

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 cans [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	9/08	• by means of air draught arrangements
1/02	• to form staple fibres not delivered in strand form	9/10	• • using foraminous cylinders (foraminous suction cylinders for lap-forming D01G 25/00)
1/022	• • {by solvents}	9/12	• Combinations of opening or cleaning machines
1/025	• • {by thermic means, e.g. laser}	9/14	• Details of machines or apparatus
1/027	• • • {by freezing}	9/16	• • Feeding arrangements (fibre-feeding apparatus of general application in fibre-treating machines D01G 23/00)
1/04	• • by cutting	9/18	• • Arrangements for discharging fibres
1/06	• Converting tows to slivers or yarns, e.g. in direct spinning (drafting arrangements, twisting arrangements D01H)	9/20	• • Framework; Casings; Coverings; Grids
1/08	• • by stretching or abrading	9/22	• • Driving arrangements
1/081	• • • {with preferential breaking zones}	11/00	Disintegrating fibre-containing articles to obtain fibres for re-use
1/083	• • • • {obtained by mechanical means, e.g. by squeezing}	11/02	• Opening, unravelling, or teasing ropes or like fibrous strands to obtain fibres for re-use
1/085	• • • • {obtained by thermic means}	11/04	• Opening rags to obtain fibres for re-use (mechanical treatment of rags for paper-making D21B)
1/086	• • • • • {by freezing}	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)
1/088	• • • • • {obtained by electric or electro-static means}	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)
1/10	• • by cutting	15/02	• Carding machines
3/00	Roughening of fibres	15/04	• • with worker and stripper or like rollers operating in association with a main cylinder
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)	15/06	• • • Garnett machines
7/00	Breaking or opening fibre bales	15/08	• • with flats or like members or endless card sheets operating in association with a main cylinder
7/02	• by means of beater arms	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)
7/04	• by means of toothed members	15/12	• • Details
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		

- 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 [D01G 15/54](#))
- 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**

D01G

- 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](#))}