

# CPC COOPERATIVE PATENT CLASSIFICATION

## D TEXTILES; PAPER

### TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

**D01** **NATURAL OR ARTIFICIAL THREADS OR FIBRES; SPINNING** (metal threads [B21](#); fibres or filaments of softened glass, minerals, or slag [C03B 37/00](#); yarns [D02](#))  
(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.

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

- 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 15/94](#))
- 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

## D01G

- 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](#))}