D01H SPINNING OR TWISTING (unwinding, paying-out, forwarding, winding or coiling filamentary material not intimately associated with spinning or twisting B65H; cores, formers, supports or holders for coiled or wound material, e.g. bobbins B65H; twisting oakum D01G 35/00; crimping or curling of fibres, filaments or yarns D02G 1/00; making chenille D03D, D04D 3/00; testing yarns, rovings, slivers, fibres, or fibre webs G01)

**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.

Kinds or types of spinning or twisting machines; Drafting machines or arrangements: Twisting arrangements

1/00 Spinning or twisting machines in which the product is wound-up continuously (open-end spinning machines D01H 4/00; doubling of yarns B65H 54/004; T; doubled, plied or cabled threads D02G 3/28, e.g. using hollow spindles D02G 3/283; spin-twisting D02G 3/281; threads with alternately “S” and “Z” direction of twist, e.g. self-twist process, D02G 3/286; wrapping strands of filaments or staple fibres by a binder yarn D02G 3/381)

1/003 . [Twisting machines in which twist is imparted from the supply packages, e.g. uptwist]
1/006 . [Twisting machines in which twist is imparted at the paying-out and take-up stations]
1/02 . ring type {arrangements with two or more spinning or twisting devices in combination D01H 7/90}
1/025 . . (with a condensing device between drafting system and spinning unit)
1/04 . flyer type
1/06 . cap type
1/08 . cup, pot or disc type, in which annular masses of yarn are formed by centrifugal action
1/10 . for imparting multiple twist, e.g. two-for-one twisting
1/101 . . (in which multiple twist is imparted at the take-up stations)
1/103 . . . {Two-for-one twisting}
1/105 . . . {Arrangements using hollow spindles, i.e. the yarns are running through the spindle of the unwound bobbins}
1/106 . . . . {Two-for-one twisting}
1/108 . . . . . [for two or more supply bobbins one on top of the other]
1/11 . Spinning by false-twisting { (twisting by false-twisting D01H 7/92; D02G 3/28; increasing the strength of a roving or sliver by false-twisting D01H 7/92, during drafting D01H 5/283)}
1/115 . . using pneumatic means

1/14 . . Details (drafting arrangements D01H 5/00; twisting arrangements D01H 7/00)
1/16 . . Framework; Casings; Coverings {Removal of heat; Means for generating overpressure of air against infiltration of dust; Ducts for electric cables}
1/162 . . . {for ring type}
1/164 . . . {for flyer type}
1/166 . . . {for two-for-one type}
1/168 . . . {Arrangements for the sound-dampening of the machines (in general G10K 11/00)}
1/18 . . Supports for supply packages
1/183 . . . {Overhead suspension devices}
1/186 . . . {for supplying from cans}
1/20 . . Driving or stopping arrangements (for open-end spinning machines D01H 4/12, D01H 4/20, D01H 4/42; safety devices D01H 13/14)
1/22 . . . for rollers (of drafting machines; Roller speed control) (regulating or varying draft D01H 5/32)
1/24 . . . for twisting (or spinning) arrangements, e.g. spindles (braking arrangements for spindles D01H 7/22; interrelated flyer and bobbin drive mechanisms D01H 7/50)
1/241 . . . driven by belt
1/242 . . . driven by toothed wheels
1/243 . . . driven by friction discs
1/244 . . . each spindle driven by an electric motor
1/26 . . . with two or more speeds; with variable-speed arrangements
1/28 . . . for two or more machine elements possessing different characteristics but in operative association
1/30 . . . . with two or more speeds; with variable-speed arrangements
1/305 . . . . {Speed control of the spindles in response to the displacements of the ring rail}
1/32 . . . for complete machines
Kinds or types of spinning or twisting machines; Drafting machines or arrangements; Twisting arrangements

1/34 . . . with two or more speeds; with variable-speed arrangements {, e.g. variation of machine speed according to growing bobbin diameter (responsiveness to reduction in material tension D01H 13/16)}

1/36 . . Package-shaping arrangements, e.g. building motions {, e.g. control for the traversing stroke of ring rails; Stopping ring rails in a predetermined position}

1/365 . . . {for flyer type}

1/38 . . Arrangements for winding reserve lengths of yarn on take-up packages {or spindles}, e.g. transfer tails

1/385 . . . [Removing waste reserve lengths from spindles]

1/40 . . Arrangements for connecting continuously-delivered material to bobbins or the like

1/42 . . Guards or protectors for yarns or threads, e.g. separator plates, anti-ballooning devices (anti-balloononing devices on spindles D01H 7/18)

