RAIDERSTONE MILL COMPANY, LIMITED,
Registered by R. Jordan, 120. Chancery-lane,
W.C., with a capital of £20,000 in £5 shares. Object,
to acquire the Balderstone Mill, Rochdale; to carry
on business as cotton spinners, &c. The first subscribers are :-Shares J. Henthorn, Fir Bank, Shaw J. Clegg, High Crompton
J. W. Clegg, High Crompton
E. Collings, Woodfield, Oldham
A. T. Mayall, 6 Bath-street, O'dham
J. Clegg, Sandy-lane Mill, Shaw
T Henkhorn, Holmleigh, Shaw. Registered without articles of association. WELLINGTON MILLS COMPANY, HUDDERSFIELD. Registered by Learoyd, James, and Mellor, 12, Coleman-street, E.C., with a capital of £400,000. Object, to carry on business as woollen manufacturers and merchants, and to deal in flax, hemp, jute, cotton, silk, and other fibrous substances. The first Shares. subscribers are :-H. A. Martin, Huddersfield 227,900 50,000 50,000 10,000

BALDERSTONE MILL COMPANY, LIMITED.

Gazette Hews.

There shall not be less than three nor more than seven directors; the first to be appointed by the subscribers to the memorandum of association. Remuneration to be determined in general meeting.

ADJUDICATIONS.

Hilton Birtwistle, Railway Terrace, Padiham, machine and commission agent.

Abraham Ambler (trading as Abraham Ambler and Co.), Sunbridge-road and Fulton-street, Brad-

ford, machine wool comber.
Samuel B. Freeman, Victoria Mills, Bowling, Bradford, worsted spinner.

RECEIVING ORDERS.

Alfred Whiteley, Leamington-street, Manningh vm ,

worsted spinner; Bradford.
Abraham Ambler, Sunbridge road, Bradford,

machine wool-comber, Bradford.

John Corrigan, Rodney-street, Manchester, machinist; Manchester.

PARTNERSHIPS DISSOLVED.

Jubb and Company, Barnsley, down quilt manu-facturers; as regards James D. Waiker.

Illingworth and Hollas, Phonix Works, Tumbling Hill-street, Bradford, wool-staplers, etc. R. and J. Hurdy, Long Eaton, Derby, lace manu-

facturers.

NOTICES OF DIVIDENDS.

M. Scott, Cote Farm and New Mills, both in Idle, near Bradford, commission weaver; 113d., first and final.

Innal.
J. Clough, Pike Hill and Brownside, both near Burnley, farmer: 2s. 8-5.4., first and final.
J. Ramsden, Bridgefield Terrace, and Larchfield Mills, Accommodation-read, Leeds, worsted coating manufacturer: 44d., first and final.

WINDING UP NOTICE The New Broadfield Spinning and Manufacturing Company, Limited, Rochdale.

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.

16TH JUNE.

16TH JUNE.

9,262. S. W. WILKINSON, 17, St. Ann's-square, Manchester. Scutching machines.

9,264. Geo. Thomas, 17, St. Ann's-square, Manchester. Balance apparatus for ascertaining counts or numbers and weight of yar 1.

9,278. T. BARGROFT, Senr., T. BARGROFT, JUNT., W. PICKUP, and W. Knowles, 8, Quality-court, London. Friction clutches.

9,281. A. FLATHER, W. FLATHER, and D. Wright, 71, Ashgrove, Bradford. Jacquard machines.

9,296. E. DE PASS, 78, Floet-street, London. Spinning or twisting spindles. (J. Imbs, France.)*

9,808. W. Hothersall, 20, High Holborn, London. Retaining or fixing in shuttles the bobbins or spools.

E. HUSCHKE, 20, High Holborn, London. 9,809.

Power loom for weaving wire cloth."

9,318. H. REMBERT, 323, High Holborn, London.
Compressing and baling cotton.

17TH JUNE.

9,322. READ HOLLIDAY and SONS, Limited, and T. HOLLIDAY, 55, Chancery-lane, London. Forma-tion of new colouring matters in or upon cotton, etc 9,323. E. E. SIBLEY, 55, Chancery-lane, London.

Circular knitting machinery.
9,342. R. WILEINSON, Sunbridge Chambers.
Bradford. Connections between the uprights and harness of double-lift open-shed jacquard machines. 9,348. H. W. Rice and C. Smith, Player-street,

9.348. H. W. RICE and C. SMITH, Player-street, Notingham. Improved Jacquard. 9.380. A. J. Boult 323, High Holborn, London. Spools for spinning, weaving, and other similar pur-poses. (W. Schneider, Germany.) 9.388. J. S. COCHRAN, 45, Southampton Build-ings, London. Machines for delinting cotton seed.*

18TH JUNE.

