CPC  COOPERATIVE PATENT CLASSIFICATION

D  TEXTILES; PAPER

TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

D01  NATURAL OR MAN-MADE THREADS OR FIBRES; SPINNING

NOTE omitted

D01G  PRELIMINARY TREATMENT OF FIBRES, e.g. FOR SPINNING (winding or unwinding, conducting or guiding laps, webs, slivers or rovings in general, sliver or roving cans, depositing in sliver or roving cabs B65H; preparation of fibres for paper-making D21)

NOTE

Attention is drawn to the note following the title of Class D01.

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00  Severing continuous filaments or long fibres, e.g. stapling
1/02  . to form staple fibres not delivered in strand form
1/022  . . [by solvents]
1/025  . . [by thermic means, e.g. laser]
1/027  . . . [by freezing]
1/04  . . by cutting
1/06  . Converting tows to slivers or yarns, e.g. in direct spinning (drafting arrangements, twisting arrangements D01H)
1/08  . . by stretching or abrading
1/081  . . . [with preferential breaking zones]
1/083  . . . . [obtained by mechanical means, e.g. by squeezing]
1/085  . . . . [obtained by thermic means]
1/086  . . . . . [by freezing]
1/088  . . . . . [obtained by electric or electro-static means]
1/10  . . by cutting
3/00  Roughening of fibres
5/00  Separating, e.g. sorting, fibres (separating fibres of differing lengths in silk-dressing machines D01G 17/00; in combing machines D01G 19/00)
7/00  Breaking or opening fibre bales
7/02  . by means of beater arms
7/04  . by means of toothed members
7/06  . Details of apparatus or machines
7/08  . . Arrangements for feeding bales to comminuting elements
7/10  . . Arrangements for discharging fibres
7/12  . . Framework; Casings; Coverings; Grids
7/14  . . Driving arrangements
9/00  Opening or cleaning fibres, e.g. scutching cotton (scutching flax or like fibres D01B; making cellulose wadding in papermaking machines D21F 11/14)
9/02  . by agitation within a moving receptacle
9/04  . by means of beater arms
9/06  . by means of toothed members
  
9/08  . by means of air draught arrangements
9/10  . . using foraminous cylinders (foraminous suction cylinders for lap-forming D01G 25/00)
9/12  . Combinations of opening or cleaning machines
9/14  . Details of machines or apparatus
9/16  . . Feeding arrangements (fibre-feeding apparatus of general application in fibre-treating machines D01G 23/00)
9/18  . . Arrangements for discharging fibres
9/20  . . Framework; Casings; Coverings; Grids
9/22  . . Driving arrangements
11/00  Disintegrating fibre-containing articles to obtain fibres for re-use
11/02  . Opening, unravelling, or tearing ropes or like fibrous strands to obtain fibres for re-use
11/04  . Opening rags to obtain fibres for re-use (mechanical treatment of rags for paper-making D21B)
13/00  Mixing, e.g. blending, fibres; Mixing non-fibrous materials with fibres (mixing of fibres combined with other operations, e.g. bale-breaking of fibre-opening, see appropriate groups for such operations)
15/00  Carding machines or accessories; Card clothing; Burr-crushing or removing arrangements associated with carding or other preliminary-treatment machines (de-burring apparatus or machines operating independently D01B)
15/02  . Carding machines
15/04  . . with worker and stripper or like rollers operating in association with a main cylinder
15/06  . . . Garnett machines
15/08  . . . with flats or like members or endless card sheets operating in association with a main cylinder
15/10  . . . with other apparatus, e.g. drafting devices, in integral or closely-associated combination (web-dividing apparatus D01G 15/46; burr-crushing or removing arrangements D01G 15/94)
15/12  . . Details
D01G