1/422 . . . {Separator plates}

1/425 . . . {Anti-balloononing rings}

1/427 . . . {Anti-balloononing cylinders, e.g. for two-for-one twist machine (with combined cleaning effect D01H 11/00)}

3/00 Spinning or twisting machines in which the product is wound-up intermittently, e.g. mules

3/02 . . Details (drafting arrangements D01H 5/06; twisting arrangements D01H 7/00)

3/04 . . Carriages; Mechanisms effecting carriage movements

3/06 . . . Carriages; Carriage rails; Squaring motions

3/08 . . . Drawing-out or taking-in motions

3/10 . . . Moving-creel arrangements, e.g. for twiners

3/12 . . . Package-shaping motions; Faller arrangements

3/14 . . . Roller-driving arrangements (drafting arrangements of general application in spinning machines D01H 5/18)

3/16 . . . Spindle-driving arrangements (spindles, spindle bearings, spindle supports D01H 7/04)

3/18 . . . Tin rollers; Driving arrangements intimately associated with tin rollers

3/20 . . . Spindle-driving arrangements during drawing-out or backing-off

3/22 . . . Spindle-driving arrangements during taking-in

3/24 . . . Quadrant motions; Nosing motions

3/26 . . . Driving or stopping arrangements not otherwise provided for; Locking motions (safety devices D01H 13/14) {; Control of machines}

4/00 Open-end spinning machines or arrangements for imparting twist to independently moving fibres separated from slivers; Piecing arrangements therefor; Covering endless core threads with fibres by open-end spinning techniques {arrangements with two or more spinning or twisting devices of different types in combination D01H 7/90}

NOTE

In this group, the expression "open-end spinning" covers such expressions as "break spinning", "ringless spinning", "rotor spinning" and "friction spinning", but does not cover the expression "spinning by false-twisting"

4/02 . . imparting twist by a fluid, e.g. air vortex

4/04 . . imparting twist by contact of fibres with a running surface

4/06 . . co-operating with suction means (D01H 4/08, D01H 4/16 take precedence)

4/08 . . Rotor spinning, i.e. the running surface being provided by a rotor

4/10 . . . Rotors

4/12 . . . Rotor bearings; Arrangements for driving or stopping (control therefor D01H 4/42)

4/14 . . . Rotor driven by an electric motor

4/16 . . . Friction spinning, i.e. the running surface being provided by a pair of closely spaced friction drums, e.g. at least one suction drum {false twisting with friction drums D01H 1/11)

4/18 . . . Friction drums, e.g. arrangement of suction holes

4/20 . . . Drum bearings; Arrangements for driving or stopping (control therefor D01H 4/42)

4/22 . . . Cleaning of running surfaces

4/24 . . . in rotor spinning

4/26 . . . in friction spinning

4/28 . . using electrostatic fields

4/30 . . Arrangements for separating slivers into fibres; Orienting or straightening fibres {, e.g. using guide-rolls}

4/32 . . using opening rollers {stopping of rovings or slivers D01H 13/18}

4/34 . . using air-jet streams

4/36 . . with means for taking away impurities

4/38 . . Channels for feeding fibres to the yarn forming region

4/40 . . Removing running yarn from the yarn forming region, e.g. using tubes

4/42 . . Control of driving or stopping

4/44 . . . in rotor spinning

4/46 . . . in friction spinning

4/48 . . . Piecing arrangements; Control therefor {stopping roving D01H 13/18)

4/50 . . . for rotor spinning

4/52 . . . for friction spinning

5/00 Drafting machines or arrangements {Threading of roving into drafting machine} (arrangements in which draft is dependent on linear movement of take-up spindles, e.g. in mules, D01H 3/00; devices for combing or orienting fibres for open-end spinning machines D01H 4/30; increasing the strength of a roving or sliver by false-twisting D01H 7/92, during drafting D01H 5/28; after drafting and before spinning according to groups D01H 1/02 - D01H 1/08, D01H 7/90; depositing materials in cans after drafting B65H 54/76 + T})

5/005 . . {Arrangements for feeding or conveying the slivers to the drafting machine}

5/02 . . Gill boxes or other drafting machines employing fellers or like pinned bars (lubricating fibres in gill boxes D01G 29/00)

5/04 . . with pinned bars actuated by screw members

5/06 . . Intersecting gill boxes

5/08 . . with bars connected by links, chains, or the like

5/10 . . with pinned bars unconnected with each other but actuated through pressure of one against another

5/12 . . Details
Kinds or types of spinning or twisting machines; Drafting machines or arrangements; Twisting arrangements

