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 <u>D01G 35/00</u>; crimping or curling of fibres, filaments, or yarns <u>D02G 1/00</u>)

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.}

	nes of spinning or twisting machines; Drafting arrangements; Twisting arrangements	1/16	• • Framework; Casings; Coverings {; Removal of heat; Means for generating overpressure of air against infiltration of dust; Ducts for electric
1/00	Spinning or twisting machines in which the product is wound-up continuously (open-end		cables}
	spinning machines <u>D01H 4/00</u> {; doubling of yarns	1/162	• • {for ring type}
	B65H $54/00+$ T ; doubled, plied or cabled threads	1/164	• • { for flyer type }
	D02G 3/28, e.g. using hollow spindles D02G 3/283;	1/166	• • { for two-for-one type}
	spin-twisting <u>D02G 3/281</u> ; threads with alternately "S" and "Z" direction of twist, e.g. self-twist process,	1/168	• • { Arrangements for the sound-dampening of the machines (in general <u>G10K 11/00</u>)}
	D02G 3/286; wrapping strands of filaments or staple	1/18	Supports for supply packages
	fibres by a binder yarn D02G 3/38})	1/183	• • • {Overhead suspension devices}
1/003	• {Twisting machines in which twist is imparted from	1/186	{for supplying from cans}
1/003	the supply packages, e.g. uptwist}	1/20	. Driving or stopping arrangements (for open-
1/006	{Twisting machines in which twist is imparted at the paying-out and take-up stations}		end spinning machines <u>D01H 4/12</u> , <u>D01H 4/20</u> , <u>D01H 4/42</u> ; safety devices <u>D01H 13/14</u>)
1/02	• ring type {(arrangements with two or more spinning	1/22	• • • for rollers {of drafting machines; Roller
	or twisting devices in combination <u>D01H 7/90</u>)}		speed control}(regulating or varying draft D01H 5/32)
1/025	 { with a condensing device between drafting system and spinning unit} 	1/24	for twisting {or spinning} arrangements, e.g. spindles (braking arrangements for spindles)
1/04	. flyer type		<u>D01H 7/22</u> ; interrelated flyer and bobbin drive
1/06	. cap type		mechanisms D01H 7/50)
1/08	 cup, pot or disc type, in which annular masses of 	1/241	· · · · driven by belt
	yarn are formed by centrifugal action	1/242	driven by both driven by toothed wheels
1/10	 for imparting multiple twist, e.g. two-for-one 	1/242	driven by toothed wheels driven by friction discs
	twisting	1/243	-
1/101	• • {in which multiple twist is imparted at the take-up		• • • each spindle driven by an electric motor
	stations}	1/26	• • • with two or more speeds; with variable-speed
1/103	• • • {Two-for-one twisting}	1/28	arrangements
1/105	 {Arrangements using hollow spindles, i.e. the yarns are running through the spindle of the unwound bobbins} 	1/28	 for two or more machine elements possessing different characteristics but in operative association
1/106	• • • {Two-for-one twisting}	1/30	with two or more speeds; with variable-speed
1/108	• • • { for two or more supply bobbins one on top		arrangements
	of the other}	1/305	• • • • {Speed control of the spindles in response to the displacements of the ring rail}
1/11	• Spinning by false-twisting {(twisting by false-	1/32	• • • for complete machines
	twisting D01H 7/92; D02G 3/28; increasing the	1/34	with two or more speeds; with variable-speed
	strength of a roving or sliver by false-twisting <u>D01H 7/92</u> , during drafting <u>D01H 5/28</u>)}	1/37	arrangements {, e.g. variation of machine speed according to growing bobbin diameter
1/115	using pneumatic means		(responsive to reduction in material tension
1/14	 Details (drafting arrangements <u>D01H 5/00</u>; twisting arrangements <u>D01H 7/00</u>) 		D01H 13/16)}

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1/36			
	• Package-shaping arrangements, e.g. building	4/10	Rotors
	motions {, e.g. control for the traversing stroke of ring rails; Stopping ring rails in a predetermined	4/12	Rotor bearings; Arrangements for driving or
	position}	4/1.4	stopping (control therefor D01H 4/42)
1/365	• • • {for flyer type}	4/14	Rotor driven by an electric motor
1/383	Arrangements for winding reserve lengths of yarn	4/16	 Friction spinning, i.e. the running surface being provided by a pair of closely spaced friction
1/30	on take-up packages {or spindles}, e.g. transfer tails		drums, e.g. at least one suction drum {(false twisting with friction drums D01H 1/11)}
1/385	• • • {Removing waste reserve lengths from	4/18	Friction drums, e.g. arrangement of suction
1/40	spindles} Arrangements for connecting continuously-		holes
	delivered material to bobbins or the like	4/20	• • • Drum bearings; Arrangements for driving or stopping (control therefor <u>D01H 4/42</u>)
1/42	. Guards or protectors for yarns or threads, e.g.	4/22	Cleaning of running surfaces
	separator plates, anti-ballooning devices (anti-ballooning devices on spindles <u>D01H 7/18</u>)	4/24	in rotor spinning