G. B. BEHRENS, of the Firm of DANIEL LEE and Co., and J. C. WATSON, 1, St. James'square, Manchester. "Wash-greys" or back cloths

used in printing woven fabrics.
9,430. T. Mellor, Commercial-street, Halifax Steaming, boiling, and disinfecting fabrics, or

9,453. A. Mellor and F. F. Mellor, 45, South-ampton Buildings, London. Straight bar knitting machines.

9,473. G. G. M. HARDINGHAM, 191, Fleet-street, London. Shearing wool or hair. (Silver's Sheep-shearing machine Co., Ld., Australia.)*

19TH JUNE.

9,486. R. S. Burn, Oak Lea, Edgeley-road, near Stockport. "Ginning" fibres. 9,495. J. L. Halliday and L. Shore, 58, Lowstreet, Keighley. Preventing fibres from wrapping the drawing-off rollers of combing machines.

9,505. A. J. VANDENBERG and C. THOMPSON, 8, Quality-court, London. Improvements in the method of making up silk velvets, plushes, and other pile fabrics, and in means and appliances for effecting the same.

enecting the same.
9.530 O. IMRAY, 28, Southampton Buildings,
London. Blue-green colouring matters. (Farbwerke vorm. Meister, Lucius, and Brüning, Germany.)
9.537. J. Y. Johnson, 47, Lincoln's Inn Fields, Londo 1. Substantive dyestuffs and new materials therefor. (Badishche Anilin and Soda Fabrik, Germany.)

9,557. J. WARBURTON and H. STUTHARD, 4, St. Ann's square, Manchester. Presser flyers. 9,576. THOMAS GUEST and THOMAS BROOKES, 5, John Dalton-street, Manchester. Winding frames. 9,585. S. WALKER and G. LIEER, 72, Victoriastreet, Radeliffe, Lancs. Positive shuttling motion for all looms. for all looms.

9,698. A. Bruce, 2, Newcastle-street, Strand London. Printing lines and figures on shirt-fronts, cuffs, collars, and ladies' setts.

21st June.

9,627. M. SMITH, 70, Market-street, Manchester. Printing and folding textile fabrics.

9,630. H. A. RENDALL, Allington House, Brid-

Port. Weaving rectangular mesh netting.

9,636. J. COWBURN and C. PECK, 18, St. Ann'sstreet, Manchester. Operating the rising and
fulling, revolving, or other moveable shuttle boxes

9.643. A. Hodge, 96, Buchanan-street, Glasgow. Treatment of ramie or rheea fibre, etc., and appliances or mechanism connected therewith.

C. CLARK, 87, St. Vincent-street, Glasgow.

Knitting mechanism. 9,656. C. R. Bonne, 41, Eastcheap, London. Apparatus for producing tambour stitching on gloves.

9,676. J. Y. Johnson, 47, Lincoln's Inn Fields, London. Substantive dyestuffs. (Badische Anilin and Soda Fabrik, Germany.)

SPECIFICATIONS PUBLISHED.

1889.

10,360. MAERTENS, Dyeing yarn, &c. 1s. 5d. 10,434. GREEVES and Lucas. Hackling flax, &c. 8d. 11,124. KLEIN. Decorating creps, silks, &c. 8d.

WOOTTON. Domestic weaving. Sd. IMBAY. (Farbwerke vormals Meister, Lucius, & Bruning.) Colouring matters. 11.583. 11,666.

12,327. Burges and ors. Looms. 8d.

1890.

HARE. Copper, &c., printing rollers. 4d. OHLSSON. Bobbins. 6d. UNGER. Unwinding skeins of yarn, &c. 2.989 4.885.

5.009. 6d.

SINGER and JUDELL. Pressing fleeces of wool, &c. 6d.

REPRINTS (with alterations).

1888.

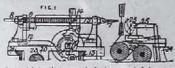
18,614 ILLINGWORTH. Drying fabrics, &c. 8d.

1889. 7,588. Bang (Dahl and Co.) Colouring matters. 4d.

SPECIFICATIONS PUBLISHED.

S14. Jan. 16, 1889. Pile Fabrics. J. Editions, 36, Sunbridge-road, Bradford.

