

**CPC****COOPERATIVE PATENT CLASSIFICATION****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.

**D01G 1/00**

**Severing continuous filaments or long fibres, e.g. stapling**

- D01G 1/02 . to form staple fibres not delivered in strand form
- D01G 1/022 .. {by solvents}
- D01G 1/025 .. {by thermic means, e.g. laser}
- D01G 1/027 ... {by freezing}
- D01G 1/04 .. by cutting
  
- D01G 1/06 . Converting tows to slivers or yarns, e.g. in direct spinning (drafting arrangements, twisting arrangements [D01H](#))
- D01G 1/08 .. by stretching or abrading
- D01G 1/081 ... {with preferential breaking zones}
- D01G 1/083 .... {obtained by mechanical means, e.g. by squeezing}
- D01G 1/085 .... {obtained by thermic means}
- D01G 1/086 ..... {by freezing}
- D01G 1/088 .... {obtained by electric or electro-static means}
- D01G 1/10 .. by cutting

**D01G 3/00**

**Roughening of fibres**

**D01G 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](#))

**D01G 7/00**

**Breaking or opening fibre bales**

- D01G 7/02 . by means of beater arms
- D01G 7/04 . by means of toothed members
- D01G 7/06 . Details of apparatus or machines
- D01G 7/08 .. Arrangements for feeding bales to comminuting elements

- D01G 7/10 . . Arrangements for discharging fibres
- D01G 7/12 . . Framework; Casings; Coverings; Grids
- D01G 7/14 . . Driving arrangements
  
- D01G 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](#))
  
- D01G 9/02 . by agitation within a moving receptacle
- D01G 9/04 . by means of beater arms
- D01G 9/06 . by means of toothed members
- D01G 9/08 . by means of air draught arrangements
- D01G 9/10 . . using foraminous cylinders (foraminous suction cylinders for lap-forming [D01G 25/00](#))
- D01G 9/12 . Combinations of opening or cleaning machines
- D01G 9/14 . Details of machines or apparatus
- D01G 9/16 . . Feeding arrangements (fibre-feeding apparatus of general application in fibre-treating machines [D01G 23/00](#))
- D01G 9/18 . . Arrangements for discharging fibres
- D01G 9/20 . . Framework; Casings; Coverings; Grids
- D01G 9/22 . . Driving arrangements
  
- D01G 11/00** **Disintegrating fibre-containing articles to obtain fibres for re-use**
  
- D01G 11/02 . Opening, unravelling, or teasing ropes or like fibrous strands to obtain fibres for re-use
- D01G 11/04 . Opening rags to obtain fibres for re-use (mechanical treatment of rags for paper-making [D21B](#))
  
- D01G 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)
  
- D01G 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](#))
  
- D01G 15/02 . Carding machines
- D01G 15/04 . . with worker and stripper or like rollers operating in association with a main cylinder
- D01G 15/06 . . . Garnett machines
- D01G 15/08 . . with flats or like members or endless card sheets operating in association with a main cylinder
- D01G 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](#))
- D01G 15/12 .. Details
  - D01G 15/14 ... Constructional features of carding elements, e.g. for facilitating attachment of card clothing
  - D01G 15/16 .... Main cylinders; Breasts
  - D01G 15/18 .... Workers; Strippers; Doffers ([doffers specially adapted for web dividing D01G 15/54](#))
  - D01G 15/20 .... Feed rollers; Takers-in
  - D01G 15/22 .... Fancies
  - D01G 15/24 .... Flats or like members
  - D01G 15/26 ... Arrangements or disposition of carding elements
  - D01G 15/28 ... Supporting arrangements for carding elements; Arrangements for adjusting relative positions of carding elements
  - D01G 15/30 .... Bends
  - D01G 15/32 ... Framework; Casings; Coverings
  - D01G 15/34 ... Grids; Dirt knives; Angle blades
  - D01G 15/36 ... Driving or speed control arrangements
  - D01G 15/38 .... for use during the grinding of card clothing
  - D01G 15/40 ... Feeding apparatus ([fibre-feeding apparatus of general application to fibre-treating machines, e.g. hopper feeders D01G 23/00](#))
  - D01G 15/42 .... Feeding from laps
  - D01G 15/44 .... Intermediate feeds
  - D01G 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](#))
  - D01G 15/465 .... {[Doffing arrangements for removing fibres using, or cooperating with, pneumatic means](#)}
  - D01G 15/48 .... Stripping-combs
  - D01G 15/50 .... Stripping-rollers or like devices
  - D01G 15/52 .... Web-dividing arrangements
  - D01G 15/54 ..... employing doffers specially adapted for web dividing
  - D01G 15/56 ..... employing tapes
  - D01G 15/58 .... Sliver or like rubbing apparatus
  - D01G 15/60 ..... Constructions of rubbing leathers
  - D01G 15/62 .... Slubbing-winding apparatus ([winding apparatus of general application to the winding of filamentary material B65H](#))
  - D01G 15/64 .... Drafting or twisting apparatus associated with doffing arrangements or with web-dividing apparatus
  - D01G 15/66 ..... with arrangements inserting false twist ([false-twist devices D01H](#))
  - D01G 15/68 ..... with arrangements inserting permanent twist, e.g. spinning
  - D01G 15/70 .. Arrangements for producing decorative or fancy effects in products
  - D01G 15/72 .. Arrangements for returning waste to be re-carded
  - D01G 15/74 .. Air draught arrangements ([air draught arrangements for stripping or for removing dust or fly D01G 15/76](#))