1/422	• • { Separator plates }	4/26	in friction spinning
1/425	• • {Separator plates} • • • {Anti-ballooning rings}	4/28	• using electrostatic fields
1/423	Anti-ballooning cylinders, e.g. for two-for-one	4/30	Arrangements for separating slivers into fibres;
1/42/	twist machine (with combined cleaning effect		Orienting or straightening fibres {, e.g. using guiderolls}
	<u>D01H 11/00</u>)}	4/32	• using opening rollers {(stopping of rovings or
3/00	Spinning or twisting machines in which the	4/0.4	slivers <u>D01H 13/18</u>)}
	product is wound-up intermittently, e.g. mules	4/34	. using air-jet streams
3/02	 Details (drafting arrangements <u>D01H 5/00</u>; twisting 	4/36	• with means for taking away impurities
	arrangements D01H 7/00)	4/38	• Channels for feeding fibres to the yarn forming
3/04	 Carriages; Mechanisms effecting carriage 	4/40	region
	movements	4/40	Removing running yarn from the yarn forming
3/06	Carriages; Carriage rails; Squaring motions	4/42	region, e.g. using tubes
3/08	Drawing-out or taking-in motions	4/42	• Control of driving or stopping
3/10	Moving-creel arrangements, e.g. for twiners	4/44	• in rotor spinning
3/12	 Package-shaping motions; Faller arrangements 	4/46	. in friction spinning
3/14	Roller-driving arrangements	4/48	• Piecing arrangements; Control therefor {(stopping
3/16	• • Spindle-driving arrangements (spindles, spindle	4/50	roving D01H 13/18)} • for rotor spinning
	bearings, spindle supports <u>D01H 7/04</u>)	4/50	 for friction spinning for friction spinning
3/18	Tin rollers; Driving arrangements intimately	4/32	• • for friction spinning
2/20	associated with tin rollers Spindle-driving arrangements during drawing-	5/00	Drafting machines or arrangements {; Threading
3/20	out or backing-off	5/005	of roving into drafting machine}
3/22	Spindle-driving arrangements during taking-in	5/005	• {Arrangements for feeding or conveying the slivers
	• • • Spindic-driving arrangements during taking-in		to the drafting machine)
3/24		5/02	to the drafting machine }
3/24 3/26	Quadrant motions; Nosing motions	5/02	. Gill boxes or other drafting machines employing
3/24 3/26			 Gill boxes or other drafting machines employing fallers or like pinned bars
	 Quadrant motions; Nosing motions. Driving or stopping arrangements not otherwise	5/04	 Gill boxes or other drafting machines employing fallers or like pinned bars with pinned bars actuated by screw members
3/26	 Quadrant motions; Nosing motions Driving or stopping arrangements not otherwise provided for; Locking motions (safety devices D01H 13/14) {; Control of machines} 	5/04 5/06	 Gill boxes or other drafting machines employing fallers or like pinned bars with pinned bars actuated by screw members Intersecting gill boxes
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3/26	 Quadrant motions; Nosing motions . Driving or stopping arrangements not otherwise provided for; Locking motions (safety devices D01H 13/14) {; Control of machines} 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) 	5/04 5/06 5/08 5/10	 Gill boxes or other drafting machines employing fallers or like pinned bars with pinned bars actuated by screw members Intersecting gill boxes with bars connected by links, chains, or the like with pinned bars unconnected with each other but actuated through pressure of one against another
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3/26	 Quadrant motions; Nosing motions . Driving or stopping arrangements not otherwise provided for; Locking motions (safety devices D01H 13/14) {; Control of machines} 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 	5/04 5/06 5/08 5/10 5/12 5/14 5/16 5/18 5/20 5/22 5/24	 Gill boxes or other drafting machines employing fallers or like pinned bars with pinned bars actuated by screw members Intersecting gill boxes with bars connected by links, chains, or the like with pinned bars unconnected with each other but actuated through pressure of one against another Details Pinned bars Framework; Casings; Coverings Drafting machines or arrangements without fallers or like pinned bars in which fibres are controlled by contact with stationary or reciprocating surfaces in which fibres are controlled by rollers only with porcupines or like pinned rotary members
