

# 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 (twisting oakum [D01G 35/00](#); crimping or curling of fibres, filaments, or yarns [D02G 1/00](#))

##### 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

|             |       |  |
|-------------|-------|--|
|             | 1/16  | . . Framework; Casings; Coverings {Removal of heat; Means for generating overpressure of air against infiltration of dust; Ducts for electric cables}  |
| <b>1/00</b> |       | <b>Spinning or twisting machines in which the product is wound-up continuously (open-end spinning machines <a href="#">D01H 4/00</a> {; doubling of yarns <a href="#">B65H 54/00+T</a>; doubled, plied or cabled threads <a href="#">D02G 3/28</a>, e.g. using hollow spindles <a href="#">D02G 3/283</a>; spin-twisting <a href="#">D02G 3/281</a>; threads with alternately "S" and "Z" direction of twist, e.g. self-twist process, <a href="#">D02G 3/286</a>; wrapping strands of filaments or staple fibres by a binder yarn <a href="#">D02G 3/38</a>)}</b> |
|             | 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 <a href="#">G10K 11/00</a> )}  |
|             | 1/18  | . . Supports for supply packages   |
|             | 1/183 | . . . {Overhead suspension devices}  |
| 1/003       | 1/186 | . . . {for supplying from cans}  |
| 1/006       | 1/20  | . . Driving or stopping arrangements (for open-end spinning machines <a href="#">D01H 4/12</a> , <a href="#">D01H 4/20</a> , <a href="#">D01H 4/42</a> ; safety devices <a href="#">D01H 13/14</a> )   |
| 1/02        | 1/22  | . . . for rollers {of drafting machines; Roller speed control}(regulating or varying draft <a href="#">D01H 5/32</a> )   |
| 1/025       | 1/24  | . . . for twisting {or spinning} arrangements, e.g. spindles (braking arrangements for spindles <a href="#">D01H 7/22</a> ; interrelated flyer and bobbin drive mechanisms <a href="#">D01H 7/50</a> )   |
| 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        | 1/241 | . . . . driven by belt   |
|             | 1/242 | . . . . driven by toothed wheels   |
|             | 1/243 | . . . . driven by friction discs   |
| 1/101       | 1/244 | . . . . each spindle driven by an electric motor   |
|             | 1/26  | . . . . with two or more speeds; with variable-speed arrangements  |
| 1/103       |       | . . . {Two-for-one twisting}   |
| 1/105       | 1/28  | . . . for two or more machine elements possessing different characteristics but in operative association   |
| 1/106       | 1/30  | . . . . with two or more speeds; with variable-speed arrangements  |
| 1/108       | 1/305 | . . . . . {Speed control of the spindles in response to the displacements of the ring rail}  |
| 1/11        | 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 <a href="#">D01H 13/16</a> )}   |
| 1/115       |       | . . using pneumatic means  |
| 1/14        |       | . Details (drafting arrangements <a href="#">D01H 5/00</a> ; twisting arrangements <a href="#">D01H 7/00</a> )   |

