising from a bracket *d*². The eye *c* is supported in a metal bridge piece *b* extending from side to side of the shuttle. Drag is applied by an adjustable spring *f* acting on an arm *e* bearing against a second arm *j* which presses on the web; or a clip pressed by a spring against the bobbin flange may be employed. *Patent opposed. Case not yet decided.* [6*d.*]

12,096. August 22, 1888. **Material for clothing, bandages, &c.** J. H. HAYWOOD, Castle Gate, Nottingham.

Composed of natural wool, or other like substance, placed between two or more thicknesses of lace net or open-work fabric. [4*d.*]

12,100. August 22, 1888. **Yarn beaming and sizing machines.** W. LANCASTER, Willow Iron Works, Accrington.



Beaming machines.—The beam and nip rollers are driven from friction pulleys 1, 12 (Fig. 2), which are pressed together or separated by a weighted lever 2. The latter is controlled by the treadle, and carries a stud 6 entering an inclined groove in a collar 7 which bears against the part 1a when the machine is started, and thereby presses the pulley 1 against the pulley 12. A modification is described. The measuring roller imparts motion through worm, spur and pin-wheel gearing to a star wheel 20 (Fig. 4) on the axle of which is a tooth operating a rack 22. The latter is graduated, and is set to operate the knocking-off lever 25, to stop the machine when a required length is beamed. The Provisional Specification describes an arrangement in which a lever falls into a notch in a graduated plate-wheel driven from the measuring roller, and thereupon operates the knocking-off lever. The arrangements are applicable for indexing the lengths of the pieces on the tape machine.

Sizing machines.—The sized or weavers' beam is driven through spur-gearing from a wheel 23 (Fig. 6) between two friction plates 27 on a driving-shaft. The plates are pressed against the wheel 23 by a weighted lever acting on a pivoted fork which carries friction bowls pressing on one of the plates. A modification is described in the Provisional Specification. The latter also describes arrangements for giving a slow motion to the machine, and arrangements for assisting the steam cylinder to revolve by the steam pressure. [11*d.*]

12,122. August 22, 1888. **Yarns and fabrics.** P. M. JUSTICE, 55, Chancery-lane, London.—(W. J. Williams; Camden, New Jersey, U.S.A.)

In order to keep the fibres, yarns, and fabrics moist during the manufacturing operations, without causing the rusting of the bright metallic portions of the machinery employed, and also for fixing the dye colours on fibres and fabrics, and for the prevention of "rust" and "crocking" therein, they are treated with a solution of an alkaline phosphate, by preference of tri-sodium phosphate. A one per cent. solution of the tri-sodium phosphate is suitable for use in dyeing operations, producing dense and lasting colours. [4*d.* No Drawings.]

12,171. August 23, 1888. **Winding machines.** H. C. HILL, Holly Bank, Mottram Road, Salford-bridge.

Relates to means for winding yarn, &c., in a cylindrical form on to bobbins or spools without ends, a short and quick traverse being provided which is extended gradually or intermittently from end to end of the bobbin, and at such a rate as to form firm and cylindrical ends. [11*d.* Drawings.]

12,195. August 24, 1888. **Looms.** E. R. MERRALL, Haworth, near Keighley, Yorkshire.

Let-off motion.—The friction rope of each let-off beam is attached to a drum mounted in suitable bearings. The drum carries a ratchet wheel, and upon its shaft is loosely mounted a weighted lever carrying a pawl to keep the rope in tension. In a modification the drum carries a spur wheel gearing with a spur wheel on the shaft of which is mounted the ratchet wheel and pawl lever.

Take-up motion.—The take-up beam is held up in contact with its driving beam by a weighted chain

attached to a grooved bowl mounted loosely on the driving beam axle, a chain, carrying hoops loose on the shaft of the take-up beam, being attached to a small grooved part of the said bowl. [8*d.* Drawings.]

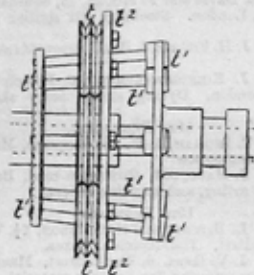
12,199. August 24, 1888. **Gig-mills.** B. F. BYROM, Slackcote Mills, Delph, near Oldham.

In Moser's gig-mills, as described in Specification No. 11,640, A.D. 1885, and similar machines, the card covered rollers are made up of a number of shorter rollers, mounted end to end upon a feathered or grooved shaft, and connected together by dowel pins, &c., so that their relative positions can be altered as desired. [8*d.* Drawings to Specification.]

