

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)

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

- | | | | |
|-------------|---|-------|--|
| | | 1/108 | {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 5/28)} |
| | | 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 |
| 1/00 | Spinning or twisting machines in which the product is wound-up continuously (open-end spinning machines D01H 4/00 {; doubling of yarns B65H 54/00+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 3/38) | | |
| 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 | | |
| | <u>WARNING</u> | | |
| | Group D01H 1/10 is impacted by reclassification into group D07B 3/022 . | | |
| | Groups D01H 1/10 and D07B 3/022 should be considered in order to perform a complete search. | | |
| 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} | | |

1/30 with two or more speeds; with variable-speed arrangements	4/00	<p>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)}</p> <p>NOTE</p> <p>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"</p>
1/305	. . . . . {Speed control of the spindles in response to the displacements of the ring rail}	
1/32	. . . for complete machines		
1/34	. . . . with two or more speeds; with variable-speed arrangements {, e.g. variation of machine speed according to growing bobbin diameter (responsive 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}	4/02	
1/38	. . Arrangements for winding reserve lengths of yarn on take-up packages {or spindles}, e.g. transfer tails	4/04	
1/385	. . . {Removing waste reserve lengths from spindles}	4/06	
1/40	. . Arrangements for connecting continuously-delivered material to bobbins or the like	4/08	
1/42	. . Guards or protectors for yarns or threads, e.g. separator plates, anti-ballooning devices (anti-ballooning devices on spindles D01H 7/18)	4/10	
1/422	. . . {Separator plates}	4/12	
1/425	. . . {Anti-ballooning rings}	4/14	
1/427	. . . {Anti-ballooning cylinders, e.g. for two-for-one twist machine (with combined cleaning effect D01H 11/00)}	4/16	
3/00	Spinning or twisting machines in which the product is wound-up intermittently, e.g. mules	4/18	
3/02	. Details (drafting arrangements D01H 5/00 ; twisting arrangements D01H 7/00)	4/20	
3/04	. . Carriages; Mechanisms effecting carriage movements	4/22	
3/06	. . . Carriages; Carriage rails; Squaring motions	4/24	
3/08	. . . Drawing-out or taking-in motions	4/26	
3/10	. . . Moving-creel arrangements, e.g. for twiners	4/28	
3/12	. . Package-shaping motions; Faller arrangements	4/30	
3/14	. . Roller-driving arrangements (drafting arrangements of general application in spinning machines D01H 5/18)	4/32	
3/16	. . Spindle-driving arrangements (spindles, spindle bearings, spindle supports D01H 7/04)	4/34	
3/18	. . . Tin rollers; Driving arrangements intimately associated with tin rollers	4/36	
3/20	. . . Spindle-driving arrangements during drawing-out or backing-off	4/38	
3/22	. . . Spindle-driving arrangements during taking-in	4/40	
3/24	. . . . Quadrant motions; Nosing motions	4/42
3/26	. . Driving or stopping arrangements not otherwise provided for; Locking motions (safety devices D01H 13/14); Control of machines}	4/44	
		4/46	
		4/48	
		4/50	
		4/52	
		 Rotor driven by an electric motor
			. . . Rotor bearings; Arrangements for driving or stopping (control therefor D01H 4/42)
		 Rotor spinning, i.e. the running surface being provided by a rotor
		 Rotor 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)}
		 Friction drums, e.g. arrangement of suction holes
		 Drum bearings; Arrangements for driving or stopping (control therefor D01H 4/42)
		 Cleaning of running surfaces
		 in rotor spinning
		 in friction spinning
		 using electrostatic fields
		 Arrangements for separating slivers into fibres; Orienting or straightening fibres {, e.g. using guide-rolls}
		 using opening rollers {(stopping of rovings or slivers D01H 13/18)}
		 using air-jet streams
		 with means for taking away impurities
		 Channels for feeding fibres to the yarn forming region
		 Removing running yarn from the yarn forming region, e.g. using tubes
		 Control of driving or stopping
		 in rotor spinning
		 in friction spinning
		 Piecing arrangements; Control therefor {(stopping roving D01H 13/18)}
		 for rotor spinning
		 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 fallers 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
 - 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	7/608	. . . . . {Cleaning means for travellers}
7/22	. . . Braking arrangements	7/62	. . . Arrangements providing lubricant for travellers
7/2208	. . . . {using mechanical means}	7/64	. . . Ring supports, e.g. ring rails (poker guides or other rail supports D01H 7/10)
7/2216	. . . . . {with one or two manually actuated shoe-brakes acting on a part of the whorl}	7/66	. . Cap arrangements
7/2225	. . . . . {the braking means surrounding nearly the whole periphery of the whorl}	7/68	. . . Cap constructions
7/2233	. . . . . {by suppressing the driving means, e.g. by declutching}	7/70	. . . Arrangements for supporting caps on spindles
7/2241	. . . . . {the belt being moved off the driven whorl}	7/72	. . . Bobbin-supporting arrangements, e.g. bobbin rails (poker guides or other rail supports D01H 7/10)
7/225	. . . . . {and the spindle being braked simultaneously}	7/74	. . Cup or like arrangements
7/2258	. . . . . {the pivoted spindle being pulled off the belt}	7/76	. . . Rotary discs
7/2266	. . . . . {and braked simultaneously}	7/78	. . . Constructions of cups, e.g. spinning boxes
7/2275	. . . . {using hydraulically or pneumatically operated brakes}	7/80	. . . . adapted to collect wet yarns
7/2283	. . . . {using electromagnetically operated brakes}	7/82	. . . Casings or guards for rotary cups or the like
7/2291	. . . . {characterised by the control of braking means, e.g. operated by a yarn break-detector or tension device}	7/84	. . . Spindles or yarn carriers for co-operation with rotary cups (removing yarn from centrifugal cups on to yarn carriers D01H 9/06)
7/24	. . Flyer or like arrangements (multiple-twist arrangements D01H 7/86)	7/86	. . Multiple-twist arrangements, e.g. two-for-one twisting devices {Threading of yarn; Devices in hollow spindles for imparting false twist}
7/26	. . . Flyer constructions	7/862	. . . {Arrangements for holding the bobbin in a fixed position}
7/28	. . . . arranged to guide material over exterior of legs	7/864	. . . {Coupling devices between the fixed and the rotative parts}
7/30	. . . . with guide channels formed in legs, e.g. slubbing flyers	7/866	. . . {Means to facilitate the unwinding of yarn}
7/32	. . . . . with pressing devices	7/868	. . . {Yarn guiding means, e.g. guiding tubes}
7/34	. . . . . with haul pulleys or like arrangements	7/88	. . Hollow-spindle arrangements (D01H 7/86 takes precedence)
7/36	. . . . . with traversing devices	7/90	. . Arrangements with two or more {spinning or} twisting devices {of different types} in combination ({ D01H 1/006 }, D01H 7/86 , D01H 7/88 take precedence)
7/38	. . . . Ring flyers	7/92	. . for imparting transient twist {, i.e. false twist (D01H 1/11 takes precedence)}
7/40	. . . Flyer supports, e.g. rails	7/923	. . {by means of rotating devices}
7/42	. . . Arrangements coupling flyers to spindles	7/926	. . {by means of traversing devices}
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-roving frames ({ variation of machine speed according to growing bobbin diameter D01H 1/34 }; package-building mechanisms D01H 1/36)	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
7/52	. . Ring-and-traveller arrangements	9/001	. {Bobbin-taking arrangements}
7/54	. . . with fixed rings	9/003	. . {Graspers operating under the action of a fluid}
7/56	. . . with freely-rotatable rings; with braked or dragged rings {; Lubricating arrangements therefor}	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}
7/565	. . . . {with fluid bearings}	9/006	. . {for two-for-one twist type machines}
7/58	. . . with driven rings {; Bearings or braking arrangements therefor}	9/008	. . {for cans}
7/585	. . . . {by fluid driving means}	9/02	. 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
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}	9/04	. . Doffing arrangements integral with spinning or twisting machines
7/602	. . . . {Rings}	9/043	. . . {for cap type machines}
7/604	. . . . {Travellers}	9/046	. . . {for flyer type machines}
7/606	. . . . . {Driving means for travellers}		