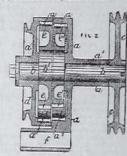
Apparatus is described for inserting pile threads in a backing of caovas by means of a needle, a hook or fluger being employed to catch and hold the loops and to cut them, if desired. The needle 7 is fixed eccentrically in a spindle carri, dby a slide with reciprocates on rods. The rods are mounted on a ca riage, which is traversed across the hook or loop holder, which is worked from a cam on the mains him. A curved arm attached to the carriage carries the hook or loop holder, which is worked from a cam on the mainshaft. If the loops are to be cut a knife edge is formed on the hook, or a separate cutter may be used; or, by using a holder inserted on the same side as the needle, a cutter only is required on the apposite side. In instruments such as are described in Specification No. 11,232, A.D. 1883, the frame acting as needle, and holder guide is made in two parts, that which guides the holder having its face parallel to the same the other part is fixed on a contre so that in adjusting it to vary the attich it moves radially and thereby always has it appeals! Worked cutter may be attached to this appa atus. It also describes arrangements for selecting and bringing into action, as required, needles with different coloured threads.



Georing ratchet.—A screw shaft is operated by a ratchet wheel the two pawls for which are carried by arms loose on the shaft, and are operated continually by a cam between them. The pawl- are put into gear alternately, to drive the shaft one way or the other, by a cam operated at the required times by a moving part of the machine. [II4d. Drawings.]

817. Jan. 16, 1889. Carding-Engines. J. W. Quees-J. Herneeungron and Sons, Pollard-street, Manchester.

Str. Jan. 16, 1883. C:
J. Herngersoron AND So
Gylinders and doffers.
The cyl nder or the doiter is driven slowly for
crinding purposes
through the gearing
shewn in the figure.
The grooved pulley of
driven from the loose
pulley is mounted upon
as hit b povided with
an econtric 51, which
carries a double spur
wheel, the two parts et,
of which have slightly
different diamsters are
gear respectively, with
internal testh of on the
casing of, and with internal testh of on the
casing of, and with internal testh of on the
casing of, and with internal testh of on the
casing of, and with internal testh of on the
casing of, and with incertain testh of the content
connected by a bind
with a pulley on the
cylinder shaft; the
apparatus may be per
desachably secned for the

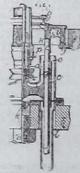


apparatus may be permanently fixed to the flow or be detachably secured to the caring by means of a tabular boss / or by other suitable means. [846.]

786. Jan. 16, 1889. Spinning, etc. E. DJHKER, Athburndale, Newton, Massachussete, U.S.A.

786. Jan. 16, 1859. Spinning, etc. E. Dinker, Athburndale, Newton, Massachussets, U.S.A.

Spinitles and their appartenacces.—The object is to presave the axial coincidence
of the ring and spindle,
thereby preventing the unequal strain upon he thread
owing to the spindle and its
load being not proper y
balanced, and also to the pull
of the thread upon it. The
bolster a, by means of arms
b, carries bearings c for reds
E connected at their upper
ends to the ring D, which is
flexibly secured to the ring fin
the rail. The bolster is suspended or flexibly supported
with a step bearing for the
spindle. In order that the
beariners for the spindle and
for the rods E may be
effectually lubricated, they are surrounded by an oil chamber,
the lower part of which is formed by tubular extensions e of
the frame F, and the upper part by a cover I having a central
tubular part p surrounding the bolster, and also tubular
parts o which form extensions of the tuber I in which takthe rods E. In one modification the footstep for the spindle
is formed in one piece with the bolster, and also tubular
parts or which form extensions of the tuber I in which takthe rods E. In one modification the footstep for the spindle
is formed in one piece with the bolster, and the latter is connected by a concentric tube and arms to the bearings c. To
prevent the vibrations of the spindle from heing communica ed to the supporting rail elistic or flexible material may



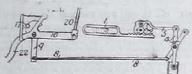
be pinced between it and the spindle support or bolster to which the arms b are in this case directly attached. Or the rail H may be placed below the rail G, the bolster being supported by a ball and seeket arrangement and extended downwards by means of a red, to which the downward extension of the rods E are connected by arms which are provided with a socket for sliding on said red, and are connected to the rail by a spring. The rings or the sliding rods E may be variously connected to the rail H. [8]-d.]