|             |  |             |   |
|-------------|--|-------------|---|
| 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}  | 4/10        | . . . Rotors  |
| 1/365       | . . . {for flyer type}   | 4/12        | . . . Rotor bearings; Arrangements for driving or stopping (control therefor <a href="#">D01H 4/42</a> )  |
| 1/38        | . . Arrangements for winding reserve lengths of yarn on take-up packages {or spindles}, e.g. transfer tails  | 4/14        | . . . . Rotor driven by an electric motor   |
| 1/385       | . . . {Removing waste reserve lengths from spindles}   | 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 <a href="#">D01H 1/11</a> )} |
| 1/40        | . . Arrangements for connecting continuously-delivered material to bobbins or the like   | 4/18        | . . . Friction drums, e.g. arrangement of suction holes   |
| 1/42        | . . Guards or protectors for yarns or threads, e.g. separator plates, anti-ballooning devices (anti-ballooning devices on spindles <a href="#">D01H 7/18</a> )   | 4/20        | . . . Drum bearings; Arrangements for driving or stopping (control therefor <a href="#">D01H 4/42</a> )   |
| 1/422       | . . . {Separator plates}   | 4/22        | . . Cleaning of running surfaces  |
| 1/425       | . . . {Anti-ballooning rings}  | 4/24        | . . . in rotor spinning   |
| 1/427       | . . . {Anti-ballooning cylinders, e.g. for two-for-one twist machine (with combined cleaning effect <a href="#">D01H 11/00</a> )}  | 4/26        | . . . in friction spinning  |
| <b>3/00</b> | <b>Spinning or twisting machines in which the product is wound-up intermittently, e.g. mules</b>   | 4/28        | . using electrostatic fields  |
| 3/02        | . Details (drafting arrangements <a href="#">D01H 5/00</a> ; twisting arrangements <a href="#">D01H 7/00</a> )   | 4/30        | . Arrangements for separating slivers into fibres; Orienting or straightening fibres {, e.g. using guide-rolls}   |
| 3/04        | . . Carriages; Mechanisms effecting carriage movements   | 4/32        | . . using opening rollers {(stopping of rovings or slivers <a href="#">D01H 13/18</a> )}  |
| 3/06        | . . . Carriages; Carriage rails; Squaring motions  | 4/34        | . . using air-jet streams   |
| 3/08        | . . . Drawing-out or taking-in motions   | 4/36        | . . with means for taking away impurities   |
| 3/10        | . . . Moving-creel arrangements, e.g. for twiners  | 4/38        | . Channels for feeding fibres to the yarn forming region  |
| 3/12        | . . Package-shaping motions; Faller arrangements   | 4/40        | . Removing running yarn from the yarn forming region, e.g. using tubes  |
| 3/14        | . . Roller-driving arrangements  | 4/42        | . Control of driving or stopping  |
| 3/16        | . . Spindle-driving arrangements (spindles, spindle bearings, spindle supports <a href="#">D01H 7/04</a> )   | 4/44        | . . in rotor spinning   |
| 3/18        | . . . Tin rollers; Driving arrangements intimately associated with tin rollers   | 4/46        | . . in friction spinning  |
| 3/20        | . . . Spindle-driving arrangements during drawing-out or backing-off   | 4/48        | . Piecing arrangements; Control therefor {(stopping roving <a href="#">D01H 13/18</a> )}  |
| 3/22        | . . . Spindle-driving arrangements during taking-in  | 4/50        | . . for rotor spinning  |
| 3/24        | . . . . Quadrant motions; Nosing motions   | 4/52        | . . for friction spinning   |
| 3/26        | . . Driving or stopping arrangements not otherwise provided for; Locking motions (safety devices <a href="#">D01H 13/14</a> ); Control of machines}  | <b>5/00</b> | <b>Drafting machines or arrangements {; Threading of roving into drafting machine}</b>  |
| <b>4/00</b> | <b>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 <a href="#">D01H 7/90</a>)}</b> | 5/005       | . {Arrangements for feeding or conveying the slivers to the drafting machine}   |
| <b>NOTE</b> | 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"   | 5/02        | . Gill boxes or other drafting machines employing fallers or like pinned bars   |
| 4/02        | . imparting twist by a fluid, e.g. air vortex  | 5/04        | . . with pinned bars actuated by screw members  |
| 4/04        | . imparting twist by contact of fibres with a running surface  | 5/06        | . . . Intersecting gill boxes   |
| 4/06        | . . co-operating with suction means ( <a href="#">D01H 4/08</a> , <a href="#">D01H 4/16</a> take precedence)   | 5/08        | . . with bars connected by links, chains, or the like   |
| 4/08        | . . Rotor spinning, i.e. the running surface being provided by a rotor   | 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   |
|             |  | 5/30        | . . incorporating arrangements for severing continuous filaments, e.g. in direct spinning (converting tows to slivers or yarns <a href="#">D01G 1/06</a> )  |
|             |  | 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
- 5/565 . . . {[Top roller arms](#)}
- 5/58 . . Arrangements for traversing drafting elements
- 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
- 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
- 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
- 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
- 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-roving frames
- 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 {; **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
- 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
- 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
- 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 7/88 takes 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}
- 9/06 . . . Removing yarn from centrifugal cups on to yarn carriers
- 9/08 . . 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**}
- 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}
- 9/187 . . {on individual supports, e.g. pallets}
- 11/00 Arrangements for confining or removing dust, fly or the like (cleaning of running surfaces in open-end spinning machines [D01H 4/22](#))**
- 11/001 . . {Hand tools used for cleaning the machines}
- 11/003 . . {with a rotary pin}
- 11/005 . . {with blowing and/or suction devices ([in general A47L 7/00; in cooperation with thread breakage detecting means \[D01H 13/1691\]\(#\)](#))}
- 11/006 . . {travelling along the machines}
- 11/008 . . {with static field means}
- 13/00 Other common constructional features, details or accessories**
- 13/005 . . {Service carriages travelling along the machines (characteristics relating to the apparatus supported by the carriage, [see relevant groups, e.g. \[D01H 9/005\]\(#\), \[D01H 9/10\]\(#\), \[D01H 13/145\]\(#\), \[D01H 15/00\]\(#\)](#))}
- 13/02 . . Roller arrangements not otherwise provided for
- 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](#))}
- 13/045 . . {Guide tube}
- 13/06 . . Traversing arrangements
- 13/08 . . Twist arresters
- 13/10 . . Tension devices
- 13/102 . . {Regulating tension by regulating delivery of yarn from supply package ([D01H 13/108 takes precedence](#))}
- 13/104 . . {Regulating tension by devices acting on running yarn and not associated with supply or take-up devices}
- 13/106 . . . {for double-twist spindle}
- 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}
- 13/12 . . Arrangements preventing snarls or inadvertent doubling of yarns
- 9/00 Arrangements for replacing or removing bobbins, cores, receptacles, or completed packages at paying-out or take-up stations {; 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}
- 9/02 . . 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
- 9/04 . . Doffing arrangements integral with spinning or twisting machines
- 9/043 . . . {for cap type machines}
- 9/046 . . . {for flyer type machines}