- D01G 15/76 . Stripping or cleaning carding surfaces; Maintaining cleanliness of carding area
- D01G 15/763 .. {by suction or blowing ([D01G 15/785](#), [D01G 15/805](#), [D01G 15/825](#) take precedence)}
- D01G 15/766 .. {Cleaning hand tools}
- D01G 15/78 .. Arrangements for stripping flats
- D01G 15/785 ... {by suction or blowing}
- D01G 15/80 .. Arrangements for stripping cylinders or rollers
- D01G 15/805 ... {by suction or blowing}
- D01G 15/82 .. Arrangements for confining or removing dust, fly or the like
- D01G 15/825 ... {by suction or blowing}
  
- D01G 15/84 . Card clothing; Manufacture thereof not otherwise provided for ([arrangements for driving carding-machine elements during grinding \[D01G 15/38\]\(#\); grinding card clothing \[B24B\]\(#\)](#))
- D01G 15/86 .. with flexible non-metallic backing
- D01G 15/88 .. formed from metal sheets or strips
- D01G 15/90 .. Lags, e.g. for jute cards
- D01G 15/92 .. Attaching card clothing to carding elements
  
- D01G 15/94 . Burr-crushing or removing arrangements
- D01G 15/96 .. Burr-crushing rollers
- D01G 15/98 .. Morel or like apparatus
  
- D01G 17/00      **Silk-dressing machines****
  
- D01G 19/00      **Combing machines****
  
- D01G 19/02 . with pinned circles, e.g. Noble
- D01G 19/04 . with pinned cylinders, e.g. rectilinear
- D01G 19/06 . Details
- D01G 19/08 .. Feeding apparatus
- D01G 19/10 .. Construction, mounting, or operating features of combing elements
- D01G 19/105 ... {Combing cylinders (needle bars [D01H 5/14](#))}
- D01G 19/12 .. Devices for laying or holding fibres in combs, e.g. dabbing brushes
- D01G 19/14 .. Drawing-off and delivery apparatus
- D01G 19/16 ... Nipper mechanisms
- D01G 19/18 ... Roller, or roller and apron, devices, e.g. operating to draw-off fibres continuously
- D01G 19/20 ..... operating to draw-off fibres intermittently
- D01G 19/22 .. Arrangements for removing, or disposing of, noil or waste
- D01G 19/24 .. Framework; Casings; Coverings
- D01G 19/26 .. Driving arrangements

- D01G 19/28 . . Air draught or like pneumatic arrangements
- D01G 19/30 . . Heating arrangements
  
- D01G 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)
  
- D01G 23/00**           **Feeding fibres to machines; Conveying fibres between machines** ([D01G 21/00](#) takes precedence; intermediate feeds in carding machines [D01G 15/40](#))
  
- D01G 23/02 . Hoppers; Delivery shoots
- D01G 23/04 . . with means for regulating rate of feed
- D01G 23/045 . . . {by successive weighing; Weighing hoppers}
  
- D01G 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](#))
  
- D01G 23/08 . Air draught or like pneumatic arrangements
  
- D01G 25/00**           **Lap-forming devices not integral with machines specified above** (forming mats or batts of continuous filaments for non-woven fabrics [D04H](#))
  
- D01G 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
- D01G 27/04 . with automatic discharge of lap-roll or the like
  
- D01G 29/00**           **Arrangements for lubricating fibres, e.g. in gill boxes** (processes involving the use of particular lubricants [D06M 15/00](#))
  
- D01G 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](#))
  
- D01G 31/003 . {Detection and removal of impurities}
- D01G 31/006 . {On-line measurement and recording of process and product parameters}
  
- D01G 33/00**           **Hand tools for treatment of fibres**
  
- D01G 35/00**           **Treatment of oakum**
  
- D01G 99/00**           **Subject matter not provided for in other groups of this subclass**

D01G 99/005

- { Conditioning of textile fibre during treatment before spinning (conditioning during spinning or twisting [D01H 13/30](#)) }