822. Jan. 16th, 1889. Straight bar knitting machines. J. H. M. Honany, Oxford-street, Leiesster.

Aurousing.—To the ordinary narrowing so ow box at each end of the machine, is secured as bracket, which is solipped by the flangess of a nut engaging with a screw at the end of the ordinary narrowing rod. The outer flange of the nut is formed with a ratchet wheel, operated by a pawl as the narrowing machine rises. When the pawl is in action, the narrowing rod is racked outwards to the extent of one or two needles for narrowing. The number of narrowing points in action is thus scaled to the open at each motion of the ratchet wheel. Is. 2d. Dramings.]

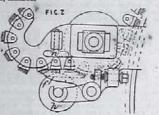
867. Jan. 17, 1889. Looms. G. H. Honoson, Bee Hive

867. Jan. 17, 1889. Looms. G. H. Hongson, Bee Hive Works, Bradford.



Drop-bax motion.—The boxes are operated from the pattern mechanism through draw-racks 1, disc wheels 2, links 3, specially mounted compound levers 4, a rod 3, broken backed lever 9, 10, and a rod 20 connected to the box-rod. A spring bowl 17, taking loto a notch, holds the purt 9 and 10 in position, unless any obstruction arises, in which case the bowl is forced from its notch and thus prevents breakage. The bowl may also be forced out by an arm or treadle 22 employed at times for operating the boxes. [6]d.]

871. Jan. 17, 1889. Carding-engines, J. Seel, Brunswick Mills, Halifax.



Flats, granding.—The flats are ground while passing face downwards over suitable guides above the taker-in. They may be pressed upwards by aprings, etc. against the guide, in which case that part of the flat which engages with the guide is made at such an inclination to the working surface as will give the necessary "set." to the flat; of they may be pressed downwards by a weight a against a guide f, which, to give the required "set," is made with two parallel portions separated by a step. The grinding roller h is carried in adjustable brackets beneath. [6]d.]

922. Jan. 18, 1830. Learne.

922 Jan. 18, 1889. Looms. W. and H. A. FIELDING, 462, Oldham-road, Manchestar.

Jacquard harness is described adapted for



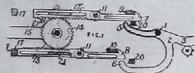
Jacopsard harness is described adapted for use in weaving cloth of different degrees of time ness in the reed. Two comberboard frames, who are employed, containing numerous slipp or pieces of wood, etc., per forsted for the harness threads to pass through. By altering the position of the "all ps" c, d in a horizontal direction, by interposing blank slips, etc., in one or both frames, the harness may be altered without the necessity of "castling out," the harnes may be altered without the necessity of a stating out," the harnes may be altered without the necessity of "castling out," the harnes may be altered without the necessity of "castling out," the harnes may be an altered without the necessity of a face of the the cords, from one jacquard hook, for two degrees of faceness in the reed, they of the upper frame not requiring to be moved. Slidling barnes of the may be employed in place of perforated slips. Instead of having two frames a and by long mails having a number of eyes, which are at the required level. [6]d.]

933. Jan. 18, 1893. Beetling fabrics. E. Simpson, 42, Britannia Therrace, Pendleson, Lancashire.

The tappet holder for the failer consists of a typered metal pocket, secured thereto by a bodi, nuts, and a spring. The tappet is fixed in the holder with the grain running longitudingly. At the back of the failer a metal bracket for lifting it from the bestling beam, is secured by the bolt and connections [6]d. Dennings.]

935. Jao. 18th, 1889. Looms. F. Leemiso, and R. Wilkinson, North Vale Works, Bradford.

935. Jan. 18th, 1889. Looms. F. LEEMING, and R. WILKINSON, North Vale Works, Bradford.

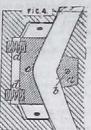


Dobbies.—A shaft I carries setting levers 2, the heavy ends 3 of which rest on and are operated by the pattern pegs, whilst the fingers 5, 6, act respectively on the draw hooks 7 and 8. The latter are operated by the usual knives 9, 10 and are specially jointed at 11 to racks 12, 13, engaging with toothed whoels 14 on bars 15 which are connected with the jack levers. The parts 21x and bars 21 and 20 serve to guide the racks, the motion of the latter being limited by stop pieces 17. When the hooks are not caught by the knives they full and engage in the bars 20 and are thus prevented from moving. In positive dobbies the racks 11 are formed with extensions against which the knives act to return them positively, and

separate levers 2 are employed for the top and bottom draw hooks. [8[d.]

988. Jan. 19, 1889. Wind ing Machines. H. Wees London-road Iron Works, London-road Iron Work, Manchester, Inquick

Transess mechanism.—In quick traverse frames the part a and the part c opposite to it and the part c opposite to it and the traverse cam are made of separate pieces of hardened steel, or other suitable material, which can be renewed when dasired. The piece c is loose, and is pressed forwards by springs d, and the piece c is preferably fixed by surews b, but it may be provided with springs if desired. [6]d.]



