

CPC**COOPERATIVE PATENT CLASSIFICATION****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](#))

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

- D01H 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](#)})
- D01H 1/003** . {Twisting machines in which twist is imparted from the supply packages, e.g. up twist}
- D01H 1/006** . {Twisting machines in which twist is imparted at the paying-out and take-up stations}
- D01H 1/02** . ring type ({arrangements with two or more spinning or twisting devices in combination [D01H 7/90](#)})
- D01H 1/025** . . {with a condensing device between drafting system and spinning unit}
- D01H 1/04** . flyer type
- D01H 1/06** . cap type
- D01H 1/08** . cup, pot or disc type, in which annular masses of yarn are formed by centrifugal action
- D01H 1/10** . for imparting multiple twist, e.g. two-for-one twisting
- D01H 1/101** . . {in which multiple twist is imparted at the take-up stations}
- D01H 1/103** . . . {Two-for-one twisting}
- D01H 1/105** . . {Arrangements using hollow spindles, i.e. the yarns are running through the spindle of the unwound bobbins}
- D01H 1/106** . . . {Two-for-one twisting}
- D01H 1/108** {for two or more supply bobbins one on top of the other}
- D01H 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](#)})
- D01H 1/115** . . using pneumatic means
- D01H 1/14** . Details (drafting arrangements [D01H 5/00](#); twisting arrangements [D01H 7/00](#))
- D01H 1/16** . . Framework; Casings; Coverings {Removal of heat; Means for generating overpressure of air against infiltration of dust; Ducts for electric cables}
- D01H 1/162** . . . {for ring type}
- D01H 1/164** . . . {for flyer type}

- D01H 1/166 . . . {for two-for-one type}
- D01H 1/168 . . . {Arrangements for the sound-dampening of the machines (in general [G10K 11/00](#))}
- D01H 1/18 . . Supports for supply packages
- D01H 1/183 . . . {Overhead suspension devices}
- D01H 1/186 . . . {for supplying from cans}
- D01H 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](#))
- D01H 1/22 . . . for rollers {of drafting machines; Roller speed control} (regulating or varying draft [D01H 5/32](#))
- D01H 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](#))
- D01H 1/241 driven by belt
- D01H 1/242 driven by toothed wheels
- D01H 1/243 driven by friction discs
- D01H 1/244 each spindle driven by an electric motor
- D01H 1/26 with two or more speeds; with variable-speed arrangements
- D01H 1/28 . . . for two or more machine elements possessing different characteristics but in operative association
- D01H 1/30 with two or more speeds; with variable-speed arrangements
- D01H 1/305 {Speed control of the spindles in response to the displacements of the ring rail}
- D01H 1/32 . . . for complete machines
- D01H 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](#))}
- D01H 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}
- D01H 1/365 . . . {for flyer type}
- D01H 1/38 . . Arrangements for winding reserve lengths of yarn on take-up packages {or spindles}, e.g. transfer tails
- D01H 1/385 . . . {Removing waste reserve lengths from spindles}
- D01H 1/40 . . Arrangements for connecting continuously-delivered material to bobbins or the like
- D01H 1/42 . . Guards or protectors for yarns or threads, e.g. separator plates, anti-ballooning devices (anti-ballooning devices on spindles [D01H 7/18](#))
- D01H 1/422 . . . {Separator plates}
- D01H 1/425 . . . {Anti-ballooning rings}
- D01H 1/427 . . . {Anti-ballooning cylinders, e.g. for two-for-one twist machine (with combined cleaning effect [D01H 11/00](#))}
- D01H 3/00 Spinning or twisting machines in which the product is wound-up intermittently, e.g. mules**
- D01H 3/02 . Details (drafting arrangements [D01H 5/00](#); twisting arrangements [D01H 7/00](#))

