

## SECTION D — TEXTILES; PAPER

### D01 NATURAL OR ARTIFICIAL THREADS OR FIBRES; SPINNING

**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(s)

Attention is drawn to the Note following the title of class D01.

#### Subclass index

#### OPERATIONS BEFORE CARDING; MACHINES THEREFOR

- Opening fibre bales; separating and sorting of fibres; opening or cleaning fibres.....7/00, 5/00, 9/00
- Severing of continuous filaments; roughening of fibres.....1/00, 3/00
- Recovery of fibres by breaking-up fibre-containing articles.....11/00
- Mixing of fibres, or of fibres with non-fibrous materials.....13/00

#### CARDING OR SUBSEQUENT OPERATIONS; MACHINES THEREFOR

- Feeding or conveying fibres for machines; lap-forming; lap-winding; lubricating fibres.....23/00, 25/00, 27/00, 29/00
- Carding and burr-crushing, combing.....15/00, 19/00

#### SILK-DRESSING; TREATMENT OF OAKUM.....17/00, 35/00

#### COMBINATION OF MACHINES OR PROCESSES FOR CONTINUOUS PROCESSING.....21/00

#### WARNING OR SAFETY DEVICES.....31/00

#### HAND TOOLS FOR TREATMENT OF FIBRES.....33/00

#### OTHER PRELIMINARY TREATMENTS.....99/00

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| <p><b>1/00 Severing continuous filaments or long fibres, e.g. stapling</b> (drafting arrangements, twisting arrangements D01H)</p> <p>1/02 • to form staple fibres not delivered in strand form</p> <p>1/04 • • by cutting</p> <p>1/06 • Converting tows to slivers or yarns, e.g. in direct spinning</p> <p>1/08 • • by stretching or abrading</p> <p>1/10 • • by cutting</p> <p><b>3/00 Roughening of fibres</b></p> <p><b>5/00 Separating, e.g. sorting, fibres</b> (separating fibres of differing lengths in silk-dressing machines D01G 17/00; in combing machines D01G 19/00)</p> <p><b>7/00 Breaking or opening fibre bales</b></p> <p>7/02 • by means of beater arms</p> <p>7/04 • by means of toothed members</p> <p>7/06 • Details of apparatus or machines</p> <p>7/08 • • Arrangements for feeding bales to comminuting elements</p> <p>7/10 • • Arrangements for discharging fibres</p> <p>7/12 • • Framework; Casings; Coverings; Grids</p> <p>7/14 • • Driving arrangements</p> <p><b>9/00 Opening or cleaning fibres, e.g. scutching cotton</b> (scutching flax or like fibres D01B; making cellulose wadding in paper-making machines D21F 11/14)</p> <p>9/02 • by agitation within a moving receptacle</p> <p>9/04 • by means of beater arms</p> | <p>9/06 • by means of toothed members</p> <p>9/08 • by means of air draught arrangements</p> <p>9/10 • • using foraminous cylinders (foraminous suction cylinders for lap-forming D01G 25/00)</p> <p>9/12 • Combinations of opening or cleaning machines</p> <p>9/14 • Details of machines or apparatus</p> <p>9/16 • • Feeding arrangements (fibre-feeding apparatus of general application in fibre-treating machines D01G 23/00)</p> <p>9/18 • • Arrangements for discharging fibres</p> <p>9/20 • • Framework; Casings; Coverings; Grids</p> <p>9/22 • • Driving arrangements</p> <p><b>11/00 Disintegrating fibre-containing articles to obtain fibres for re-use</b></p> <p>11/02 • Opening, unravelling, or teasing ropes or like fibrous strands to obtain fibres for re-use</p> <p>11/04 • Opening rags to obtain fibres for re-use (mechanical treatment of rags for paper-making D21B)</p> <p><b>13/00 Mixing, e.g. blending, fibres; Mixing non-fibrous materials with fibres</b> (mixing of fibres combined with other operations, e.g. bale-breaking or fibre-opening, <u>see</u> the appropriate groups for such operations)</p> <p><b>15/00 Carding machines or accessories; Card clothing; Burr-crushing or removing arrangements associated with carding or other preliminary-treatment machines</b> (de-burring apparatus or machines operating independently D01B)</p> <p>15/02 • Carding machines</p> |
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## D01G

- 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
- 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)
- 15/48 • • • • 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
- 15/78 • • Arrangements for stripping flats

- 15/80 • • Arrangements for stripping cylinders or rollers
- 15/82 • • Arrangements for confining or removing dust, fly, or the like
- 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
- 19/12 • • 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 regulating of feed
- 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)

**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 [2010.01]**