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3/26 4/00 4/02	 Quadrant motions; Nosing motions . Driving or stopping arrangements not otherwise provided for; Locking motions (safety devices D01H 13/14) {; Control of machines} 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" imparting twist by a fluid, e.g. air vortex imparting twist by contact of fibres with a running surface 	5/04 5/06 5/08 5/10 5/12 5/14 5/16 5/18 5/20 5/22 5/24 5/26	 Gill boxes or other drafting machines employing fallers or like pinned bars with pinned bars actuated by screw members Intersecting gill boxes with bars connected by links, chains, or the like with pinned bars unconnected with each other but actuated through pressure of one against another Details Pinned bars Framework; Casings; Coverings Drafting machines or arrangements without fallers or like pinned bars in which fibres are controlled by contact with stationary or reciprocating surfaces in which fibres are controlled by rollers only with porcupines or like pinned rotary members in which fibres are controlled by one or more endless aprons in which fibres are controlled by inserting twist during drafting incorporating arrangements for severing
3/26 4/00 4/02	 Quadrant motions; Nosing motions . Driving or stopping arrangements not otherwise provided for; Locking motions (safety devices D01H 13/14) {; Control of machines} 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" imparting twist by a fluid, e.g. air vortex imparting twist by contact of fibres with a running surface co-operating with suction means (D01H 4/08, 	5/04 5/06 5/08 5/10 5/12 5/14 5/16 5/18 5/20 5/22 5/24 5/26	 Gill boxes or other drafting machines employing fallers or like pinned bars with pinned bars actuated by screw members Intersecting gill boxes with bars connected by links, chains, or the like with pinned bars unconnected with each other but actuated through pressure of one against another Details Pinned bars Framework; Casings; Coverings Drafting machines or arrangements without fallers or like pinned bars in which fibres are controlled by contact with stationary or reciprocating surfaces in which fibres are controlled by rollers only with porcupines or like pinned rotary members in which fibres are controlled by one or more endless aprons in which fibres are controlled by inserting twist during drafting incorporating arrangements for severing continuous filaments, e.g. in direct spinning
3/26 4/00 4/02 4/04 4/06	 Quadrant motions; Nosing motions . Driving or stopping arrangements not otherwise provided for; Locking motions (safety devices D01H 13/14) {; Control of machines} 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" imparting twist by a fluid, e.g. air vortex imparting twist by contact of fibres with a running surface co-operating with suction means (D01H 4/08, D01H 4/16 take precedence) 	5/04 5/06 5/08 5/10 5/12 5/14 5/16 5/18 5/20 5/22 5/24 5/26 5/28 5/30	 Gill boxes or other drafting machines employing fallers or like pinned bars with pinned bars actuated by screw members Intersecting gill boxes with bars connected by links, chains, or the like with pinned bars unconnected with each other but actuated through pressure of one against another Details Pinned bars Framework; Casings; Coverings Drafting machines or arrangements without fallers or like pinned bars in which fibres are controlled by contact with stationary or reciprocating surfaces in which fibres are controlled by rollers only with porcupines or like pinned rotary members in which fibres are controlled by one or more endless aprons in which fibres are controlled by inserting twist during drafting incorporating arrangements for severing continuous filaments, e.g. in direct spinning (converting tows to slivers or yarns D01G 1/06)
3/26 4/00 4/02 4/04	 Quadrant motions; Nosing motions . Driving or stopping arrangements not otherwise provided for; Locking motions (safety devices D01H 13/14) {; Control of machines} 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" imparting twist by a fluid, e.g. air vortex imparting twist by contact of fibres with a running surface co-operating with suction means (D01H 4/08, 	5/04 5/06 5/08 5/10 5/12 5/14 5/16 5/18 5/20 5/22 5/24 5/26	 Gill boxes or other drafting machines employing fallers or like pinned bars with pinned bars actuated by screw members Intersecting gill boxes with bars connected by links, chains, or the like with pinned bars unconnected with each other but actuated through pressure of one against another Details Pinned bars Framework; Casings; Coverings Drafting machines or arrangements without fallers or like pinned bars in which fibres are controlled by contact with stationary or reciprocating surfaces in which fibres are controlled by rollers only with porcupines or like pinned rotary members in which fibres are controlled by one or more endless aprons in which fibres are controlled by inserting twist during drafting incorporating arrangements for severing continuous filaments, e.g. in direct spinning

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rungement	,	
5/36	according to a pre-arranged pattern, e.g. to	7/08 Mounting arrangements
5/29	produce slubs in response to irregularities in material {;	7/10 Spindle supports; Rails; Rail supports, e.g.