- D01H 3/04 . . Carriages; Mechanisms effecting carriage movements
- D01H 3/06 . . . Carriages; Carriage rails; Squaring motions
- D01H 3/08 . . . Drawing-out or taking-in motions
- D01H 3/10 . . . Moving-creel arrangements, e.g. for twiners
- D01H 3/12 . . Package-shaping motions; Faller arrangements
- D01H 3/14 . . Roller-driving arrangements ([drafting arrangements of general application in spinning machines D01H 5/18](#))
- D01H 3/16 . . Spindle-driving arrangements ([spindles, spindle bearings, spindle supports D01H 7/04](#))
- D01H 3/18 . . . Tin rollers; Driving arrangements intimately associated with tin rollers
- D01H 3/20 . . . Spindle-driving arrangements during drawing-out or backing-off
- D01H 3/22 . . . Spindle-driving arrangements during taking-in
- D01H 3/24 Quadrant motions; Nosing motions
- D01H 3/26 . . Driving or stopping arrangements not otherwise provided for; Locking motions ([safety devices D01H 13/14](#)) {[Control of machines](#)}

D01H 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"

- D01H 4/02 . imparting twist by a fluid, e.g. air vortex
- D01H 4/04 . imparting twist by contact of fibres with a running surface
- D01H 4/06 . . co-operating with suction means ([D01H 4/08, D01H 4/16 take precedence](#))
- D01H 4/08 . . Rotor spinning, i.e. the running surface being provided by a rotor
- D01H 4/10 . . . Rotors
- D01H 4/12 . . . Rotor bearings; Arrangements for driving or stopping ([control therefor D01H 4/42](#))
- D01H 4/14 Rotor driven by an electric motor
- D01H 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](#))}
- D01H 4/18 . . . Friction drums, e.g. arrangement of suction holes
- D01H 4/20 . . . Drum bearings; Arrangements for driving or stopping ([control therefor D01H 4/42](#))
- D01H 4/22 . . Cleaning of running surfaces
- D01H 4/24 . . . in rotor spinning
- D01H 4/26 . . . in friction spinning
- D01H 4/28 . using electrostatic fields

- D01H 4/30 . Arrangements for separating slivers into fibres; Orienting or straightening fibres, {e.g. using guide-rolls}
- D01H 4/32 . . using opening rollers {(stopping of rovings or slivers D01H 13/18)}
- D01H 4/34 . . using air-jet streams
- D01H 4/36 . . with means for taking away impurities
- D01H 4/38 . Channels for feeding fibres to the yarn forming region
- D01H 4/40 . Removing running yarn from the yarn forming region, e.g. using tubes
- D01H 4/42 . Control of driving or stopping
- D01H 4/44 . . in rotor spinning
- D01H 4/46 . . in friction spinning
- D01H 4/48 . Piecing arrangements; Control therefor {(stopping roving D01H 13/18)}
- D01H 4/50 . . for rotor spinning
- D01H 4/52 . . for friction spinning

- D01H 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})
- D01H 5/005 . {Arrangements for feeding or conveying the slivers to the drafting machine}
- D01H 5/02 . Gill boxes or other drafting machines employing fallers or like pinned bars (lubricating fibres in gill boxes D01G 29/00)
- D01H 5/04 . . with pinned bars actuated by screw members
- D01H 5/06 . . . Intersecting gill boxes
- D01H 5/08 . . with bars connected by links, chains, or the like
- D01H 5/10 . . with pinned bars unconnected with each other but actuated through pressure of one against another
- D01H 5/12 . . Details
- D01H 5/14 . . . Pinned bars
- D01H 5/16 . . . Framework; Casings; Coverings
- D01H 5/18 . Drafting machines or arrangements without fallers or like pinned bars
- D01H 5/20 . . in which fibres are controlled by contact with stationary or reciprocating surfaces
- D01H 5/22 . . in which fibres are controlled by rollers only
- D01H 5/24 . . . with porcupines or like pinned rotary members
- D01H 5/26 . . in which fibres are controlled by one or more endless aprons
- D01H 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)
- D01H 5/30 . . incorporating arrangements for severing continuous filaments, e.g. in direct spinning (converting tows to slivers or yarns D01G 1/06)
- D01H 5/32 . . Regulating or varying draft