9/06	. . . Removing yarn from centrifugal cups on to yarn carriers	13/12	. Arrangements preventing snarls or inadvertent doubling of yarns (suction end-catchers D01H 5/68)
9/08	. . Doffing arrangements independent of spinning or twisting machines	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)
9/10	. . . Doffing carriages {; Loading carriages with cores}		
9/12	. . . Manual cop-tube applying apparatus; Stands for cop-tube applying apparatus	13/145	. . {set on carriages travelling along the machines; Warning or safety devices pulled along the working unit by a band or the like}
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)	13/16	. . responsive to reduction in material tension, failure of supply, or breakage, of material
9/16	. . Yarn-severing arrangements {, e.g. for cutting transfer tails; Separating of roving in flyer}	13/1608	. . . {where the paying-out and take-up stations are stopped at one and the same time}
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)}	13/1616	. . . {characterised by the detector}
		13/1625	. . . . {Electro-mechanical actuators}
		13/1633	. . . . {Electronic actuators}
		13/1641	. . . . . {Capacitor sensing means}
		13/165	. . . . . {Photo-electric sensing means}
		13/1658	. . . . . {Associated actuators with mutual actuation, e.g. for two or more running yarns}
9/182	. . {Overhead conveying devices}	13/1666	. . . . . {Lighting or luminous devices making easier the setting of the breakage of yarns}
9/185	. . {Transporting cans}		
9/187	. . {on individual supports, e.g. pallets}	13/1675	. . . . . {Pencil of rays on side of machines}
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 , F24F 8/10)	13/1683	. . . . . {Pneumatic sensing means}
		13/1691	. . . . . {Thread breakage detector means associated with pneumatic cleaning devices, e.g. suction of broken end of yarn}
11/001	. {Hand tools used for cleaning the machines}	13/18	. . . stopping supply only
11/003	. . {with a rotary pin}	13/181	. . . . . {by stopping supply packages}
11/005	. {with blowing and/or suction devices (in general A47L 7/00 ; in cooperation with thread breakage detecting means D01H 13/1691)}	13/182	. . . . . {by raising or lifting of one of the drafting cylinders, e.g. by removing of the loading means}
11/006	. . {travelling along the machines}	13/183	. . . . . {the yarn moving out of its normal path, e.g. by lateral diverting}
11/008	. {with static field means}	13/185	. . . . . {a plate moving in the nip of drafting or guiding cylinders}
13/00	Other common constructional features, details or accessories (for open-end spinning D01H 4/00)	13/186	. . . . . {guiding or drafting cylinders moving by gravity when a yarn breakage occurs}
13/005	. {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)}	13/187	. . . . . {using means stopping the driving of the drafting, guiding cylinders, e.g. friction clutches}
13/02	. Roller arrangements not otherwise provided for	13/188	. . . . . {by cutting or clamping yarns or rovings}
13/04	. 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)}	13/20	. . responsive to excessive tension or irregular operation of apparatus
13/045	. . {Guide tube}	13/22	. . responsive to presence of irregularities in running material
13/06	. . Traversing arrangements	13/24	. . responsive to delivery of a measured length of material, completion of winding of a package or filling of a receptacle
13/08	. Twist arresters	13/26	. Arrangements facilitating the inspection or testing of yarns or the like in connection with spinning or twisting
13/10	. Tension devices		
13/102	. . {Regulating tension by regulating delivery of yarn from supply package (D01H 13/108 takes precedence)}	13/28	. Heating or cooling arrangements {for yarns (removal of heat from machines D01H 1/16)}
13/104	. . {Regulating tension by devices acting on running yarn and not associated with supply or take-up devices}	13/30	. Moistening, sizing, oiling, waxing, colouring, or drying yarns or the like as incidental measures during spinning or twisting
13/106	. . . {for double-twist spindle}	13/302	. . {Moistening, e.g. for wet spinning}
13/108	. . {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}	13/304	. . {Conditioning during spinning or twisting (for carding or combing D01G 99/005)}
		13/306	. . {by applying fluids, e.g. steam or oiling liquids}
		13/308	. . {by applying solids, e.g. wax}