5/14 . . . Pinned bars
5/16 . . . Framework; Casings; Coverings
5/18 . . . Drafting machines or arrangements without fallers or like pinned bars
5/20 . . . in which fibres are controlled by contact with stationary or reciprocating surfaces
5/22 . . . in which fibres are controlled by rollers only
5/24 . . . with porcupines or like pinned rotary members
5/26 . . . in which fibres are controlled by one or more endless aprons
5/28 . . . in which fibres are controlled by inserting twist during drafting ((spinning by false-twisting D01H 1/11); mules D01H 3/00 (; twisting by false-twisting D01H 7/92); constructions of false-twist devices D02G 1/04)
5/30 . . . incorporating arrangements for severing continuous filaments, e.g. in direct spinning (converting tows to slivers or yarns D01G 1/06)
5/32 . . . Regulating or varying draft
5/34 . . . by manual adjustments
5/36 . . . according to a pre-arranged pattern, e.g. to produce slubs
5/38 . . . in response to irregularities in material {; Measuring irregularities}
5/385 . . . [employing hydraulic or pneumatic time-delay devices]
5/40 . . . employing mechanical time-delay devices
5/42 . . . employing electrical time-delay devices
5/44 . . . Adjusting drafting elements, e.g. altering ratch
5/46 . . . Loading arrangements
5/48 . . . using weights
5/50 . . . using springs
5/505 . . . {for top roller arms}
5/52 . . . using fluid pressure
5/525 . . . {for top roller arms}
5/54 . . . using magnetic arrangements
5/56 . . . Supports for drafting elements (saddles or top roller arms forming essential components of weighting arrangements D01H 5/48)
5/565 . . . {Top roller arms}
5/58 . . . Arrangements for traversing drafting elements (traversing arrangements for roving guides D01H 13/06)
5/60 . . . Arrangements maintaining drafting elements free of fibre accumulations
5/62 . . . Non-rotary cleaning pads or plates; Scrapers
5/625 . . . {in cooperation with suction or blowing means}
5/64 . . . Rollers or aprons with cleaning surfaces
5/645 . . . {in cooperation with suction or blowing means}
5/66 . . . Suction devices {exclusively: (D01H 5/625 and D01H 5/645 take precedence; in cooperation with thread breakage detecting means D01H 13/1691)}
5/68 . . . Suction end-catchers
5/70 . . . Constructional features of drafting elements
5/72 . . . Fibre-condensing guides (guides for slivers, rovings, or yarns applicable solely for spinning, twisting, curling, or crimping purposes D01H 13/04 (; combined with false twisting before drafting or before spinning according to groups D01H 1/02 - D01H 1/08 : D01H 7/92))
5/74 . . . Rollers {or roller bearings}
5/76 . . . Loose-boss assemblies
5/78 . . . with flutes or other integral surface characteristics
5/80 . . . with covers; Cots or covers
5/82 . . . Arrangements for coupling roller sections
5/84 . . . Porcupines
5/86 . . . Aprons; Apron supports; Apron tensioning arrangements
5/88 . . . Cradles; Tensors
7/00 Spinning or twisting arrangements (for open-end spinning D01H 4/00)
7/02 . . . for imparting permanent twist
7/04 . . . Spindles ((bearings for hollow spindles D01H 7/88); spindle bearings, supports therefor, in general F16C)
7/041 . . . [Spindles with sliding contact bearings (D01H 7/045 takes precedence)]
7/042 . . . [Spindles with rolling contact bearings (D01H 7/045 takes precedence)]
7/044 . . . [Spindles with fluid bearings]
7/045 . . . [Spindles provided with flexible mounting elements for damping vibration or noise, or for avoiding or reducing out-of-balance forces due to rotation (in general F16F 15/00)]
7/047 . . . {with springs}
7/048 . . . {with means using plastic deformation of members}
7/06 . . . Stationary spindles with package-holding sleeves
7/08 . . . Mounting arrangements
7/10 . . . Spindle supports; Rails; Rail supports, e.g. poker guides
7/12 . . . Bolsters; Bearings
7/14 . . . Holding-down arrangements
7/16 . . . Arrangements for coupling bobbins or like to spindles
7/18 . . . Arrangements on spindles for suppressing yarn balloons (thread guards or protectors D01H 1/42)
7/20 . . . Lubricating arrangements
7/22 . . . Braking arrangements
7/2208 . . . {using mechanical means}
7/2216 . . . {with one or two manually actuated shoe-brakes acting on a part of the whorl}
7/2225 . . . {the braking means surrounding nearly the whole periphery of the whorl}
7/2233 . . . {by suppressing the driving means, e.g. by declutching}
7/2241 . . . {the belt being moved off the driven whorl}
7/225 . . . . . . {and the spindle being braked simultaneously}
7/2258 . . . {the pivoted spindle being pulled off the belt}
7/2266 . . . {and braked simultaneously}
7/2275 . . . {using hydraulically or pneumatically operated brakes}
7/2283 . . . {using electromagnetically operated brakes}
7/2291 . . . {characterised by the control of braking means, e.g. operated by a yarn break-detector or tension device}
7/24 . . . Flyer or like arrangements (multiple-twist arrangements D01H 7/86)
Kinds or types of spinning or twisting machines; Drafting machines or arrangements; Twisting arrangements