5/38	Measuring irregularities Measuring irregularities	poker guides 7/12 Bolsters; Bearings
5/385	• • • • {employing hydraulic or pneumatic time-	7/14 Holding-down arrangements
	delay devices}	7/16 Arrangements for coupling bobbins or like to
5/40	employing mechanical time-delay devices	spindles
5/42	employing electrical time-delay devices	7/18 Arrangements on spindles for suppressing yarn
5/44	Adjusting drafting elements, e.g. altering ratch	balloons
5/46 5/48	. Loading arrangements	7/20 Lubricating arrangements 7/22 Braking arrangements
5/48 5/50	using weightsusing springs	7/22 Braking arrangements 7/2208 {using mechanical means}
5/505	• • • using springs • • • • {for top roller arms}	7/2216 { with one or two manually actuated shoe-
5/52	using fluid pressure	brakes acting on a part of the whorl}
5/525	• • • • {for top roller arms}	7/2225 { the braking means surrounding nearly the
5/54	using magnetic arrangements	whole periphery of the whorl}
5/56	 Supports for drafting elements 	7/2233 {by suppressing the driving means, e.g. by
5/565	• • • {Top roller arms}	declutching}
5/58	Arrangements for traversing drafting elements	7/2241 {the belt being moved off the driven whorl}
5/60	Arrangements maintaining drafting elements free of fibre accumulations	7/225 { and the spindle being braked
5/62	of fibre accumulations Non-rotary cleaning pads or plates; Scrapers	simultaneously}
5/625	{in cooperation with suction or blowing	7/2258 {the pivoted spindle being pulled off the
3/023	means}	belt}
5/64	Rollers or aprons with cleaning surfaces	7/2266 {and braked simultaneously}
5/645	• • • {in cooperation with suction or blowing	7/2275 {using hydraulically or pneumatically
	means}	operated brakes} 7/2283 {using electromagnetically operated brakes}
5/66	Suction devices {exclusively; (D01H 5/625 and	7/2291 {characterised by the control of braking
	<u>D01H 5/645</u> take precedence; in cooperation with thread breakage detecting means	means, e.g. operated by a yarn break-detector
	D01H 13/1691)}	or tension device}
5/68	Suction end-catchers	7/24 . Flyer or like arrangements
5/70	Constructional features of drafting elements	7/26 Flyer constructions
5/72	Fibre-condensing guides	7/28 arranged to guide material over exterior of
5/74	• • Rollers {or roller bearings}	legs 7/30 with guide channels formed in legs, e.g.
5/76	Loose-boss assemblies	7/30 with guide channels formed in legs, e.g. slubbing flyers
5/78	with flutes or other integral surface	7/32 with pressing devices
5/90	characteristics	7/34 with haul pulleys or like arrangements
5/80 5/82	 with covers; Cots or covers Arrangements for coupling roller sections	7/36 with traversing devices
5/84	Porcupines	7/38 Ring flyers
5/86	Aprons; Apron supports; Apron tensioning	7/40 Flyer supports, e.g. rails
	arrangements	7/42 Arrangements coupling flyers to spindles
5/88	Cradles; Tensors	7/44 Drag arrangements for bobbins or flyers
7/00	Spinning or twisting arrangements (for open-end	7/46 Devices attached to, or integral with, flyers for temporarily increasing twist in material passing
7700	spinning D01H 4/00)	to them
7/02	• for imparting permanent twist	7/48 Eyes or like guiding arrangements (D01H 7/46)
7/04	Spindles	takes precedence)
7/041	• • • {Spindles with sliding contact bearings	7/50 Interrelated flyer and bobbin drive
E 10.13	$(\underline{D01H7/045} \text{ takes precedence})\}$	mechanisms, e.g. winding-on motions for
7/042	• • {Spindles with rolling contact bearings (D01H 7/045 takes precedence)}	cotton-roving frames
7/044	• • {Spindles with fluid bearings}	7/52 . Ring-and-traveller arrangements7/54 with fixed rings
7/044	Spindles with fluid bearings? Spindles provided with flexible mounting	7/56 with freely-rotatable rings; with braked or
77043	elements for damping vibration or noise, or for	dragged rings {; Lubricating arrangements
	avoiding or reducing out-of-balance forces due	therefor}
	to rotation (in general <u>F16F 15/00</u>)}	7/565 { with fluid bearings}
7/047	• • • { with springs }	7/58 with driven rings {; Bearings or braking