989. Jan. 19, 1889. Spinning. G. P. Letou, 147, Great Ancoats-street, Manchester, and A. H. Bellmingen, Enschede Holland.

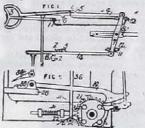


989. Jan. 19, 1889. Spinning. G. P. Levon, 147, Great Ancoats-street, Manchester, and A. H. Bellanger. Enschede Holland.

5pindles and their appurtenances.—The spindles, which are of uniform thickness between the spindle rail a and the bolster rail b are supported by longitudinal troughs d, h which are filled with lubricant, and provided with covers which are perforated to admit the spindles. The trough d is fitted with an angular bearing plate, and h with a plain plate i, both of which may be moved longitudinally in order to present fresh bearing surfaces for the spindles. These plates may, however, be notehed if desired at the parts which are in contact with the spindles. The perforations in the bottom of the trough h, which admit the spindles may, if liquid labricant be used, be fitted with split or perforated metal bushes or bearings. The fronts of the iroughs are preferably removable to facilitate cleaning, etc. In a modification cach spindle is supported in a separate lubricating box fixed to the front of the spindle rail, the back of the box forming the plate against which the spindle revolves. [8]d.]

1008. Jan. 19, 1889. Looms. A. Sowden, Spring Field House, Baildon.

Deblice.—The draw-books 4 (Fig. 1) are formed with two sets of catches 5, 6, so that they may be operated either way by the knives 1, 2. The latter are worked by eccentrics 3. The baulk levers 7 are attached to side pieces 8 connected with the jack levers, extra levers forequalising the shed being sometimes interposed. The ends of the levers 7 are formed, as shewn, for working on crossbura 12, which may be movable, by connecting with the knives, for open shedding. The rocking I levers of dobbies may be operated from a crank wheel driven by spaced tooched gearing from the tappet shaft, a dwell being thus provided for.



Under-shedding mechanism.—The Provisional Specification describes a method of attaching the straps of the springs of Kenyon's levers to such levers.

Change bear method of attaching the straps of the springs of Kenyon's levers to such levers.

Change bear medicas.—In motions in which the box-rod 36 (Fig. 5) is operated from compound eccentri's, worked through t othed gearing 21. 22 from a pin wheel turned by draw-hooks 19, the said hooks are operated through a link 26 from a pendent broken-backed lever rocked by a cam and a springs. Spring hammers 31 serve to lock the parts. A catch 34, in connection with the knocking-off apparatus, engages with a stop piece 33 when the loom is stopped, and puts the box motion out of action. The motion proceeds wheat the box motion out of action. The motion proceeds wheat the vertile and may be set by pattern mechanism. The wheels 22 may be spaced wheels, one of them having a turned locking the provision of the provision of which the motion may be reversed wheat required.

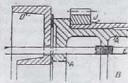
22 may be spaced wheels, one of them having a turned locking the provision of which the motion may be reversed when required.

34 may be spaced wheels, one of them having a turned locking the provision of which the motion may be reversed when required.

35 may be spaced wheels, one of them having a turned locking the provision of which the motion may be reversed when required.

36 may be spaced wheels, one of them having a turned locking the provision of the

1094. Jan. 29, 1889. Drylng. H. W. and J. H. White HEAD (Taylor, Wordsworth, and Co.), Leeds.



1094. Jan. 29, 1889. Drying. H. W. and J. H. WhitsHEAD (Taylor, Woresworth, and Co.), Leeds.

To dispense with the
use of glanns or packing
in apparatus for drying
fibres, yarn, and fabries,
such as the drying portion of back-washing
machines, the cylinder
A, with a steam-tight
compartment B, is fixed
to the framework D,
and the ordinary geared
drying cylinder J is
rotated upon it. Steam is admitted by the pipe E, and the
water of condensation passes off by a similar pipe at the bottom of the cylinderA. [640].

1.119. Jan. 22, 1889. Looms. J. Fairmurs, the younger,
88, Every-street. Burnley.

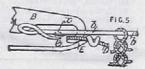
Shedding mechanism.—For weaving slit-ups or lenos upper
and lower pairs of shedding needles are employed, each
carried by pieces which have elastic connections with guide
pulleys above, as well as strap connections with an oscillating
crank disc or eccentric beneath. The straps pass between a
pair of guide pulleys, and are earried from one to the other as
the needles are worked up and down by the motion of the
crank, whereby the necessary crossing of the warp threads is
effected. In a modification the upper needles are moved up
and down by a rod and crank, whist the lower needles are
rocked about a centre by a forked bar acted on by a cam.
[840. Drawings.]