D01H

7/26 . . . . Flyer constructions
7/28 . . . . arranged to guide material over exterior of legs
7/30 . . . . with guide channels formed in legs, e.g. slubbing flyers
7/32 . . . . with pressing devices
7/34 . . . . with haul pulleys or like arrangements
7/36 . . . . with traversing devices
7/38 . . . . Ring flyers
7/40 . . . . Flyer supports, e.g. rails
7/42 . . . . Arrangements coupling flyers to spindles
7/44 . . . . Drag arrangements for bobbins or flyers
7/46 . . . . Devices attached to, or integral with, flyers for temporarily increasing twist in material passing to them
7/48 . . . . Eyes or like guiding arrangements (D01H 7/46 takes precedence)
7/50 . . . . Interrelated flyer and bobbin drive mechanisms, e.g. winding-on motions for cotton-rovings (variation of machine speed according to growing bobbin diameter D01H 1/34; package-building mechanisms D01H 1/36)
7/52 . . . . Ring-and-traveller arrangements
7/54 . . . . with fixed rings
7/56 . . . . with freely-rotatable rings; with braked or dragged rings (; Lubricating arrangements therefor)
7/565 . . . . (with fluid bearings)
7/58 . . . . with driven rings (; Bearings or braking arrangements therefor)
7/585 . . . . (by fluid driving means)
7/60 . . . . Rings or travellers; Manufacture thereof not otherwise provided for (hand tools for applying travellers to rings D01H 17/02) (; Cleaning means for rings)
7/602 . . . . (Rings)
7/604 . . . . (Travellers)
7/606 . . . . (Driving means for travellers)
7/608 . . . . (Cleaning means for travellers)
7/62 . . . . Arrangements providing lubricant for travellers
7/64 . . . . Ring supports, e.g. ring rails (poker guides or other rail supports D01H 7/10)
7/66 . . . . Cap arrangements
7/68 . . . . Cap constructions
7/70 . . . . Arrangements for supporting caps on spindles
7/72 . . . . Bobbin-supporting arrangements, e.g. bobbin rails (poker guides or other rail supports D01H 7/10)
7/74 . . . . Cup or like arrangements
7/76 . . . . Rotary discs
7/78 . . . . Constructions of cups, e.g. spinning boxes
7/80 . . . . adapted to collect wet yarns
7/82 . . . . Casings or guards for rotary cups or the like
7/84 . . . . Spindles or yarn carriers for co-operation with rotary cups (removing yarn from centrifugal cups on to yarn carriers D01H 9/06)
7/86 . . . . Multiple-twist arrangements, e.g. two-for-one twisting devices (Threading of yarn; Devices in hollow spindles for imparting false twist)
7/862 . . . . (Arrangements for holding the bobbin in a fixed position)
7/864 . . . . (Coupling devices between the fixed and the rotative parts)
7/866 . . . . (Means to facilitate the unwinding of yarn)
7/868 . . . . (Yarn guiding means, e.g. guiding tubes)
7/88 . . . . Hollow-spindle arrangements (D01H 7/86 takes precedence)
7/90 . . . . Arrangements with two or more {spinning or} twisting devices {of different types} in combination ([(D01H 1/006); D01H 7/86; D01H 7/28) take precedence]
7/92 . . . . for imparting transient twist, {i.e. false twist (D01H 1/11) takes precedence)}
7/923 . . . . (by means of rotating devices)
7/926 . . . . (by means of traversing devices)

Common features or details of, or accessories for, spinning or twisting machines of various kinds or types (drafting arrangements D01H 5/00; twisting arrangements D01H 7/00)