12,203. August 24, 1888. **Knitting.** A. PAGE, Radmoor, Loughborough, Leicestershire.

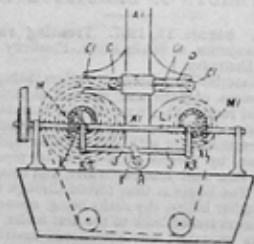
Gussets for hosiery drawers, pants, pantalettes, sleeves of vests, jerseys, under-shirts, &c., are made of a square or diamond shape by being fashioned at both ends so as to come to a point, or nearly so, and to have a selvage on all four sides, and no cleared loops, except one or two at each end, which are fastened off by drawing the end of the yarn through them. They may be made by narrowing from the widest part towards both ends, and may be formed of an open fabric by removing alternate needles and covers or ticklers from the machine. [6*d.* No Drawings.]

12,298. August 27, 1889. **Slubbing, &c. frames.** R. CURTIS and W. H. RHODES, both of Messrs. Curtis, Sons and Co., Manchester.



Winding-on and building motions.—The bobbin shaft is driven by spur gearing from a pinion mounted on the bobbin-carriage said pinion being secured to a grooved pulley driven by a cord from a grooved pulley loose on the driving-shaft. The cord passes over a tension-pulley mounted on the fulcrum end of a lever, the other end of which carries a guide-pulley, and is connected by a link to the bobbin-carriage. By means of a screw and nut arrangement the lever may be adjustable in length if desired. The speed of the grooved pulley on the driving-shaft may be regulated by the ordinary differential mechanism, or a special arrangement may be used, consisting of an expansible pulley *t* made in segments, which slide radially on the disc *u* and through apertures in which pass the rods *v* of a conical frame mounted loosely on the shaft. The frame is slid on the shaft by a system of levers and a bell-crank lever, one arm of which is weighted and rests at the end upon an inclined shaper-plate fixed on the usual rack, or upon a small cam which is revolved by suitable gearing. The long cones usually employed for regulating the lift are operated by shorter ones, the strap-forks of which are operated from the ordinary rack by means of a supplementary rack and spur gearing. [8*d.*]

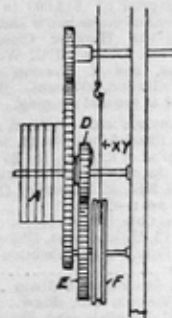
12,259. August 25, 1888. **Burl-dyeing machines.** J. D. ASQUITH, Queen's Mills, Morley, Yorkshire.



Relates to automatic reversing mechanism. To a shaft *H*, across the machine are fixed two upright arms *A*¹, and upon these are adjustable boxes *E*, through which slide rods *D*, carrying rollers *C*, *C*¹. Keyed to the shaft *H* is an arm *I*, connected with a bar *J*, which operates levers *K*¹, *K*², carrying

clutches *K*, *K*¹, whereby the bevels *M*, *M*¹, gearing with bevels on the roller *B*, *B*¹, and running loosely on the driving shaft *L*, are alternately locked to this shaft. In operation the material is wound on the roller *B*¹, and unwinds therefrom on to the roller *B*, and as it accumulates thereon it pushes over the roller *C*¹ into the position *G*¹, against the box *E*. The upright *A*¹ is thereby pushed over, turning the shaft *H* slightly, and thus operating the clutches, so that the motion of the rollers *B*¹, *B*, is reversed. [8*d.*]

12,261. August 25, 1888. **Looms.** J. T. WHITTAKER, 65, Long Causeway, Farnworth, near Bolton.



Shedding motions.—To weave matting and twill cloths the loom is provided with additional tappets, *F* acting on heald levers *X*, *Y* and driven by spur gearing *E*, *D*, from the shaft of the ordinary box tappets *A*. [6*d.*]

12,299. August 27, 1888. **Gig-mills.** E. MICHAELIS, A. SMETHURST, and C. WOOD, all of Cable Mills, Oldham-road, Manchester.

The raising-rollers in machines of the "Grosselin" or "Moser" type are arranged in pairs mounted in adjustable bearings. The rollers are all driven in the opposite direction to that of the main or cylinder-shaft, and the teeth of the rollers in alternate pairs are arranged in opposite directions. For grinding the teeth the rollers of each pair are set close to each other, and all are driven in a direction opposite to that in which their teeth are set. Suitable gearing for imparting the required motions to the rollers is described. [Patent opposed. Case not yet decided. 8*d.* No Drawings.]

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