- D01H 5/34 . . . by manual adjustments
- D01H 5/36 . . . according to a pre-arranged pattern, e.g. to produce slubs
- D01H 5/38 . . . in response to irregularities in material; {Measuring irregularities}
- D01H 5/385 {employing hydraulic or pneumatic time-delay devices}
- D01H 5/40 employing mechanical time-delay devices
- D01H 5/42 employing electrical time-delay devices
- D01H 5/44 . . Adjusting drafting elements, e.g. altering ratch
- D01H 5/46 . . Loading arrangements
- D01H 5/48 . . . using weights
- D01H 5/50 . . . using springs
- D01H 5/505 {for top roller arms}
- D01H 5/52 . . . using fluid pressure
- D01H 5/525 {for top roller arms}
- D01H 5/54 . . . using magnetic arrangements
- D01H 5/56 . . Supports for drafting elements (saddles or top roller arms forming essential components of weighting arrangements [D01H 5/48](#))
- D01H 5/565 . . . {Top roller arms}
- D01H 5/58 . . Arrangements for traversing drafting elements (traversing arrangements for roving guides [D01H 13/06](#))
- D01H 5/60 . . Arrangements maintaining drafting elements free of fibre accumulations
- D01H 5/62 . . . Non-rotary cleaning pads or plates; Scrapers
- D01H 5/625 {in cooperation with suction or blowing means}
- D01H 5/64 . . . Rollers or aprons with cleaning surfaces
- D01H 5/645 {in cooperation with suction or blowing means}
- D01H 5/66 . . . Suction devices {exclusively; ([D01H 5/625](#) and [D01H 5/645](#) take precedence; in cooperation with thread breakage detecting means [D01H 13/1691](#))}
- D01H 5/68 Suction end-catchers
- D01H 5/70 . . Constructional features of drafting elements
- D01H 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](#)})
- D01H 5/74 . . . Rollers {or roller bearings}
- D01H 5/76 Loose-boss assemblies
- D01H 5/78 with flutes or other integral surface characteristics
- D01H 5/80 with covers; Cots or covers
- D01H 5/82 Arrangements for coupling roller sections
- D01H 5/84 Porcupines
- D01H 5/86 . . . Aprons; Apron supports; Apron tensioning arrangements
- D01H 5/88 Cradles; Tensors

D01H 7/00	Spinning or twisting arrangements (for open-end spinning D01H 4/00)
D01H 7/02	<ul style="list-style-type: none"> for imparting permanent twist
D01H 7/04	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Spindles (bearings for hollow spindles D01H 7/88; spindle bearings, supports therefor, in general F16C)
D01H 7/041	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Spindles with sliding contact bearings (D01H 7/045 takes precedence)}
D01H 7/042	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Spindles with rolling contact bearings (D01H 7/045 takes precedence)}
D01H 7/044	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {Spindles with fluid bearings}
D01H 7/045	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {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)}
D01H 7/047	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {with springs}
D01H 7/048	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {with means using plastic deformation of members}
D01H 7/06	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Stationary spindles with package-holding sleeves
D01H 7/08	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Mounting arrangements
D01H 7/10	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> Spindle supports; Rails; Rail supports, e.g. poker guides
D01H 7/12	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> Bolsters; Bearings
D01H 7/14	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> Holding-down arrangements
D01H 7/16	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Arrangements for coupling bobbins or like to spindles
D01H 7/18	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Arrangements on spindles for suppressing yarn balloons (thread guards or protectors D01H 1/42)
D01H 7/20	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Lubricating arrangements
D01H 7/22	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Braking arrangements
D01H 7/2208	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {using mechanical means}
D01H 7/2216	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {with one or two manually actuated shoe-brakes acting on a part of the whorl}
D01H 7/2225	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {the braking means surrounding nearly the whole periphery of the whorl}
D01H 7/2233	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {by suppressing the driving means, e.g. by declutching}
D01H 7/2241	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {the belt being moved off the driven whorl}
D01H 7/225	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {and the spindle being braked simultaneously}
D01H 7/2258	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {the pivoted spindle being pulled off the belt}
D01H 7/2266	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {and braked simultaneously}
D01H 7/2275	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {using hydraulically or pneumatically operated brakes}
D01H 7/2283	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {using electromagnetically operated brakes}
D01H 7/2291	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> {characterised by the control of braking means, e.g. operated by a yarn break-detector or tension device}
D01H 7/24	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Flyer or like arrangements (multiple-twist arrangements D01H 7/86)
D01H 7/26	<ul style="list-style-type: none"> <ul style="list-style-type: none"> Flyer constructions
D01H 7/28	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> arranged to guide material over exterior of legs
D01H 7/30	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> with guide channels formed in legs, e.g. slubbing flyers
D01H 7/32	<ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> <ul style="list-style-type: none"> with pressing devices