7/048	• • • { with means using plastic deformation of	arrangements therefor}
7/06	members} Stationary spindles with package-holding	7/585 {by fluid driving means}
7/00	sleeves	
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Kinds or types of spinning or twisting machines; Drafting machines or arrangements; Twisting arrangements

arrangement			
7/60	• • Rings or travellers; Manufacture thereof not otherwise provided for {; Cleaning means for	9/06	Removing yarn from centrifugal cups on to yarn carriers
7/602	rings} {Rings}	9/08	Doffing arrangements independent of spinning or twisting machines
7/604	{Travellers}	9/10	Doffing carriages {; Loading carriages with
7/604	{Traveners} {Driving means for travellers}	9/10	cores}
7/608	{Cleaning means for travellers}	9/12	Manual cop-tube applying apparatus; Stands
7/62	Arrangements providing lubricant for travellers	<i>)</i> /12	for cop-tube applying apparatus
7/64	Ring supports, e.g. ring rails	9/14	• • for preparing machines for doffing of yarns {, e.g.
7/66	Cap arrangements		raising cops prior to removal
7/68	Cap constructions	9/16	• Yarn-severing arrangements {, e.g. for cutting
7/70	Arrangements for supporting caps on spindles		transfer tails; Separating of roving in flyer}
7/72	Bobbin-supporting arrangements, e.g. bobbin	9/18	<ul> <li>for supplying bobbins, cores, receptacles, or</li> </ul>
1772	rails		completed packages to, or transporting from,
7/74	Cup or like arrangements		paying-out or take-up stations (D01H 9/10 takes
7/76	Rotary discs		precedence){; Arrangements to prevent unwinding
7/78	Constructions of cups, e.g. spinning boxes		of roving from roving bobbins (transporting
7/80	adapted to collect wet yarns		full yarn bobbins to subsequent machines B65H 67/06+ <b>T</b> )}
7/82	Casings or guards for rotary cups or the like	9/182	• {Overhead conveying devices}
7/84	Spindles or yarn carriers for co-operation with	9/182	<ul><li>. {Overhead conveying devices}</li><li>. {Transporting cans}</li></ul>
	rotary cups	9/183	<ul><li>{ transporting cans}</li><li>{ on individual supports, e.g. pallets}</li></ul>
7/86	Multiple-twist arrangements, e.g. two-for-one	9/10/	• • {on marvidual supports, e.g. panets}
	twisting devices {; Threading of yarn; Devices in	11/00	Arrangements for confining or removing dust, fly
	hollow spindles for imparting false twist}		or the like (cleaning of running surfaces in open-end
7/862	• • • {Arrangements for holding the bobbin in a		spinning machines <u>D01H 4/22</u> )
	fixed position}	11/001	• {Hand tools used for cleaning the machines}
7/864	{Coupling devices between the fixed and the	11/003	• • {with a rotary pin}
	rotative parts}	11/005	• {with blowing and/or suction devices (in general
7/866	• • • {Means to facilitate the unwinding of yarn}		A47L 7/00; in cooperation with thread breakage
7/868	• • • {Yarn guiding means, e.g. guiding tubes}	11/006	detecting means D01H 13/1691)}
7/88	• Hollow-spindle arrangements ( <u>D01H 7/86</u> takes	11/006	• • {travelling along the machines}
7/00	precedence)	11/008	• {with static field means}
7/90	<ul> <li>Arrangements with two or more {spinning or} twisting devices {of different types} in</li> </ul>	13/00	Other common constructional features, details or
	combination (D01H 7/88 takes precedence)		accessories
7/92	• for imparting transient twist {, i.e. false twist	13/005	• {Service carriages travelling along the machines
	(D01H 1/11 takes precedence)}		(characteristics relating to the apparatus
7/923	• • {by means of rotating devices}		supported by the carriage, <u>see</u> relevant groups,
7/926	{by means of traversing devices}		e.g. <u>D01H 9/005</u> , <u>D01H 9/10</u> , <u>D01H 13/145</u> , <u>D01H 15/00</u> )}
		13/02	Roller arrangements not otherwise provided for
	atures or details of, or accessories for, spinning or	13/04	• Guides for slivers, rovings, or yarns; Smoothing
_	chines of various kinds or types (drafting arrangements	15, 0.	dies (fibre-condensing guides <u>D01H 5/72</u> {; means
<u>D01H 5/00;</u>	twisting arrangements D01H 7/00)		to facilitate the unwinding of yarn in multiple-twist