1,121. Jan. 22, 1889. Knitting machines. H. Willor,
Well-street, Brandford, and F. W. Rawstron, Ox Heys, Shelf,
near Halliax.

Needles — Bearded
needles b are formed

near Halifax.

Needles b are formed with the beards a partially or wholly twisted around the stem to give a half, or whole, twist to the loop. When the beards are twisted half way round, the needles are arranged with the points down



needles are arranged with the points downwards, and the yarn D is fed from the thread guide E, and drawn into the beards by the hooked plates or sinkers B. [8]d.]

1,224, Jan. 22, 1899. Screw Gill boxes. J. Farrar, Globe Works, Halifax.

To facilitate the removal of the endless belt passing be ween the delivery rollers, it is made to take through an aperture in the top rall instead of to enclose the same as is usual. [6]d. Drawings.]

1,123. Jan. 22, 1889. Packing yarns. G. Harlo, 100. Portland-street, Manchester.

The bundles, covered with paper and labelled as usual, are wrapped in calico, etc. (which may also be labelled), before being made into bales. In this way the paper covera are preserved. [4]d. No Drawings.]

1,172. Jan. 22, 1899. Treating textile materials

Deing made into ones. In this way the paper covers are preserved, [4]d. No Prancings.]

1,172. Jan. 23, 1889. Treating toxtile materials with liquids, gasses, or vapours. W. Mather, Falford Iron Works, Manchester.

In kiers for soaking, steaming, bleachine, dyeing, washing and similarly treating textile materials, of the class described in Specification No. 1912, No. 3,098, No. 3,793, A.D. 1885, and No. 10,338, No. 15,318. A.D. 1886, the sluice door at one end is opened by a weighted cylinder at the other end, which is connected to the door by a chain passing over pulcys, and works on a hollow fixed hydraulic plunger communicating with a steam pressure vessel. The door closes against a thin iron ring, which presses upon a caoutchour ring in a recess in the end face of the kier, and it is forced to its lowest position by a cam and ratchet brace arrangement. A rotary pump is provided, and pipes and valves are arranged for supplying and discharging liquids, and circulating them through the materials in different directions. [11]d. Drawings to Specification.]

materials in different directions. [11]d. Drawings to Specification.]

1,237. Jan. 23, 1889. Kuitting. J. Cunnings to Specification.]

1,237. Jan. 23, 1889. Kuitting. J. Cunnings to Specification.]

1,237. Jan. 23, 1889. Kuitting. J. Cunnings to Specification.

Circulars machines.—The posts between the needle grooves of the ribbing dist, are made to project beyond the periphery to enable a longer and fuller ribbing stitch to be made by adjacent ribbing needles, and any combination of cylinder and dial needles to be used without change in the form or position of the ribbing cam. [6]d. Drawings.]

1,212. Jan. 21, 1889. Combing machines. F. Illinoworm, Caledonian Works, Bradford.

Drawing-off.—Co prevent the drawing-off rollers from becoming grooved they are traversed longitudinally as well as rotated in the usual manner. The arle of the driven roller is connected through worm and spar gearing with a wheel, carrying upon its face a stud, which takes into a slot in a saddle, which embaces the spindle on exclusive worm with the context of the driven roller is connected to the saddle by a clip. [6]d. Drawings.]

1,228. Jan. 23, 1889. Damping fabrics. A. and R. Brakantny, and R. Chanker, all of Queen-street Mills, Batley, Yorkshire.

A spray of water is discharged upon the fabric from a nozzle by means of compressed air from a reservoir, supplied by a rotary blower through a valve or regulator. The pipe from the reservior is branched, so that a part of the sir acts upon the surface of the water in the tank and forces it up the inner pipe, and the remainder acts inductively at the nozzle. [6]d. Drawings.]

1,239. Jan. 24, 1889. Knitting. W. and J. T. Laing, and T. A. Bosson, Wilton Mills, Hawick, Roxburgabire.

Straight-far machines.—The knocking-over bits in Cotton's co other hodery frames, having sinkers moving horizontally for the manufacture of all classes of under-wear, such as hose, half-hose, pants, shirts, vests, and combinations, are formed as shown, to enable a heavier yarn to be used. [8]d.]



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