9/00 Arrangements for replacing or removing bobbins, cores, receptacles, or completed packages at paying-out or take-up stations (arrangements of general interest in the winding of filamentary material (B65H 67/00) (}; Combination of spinning-winding machine)
9/001 . . . . (Bobbin-taking arrangements)
9/003 . . . . (Graspers operating under the action of a fluid)
9/005 . . . . (for removing empty packages or cans and replacing by completed (full) packages or cans at paying-out stations; also combined with piecing of the roving)
9/006 . . . . (for two-for-one twist type machines)
9/008 . . . . (for cans)
9/002 . . . . for removing completed take-up packages and replacing by bobbins, cores, or receptacles at take-up stations; Transferring material between adjacent full and empty take-up elements
9/004 . . . . Doffing arrangements integral with spinning or twisting machines
9/003 . . . . (for cap type machines)
9/0046 . . . . (for flyer type machines)
9/06 . . . . Removing yarn from centrifugal cups on to yarn carriers
9/008 . . . . Doffing arrangements independent of spinning or twisting machines
9/10 . . . . Doffing carriages (; Loading carriages with cores)
9/12 . . . . Manual cop-tube applying apparatus; Stands for cop-tube applying apparatus
9/14 . . . . for preparing machines for doffing of yarns, {e.g. raising cops prior to removal} (stop motions responsive to delivery of a measured length of material D01H 13/24)
9/16 . . . . Yarn-severing arrangements, {e.g. for cutting transfer tails; Separating of roving in flyer}
9/18 . . . . for supplying bobbins, cores, receptacles, or completed packages to, or transporting from, paying-out or take-up stations (D01H 9/10 takes precedence) (; Arrangements to prevent unwinding of roving from roving bobbins (transporting full yarn bobbins to subsequent machines B65H 67/06+T))
9/182 . . . . (Overhead conveying devices)
9/185 . . . . (Transporting cans)
Common features or details of, or accessories for, spinning or twisting machines of various kinds or types

**11/00** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

- [with blowing and/or suction devices (in general A47L 7/00); in cooperation with thread breakage detecting means D01H 13/1691)
- [travelling along the machines]
- [with static field means]

**13/00** Other common constructional features, details or accessories (for open-end spinning D01H 4/00)

- [Service carriages travelling along the machines (characteristics relating to the apparatus supported by the carriage, see relevant groups, e.g. D01H 9/005, D01H 9/10; D01H 13/145, D01H 15/00)]
- [Roller arrangements not otherwise provided for]
- [Guides for slivers, rovings, or yarns; Smoothing dies (fibre-condensing guides D01H 5/72 ; means to facilitate the unwinding of yarn in multiple-twist arrangements D01H 7/866)]

**13/04** Arrangements facilitating the inspection or testing of yarns or the like in connection with spinning or twisting

- [for double-twist spindle]
- [for twin-twist spindle]
- [Regulating tension by regulating delivery of yarn from supply package D01H 13/108 takes precedence)]

- [Regulating tension by devices acting on running yarn and not associated with supply or take-up devices]

**13/08** Traversing arrangements

**13/10** Tension devices

- [Regulating tension by regulating speed of driving mechanisms of unwinding, paying-out, forwarding, winding or depositing devices, e.g. automatically in response to variations in tension]

**13/12** Arrangements preventing snarls or inadvertent doubling of yarns (suction end-catchers D01H 5/68)

**13/14** Warning or safety devices, e.g. automatic fault detectors, stop motions; [Monitoring the entanglement of slivers in drafting arrangements; (safety devices of general application F16P; indicating devices of general application G08B)]

**13/16** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/1608** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/1616** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/1625** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/1633** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/1641** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/1645** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/1658** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/1666** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/1675** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/1683** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/1691** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/18** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/181** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/182** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/183** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/185** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/186** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/187** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/188** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/190** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

**13/192** Arrangements for confining or removing dust, fly, or the like (cleaning of running surfaces in open-end spinning machines D01H 4/22; separation in general B01D; cleaning in general B08B; air-conditioning F24F, e.g. by filtering F24F 3/16)

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<table>
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<tr>
<th>Code</th>
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<tr>
<td>2700/20</td>
<td>Spinning mules; Transmissions</td>
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<td>2700/202</td>
<td>Carriages or their movement; Lubrication</td>
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<td>2700/205</td>
<td>Spindles or spindle control in spinning mules</td>
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<td>2700/207</td>
<td>Yarn delivery rollers; Drawing systems for spinning mules; Silver rollers</td>
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<td>2700/21</td>
<td>Piecing or cleaning in spinning mules</td>
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<td>2700/22</td>
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<td>2700/24</td>
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<td>2700/242</td>
<td>Spinning or twisting devices wherein twist is created during winding</td>
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<td>2700/245</td>
<td>Conception or fabrication of drafting cylinders</td>
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<td>2700/247</td>
<td>Guiding means for veil or sliver on drafting systems</td>
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