- 13/14 . Warning or safety devices, e.g. automatic fault detectors, stop motions {; Monitoring the entanglement of slivers in drafting arrangements}
- 13/145 . . {set on carriages travelling along the machines; Warning or safety devices pulled along the working unit by a band or the like}
- 13/16 . . responsive to reduction in material tension, failure of supply, or breakage, of material
- 13/1608 . . . {where the paying-out and take-up stations are stopped at one and the same time}
- 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}
- 13/1666 . . . . {Lighting or luminous devices making easier the setting of the breakage of yarns}
- 13/1675 . . . . . {Pencil of rays on side of machines}
- 13/1683 . . . . {Pneumatic sensing means}
- 13/1691 . . . {Thread breakage detector means associated with pneumatic cleaning devices, e.g. suction of broken end of yarn}
- 13/18 . . . stopping supply only
- 13/181 . . . . {by stopping supply packages}
- 13/182 . . . . {by raising or lifting of one of the drafting cylinders, e.g. by removing of the loading means}
- 13/183 . . . . {the yarn moving out of its normal path, e.g. by lateral diverting}
- 13/185 . . . . {a plate moving in the nip of drafting or guiding cylinders}
- 13/186 . . . . {guiding or drafting cylinders moving by gravity when a yarn breakage occurs}
- 13/187 . . . . {using means stopping the driving of the drafting, guiding cylinders, e.g. friction clutches}
- 13/188 . . . . {by cutting or clamping yarns or rovings}
- 13/20 . . responsive to excessive tension or irregular operation of apparatus
- 13/22 . . responsive to presence of irregularities in running material
- 13/24 . . responsive to delivery of a measured length of material, completion of winding of a package or filling of a receptacle
- 13/26 . Arrangements facilitating the inspection or testing of yarns or the like in connection with spinning or twisting
- 13/28 . Heating or cooling arrangements {for yarns (removal of heat from machines D01H 1/16)}
- 13/30 . Moistening, sizing, oiling, waxing, colouring, or drying yarns or the like as incidental measures during spinning or twisting
- 13/302 . . {Moistening, e.g. for wet spinning}
- 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

- 15/00** **Piecing arrangements (for open-end spinning machines D01H 4/48){; 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**
- 17/02 . Arrangements for storing ring travellers; Devices for applying travellers to rings

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- 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