9/00	Arrangements for replacing or removing bobbins,		arrangements D01H 7/866})
	cores, receptacles, or completed packages at	13/045	• • {Guide tube}
	paying-out or take-up stations {; Combination of	13/06	Traversing arrangements
	spinning-winding machine}	13/08	Twist arresters
9/001	• {Bobbin-taking arrangements}	13/10	Tension devices
9/003	• • {Graspers operating under the action of a fluid}	13/102	• • {Regulating tension by regulating delivery of
9/005	• {for removing empty packages or cans and		yarn from supply package (D01H 13/108 takes
	replacing by completed (full) packages or cans at		precedence)}
	paying-out stations; also combined with piecing of the roving}	13/104	• • {Regulating tension by devices acting on running
0/006	<del>-</del> -		yarn and not associated with supply or take-up
9/006 9/008	<ul><li> { for two-for-one twist type machines }</li><li> { for cans }</li></ul>	12/106	devices}
9/008 9/02	<ul><li>• {for cans}</li><li>• for removing completed take-up packages and</li></ul>	13/106 13/108	• • • {for double-twist spindle}
9/02	replacing by bobbins, cores, or receptacles at take-	13/108	<ul> <li>{Regulating tension by regulating speed of driving mechanisms of unwinding, paying-out,</li> </ul>
	up stations; Transferring material between adjacent		forwarding, winding or depositing devices, e.g.
	full and empty take-up elements		automatically in response to variations in tension}
9/04	Doffing arrangements integral with spinning or	13/12	Arrangements preventing snarls or inadvertent
	twisting machines		doubling of yarns
9/043	• • • {for cap type machines}		
9/046	• • • {for flyer type machines}		

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13/14	• Warning or safety devices, e.g. automatic fault detectors, stop motions {; Monitoring the entanglement of slivers in drafting arrangements}
13/145	<ul> <li>• {set on carriages travelling along the machines;</li> <li>Warning or safety devices pulled along the working unit by a band or the like}</li> </ul>
13/16	<ul> <li>responsive to reduction in material tension, failure of supply, or breakage, of material</li> </ul>
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	<ul> <li>• • • {by raising or lifting of one of the drafting cylinders, e.g. by removing of the loading means}</li> </ul>
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	<ul> <li>responsive to excessive tension or irregular operation of apparatus</li> </ul>
13/22	• • responsive to presence of irregularities in running material
13/24	<ul> <li>responsive to delivery of a measured length of material, completion of winding of a package or filling of a receptacle</li> </ul>
13/26	<ul> <li>Arrangements facilitating the inspection or testing of yarns or the like in connection with spinning or twisting</li> </ul>
13/28	• Heating or cooling arrangements {for yarns (removal of heat from machines <u>D01H 1/16</u> )}
13/30	<ul> <li>Moistening, sizing, oiling, waxing, colouring, or drying yarns or the like as incidental measures during spinning or twisting</li> </ul>
13/302	• • {Moistening, e.g. for wet spinning}
13/304	• • {Conditioning during spinning or twisting (for carding or combing <u>D01G 99/005</u> )}
13/306	• • {by applying fluids, e.g. steam or oiling liquids}
13/308	• • {by applying solids, e.g. wax}
13/32	<ul> <li>Counting, measuring, recording or registering</li> </ul>
	devices

15/00	Piecing arrangements (for open-end spinning machines <u>D01H 4/48</u> ){; 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 <u>D01H 9/005</u> )}
15/002	• {for false-twisting spinning machines}
15/004	• {for centrifugal spinning machines}
15/007	<ul> <li>for two-for-one twisting machines</li> </ul>
15/013	<ul> <li>Carriages travelling along the machines</li> </ul>
<b>17/00</b> 17/02	<ul><li>Hand tools</li><li>Arrangements for storing ring travellers; Devices for applying travellers to rings</li></ul>

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	Guilding means for veil or sliver on drafting
	systems

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