- 13/32 . Counting, measuring, recording or registering devices (in general, [see the appropriate subclass of Section G](#), e.g. {[G01B 21/12](#), [G01N 33/36](#)})
- 15/00** **Piecing arrangements** (for open-end spinning machines [D01H 4/48](#); in machines for producing textile fabrics, [see the appropriate subclasses](#)); **Automatic end-finding, e.g. by suction and reverse package rotation; Devices for temporarily storing yarn during piecing** (piecing of rovings in combination with replacing of completed packages or cans [D01H 9/005](#))
- 15/002 . {for false-twisting spinning machines }
- 15/004 . {for centrifugal spinning machines }
- 15/007 . for two-for-one twisting machines
- 15/013 . Carriages travelling along the machines
- 17/00** **Hand tools** ([cop-tube applying apparatus D01H 9/12](#))
- 17/02 . Arrangements for storing ring travellers; Devices for applying travellers to rings

2700/00 **Spinning or twisting machines; Drafting devices**

- 2700/01 . Preparatory spinning machines
- 2700/20 . Spinning mules; Transmissions
- 2700/202 . . Carriages or their movement; Lubrication
- 2700/205 . . Spindles or spindle control in spinning mules
- 2700/207 . . Yarn delivery rollers; Drawing systems for spinning mules; Silver rollers
- 2700/21 . Piecing or cleaning in spinning mules
- 2700/22 . Winding devices for spinning mules
- 2700/24 . Spinning or twisting machines of different kinds
- 2700/242 . . Spinning or twisting devices wherein twist is created during winding
- 2700/245 . Conception or fabrication of drafting cylinders
- 2700/247 . Guiding means for veil or sliver on drafting systems