15/14 . . . Constructional features of carding elements, e.g. for facilitating attachment of card clothing
15/16 . . . . Main cylinders; Breasts
15/18 . . . . Workers; Strippers; Doffers (doffers specially adapted for web dividing
15/20 . . . . Feed rollers; Takers-in
15/22 . . . . Fancies
15/24 . . . . Flats or like members
15/26 . . . . Arrangements or disposition of carding elements
15/28 . . . . Supporting arrangements for carding elements; Arrangements for adjusting relative positions of carding elements
15/30 . . . . Bends
15/32 . . . . Framework; Casings; Coverings
15/34 . . . . Grids; Dirt knives; Angle blades
15/36 . . . . Driving or speed control arrangements
15/38 . . . . for use during the grinding of card clothing
15/40 . . . . Feeding apparatus (fibre-feeding apparatus of general application to fibre-treating machines, e.g. hopper feeders D01G 23/00)
15/42 . . . . Feeding from laps
15/44 . . . . Intermediate feeds
15/46 . . . . Doffing or like arrangements for removing fibres from carding elements; Web-dividing apparatus; Condensers (lap-forming devices D01G 25/00; fibre condensing guides D01H 5/72)
15/465 . . . . [Doffing arrangements for removing fibres using, or cooperating with, pneumatic means]
15/48 . . . . Stripping-combs
15/50 . . . . Stripping-rollers or like devices
15/52 . . . . Web-dividing arrangements
15/54 . . . . employing doffers specially adapted for web dividing
15/56 . . . . employing tapes
15/58 . . . . Sliver or like rubbing apparatus
15/60 . . . . Constructions of rubbing leathers
15/62 . . . . Slubbing-winding apparatus (winding apparatus of general application to the winding of filamentary material B65H)
15/64 . . . . Drafting or twisting apparatus associated with doffing arrangements or with web-dividing apparatus
15/66 . . . . with arrangements inserting false twist (false-twist devices D01H)
15/68 . . . . with arrangements inserting permanent twist, e.g. spinning
15/70 . . Arrangements for producing decorative or fancy effects in products
15/72 . . Arrangements for returning waste to be re-carded
15/74 . . Air draught arrangements (air draught arrangements for stripping or for removing dust or fly D01G 15/76)
15/76 . . Stripping or cleaning carding surfaces; Maintaining cleanliness of carding area
15/763 . . . [by suction or blowing (D01G 15/785, D01G 15/805, D01G 15/825 take precedence)]
15/766 . . {Cleaning hand tools}
15/78 . . Arrangements for stripping flats
15/785 . . . [by suction or blowing]
15/80 . . . . Arrangements for stripping cylinders or rollers
15/805 . . . . [by suction or blowing]
15/82 . . . . Arrangements for confining or removing dust, fly or the like
15/825 . . . . [by suction or blowing]
15/84 . . . . Card clothing; Manufacture thereof not otherwise provided for (arrangements for driving carding-machine elements during grinding D01G 15/38; grinding card clothing B24B)
15/86 . . . . with flexible non-metallic backing
15/88 . . . . formed from metal sheets or strips
15/90 . . . . Lags, e.g. for jute cards
15/92 . . . . Attaching card clothing to carding elements
15/94 . . . . Burr-crushing or removing arrangements
15/96 . . . . Burr-crushing rollers
15/98 . . . . Morel or like apparatus

17/00 Silk-dressing machines

19/00 Combing machines
19/02 . . . with pinned circles, e.g. Noble
19/04 . . . with pinned cylinders, e.g. rectilinear
19/06 . . . Details
19/08 . . . . Feeding apparatus
19/10 . . . . Construction, mounting, or operating features of combing elements
19/105 . . . . {Combing cylinders (needle bars D01H 5/14)}
19/12 . . . . Devices for laying or holding fibres in combs, e.g. dabbing brushes
19/14 . . . . Drawing-off and delivery apparatus
19/16 . . . . Nipper mechanisms
19/18 . . . . Roller, or roller and apron, devices, e.g. operating to draw-off fibres continuously
19/20 . . . . operating to draw-off fibres intermittently
19/22 . . . . Arrangements for removing, or disposing of, noil or waste
19/24 . . . . Framework; Casings; Coverings
19/26 . . . . Driving arrangements
19/28 . . . . Air draught or like pneumatic arrangements
19/30 . . . . Heating arrangements

21/00 Combinations of machines, apparatus, or processes, e.g. for continuous processing (D01G 1/06, D01G 9/12, D01G 15/46, D01G 15/94 take precedence)

23/00 Feeding fibres to machines; Conveying fibres between machines (D01G 21/00 takes precedence; intermediate feeds in carding machines D01G 15/40)
23/02 . . . Hoppers; Delivery shoots
23/04 . . . with means for controlling the feed
23/045 . . . . [by successive weighing; Weighing hoppers]
23/06 . . . Arrangements in which a machine or apparatus is regulated in response to changes in the volume or weight of fibres fed, e.g. piano motions (arrangements in which draft is regulated in response to irregularities in fibre supply D01H)
23/08 . . . Air draught or like pneumatic arrangements

25/00 Lap-forming devices not integral with machines specified above (forming mats or batts of continuous filaments for non-woven fabrics D04H)
27/00 Lap- or sliver-winding devices, e.g. for products of cotton scutchers, jute cards, or worsted gill boxes
27/02 . with lap-roll or the like loaded to provide firm packages
27/04 . with automatic discharge of lap-roll or the like

**29/00** Arrangements for lubricating fibres, e.g. in gill boxes (processes involving the use of particular lubricants D06M 15/00)

**31/00** Warning or safety devices, e.g. automatic fault detectors, stop motions (safety devices of general application F16P; indicating devices of general application G08B)

31/003 . [Detection and removal of impurities]
31/006 . [On-line measurement and recording of process and product parameters]

**33/00** Hand tools for treatment of fibres

**35/00** Treatment of oakum

**99/00** Subject matter not provided for in other groups of this subclass

99/005 . [Conditioning of textile fibre during treatment before spinning (conditioning during spinning or twisting D01H 13/30)]