- D01H 7/34 with haul pulleys or like arrangements
- D01H 7/36 with traversing devices
- D01H 7/38 Ring flyers
- D01H 7/40 Flyer supports, e.g. rails
- D01H 7/42 Arrangements coupling flyers to spindles
- D01H 7/44 Drag arrangements for bobbins or flyers
- D01H 7/46 Devices attached to, or integral with, flyers for temporarily increasing twist in material passing to them
- D01H 7/48 Eyes or like guiding arrangements ([D01H 7/46 takes precedence](#))
- D01H 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](#))
- D01H 7/52 Ring-and-traveller arrangements
- D01H 7/54 with fixed rings
- D01H 7/56 with freely-rotatable rings; with braked or dragged rings; {[Lubricating arrangements therefor](#)}
- D01H 7/565 {[with fluid bearings](#)}
- D01H 7/58 with driven rings; {[Bearings or braking arrangements therefor](#)}
- D01H 7/585 {[by fluid driving means](#)}
- D01H 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](#)}
- D01H 7/602 {[Rings](#)}
- D01H 7/604 {[Travellers](#)}
- D01H 7/606 {[Driving means for travellers](#)}
- D01H 7/608 {[Cleaning means for travellers](#)}
- D01H 7/62 Arrangements providing lubricant for travellers
- D01H 7/64 Ring supports, e.g. ring rails ([poker guides or other rail supports D01H 7/10](#))
- D01H 7/66 Cap arrangements
- D01H 7/68 Cap constructions
- D01H 7/70 Arrangements for supporting caps on spindles
- D01H 7/72 Bobbin-supporting arrangements, e.g. bobbin rails ([poker guides or other rail supports D01H 7/10](#))
- D01H 7/74 Cup or like arrangements
- D01H 7/76 Rotary discs
- D01H 7/78 Constructions of cups, e.g. spinning boxes
- D01H 7/80 adapted to collect wet yarns
- D01H 7/82 Casings or guards for rotary cups or the like
- D01H 7/84 Spindles or yarn carriers for co-operation with rotary cups ([removing yarn from centrifugal cups on to yarn carriers D01H 9/06](#))

- D01H 7/86
 - • Multiple-twist arrangements, e.g. two-for-one twisting devices {Threading of yarn; Devices in hollow spindles for imparting false twist}
- D01H 7/862
 - • • {Arrangements for holding the bobbin in a fixed position}
- D01H 7/864
 - • • {Coupling devices between the fixed and the rotative parts}
- D01H 7/866
 - • • {Means to facilitate the unwinding of yarn}
- D01H 7/868
 - • • {Yarn guiding means, e.g. guiding tubes}
- D01H 7/88
 - • Hollow-spindle arrangements (D01H 7/86 takes precedence)
- D01H 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)
- D01H 7/92
 - for imparting transient twist {i.e. false twist (D01H 1/11 takes precedence)}
- D01H 7/923
 - • {by means of rotating devices}
- D01H 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)

- D01H 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}
- D01H 9/001
 - {Bobbin-taking arrangements}
- D01H 9/003
 - • {Graspers operating under the action of a fluid}
- D01H 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}
- D01H 9/006
 - • {for two-for-one twist type machines}
- D01H 9/008
 - • {for cans}
- D01H 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
- D01H 9/04
 - • Doffing arrangements integral with spinning or twisting machines
- D01H 9/043
 - • • {for cap type machines}
- D01H 9/046
 - • • {for flyer type machines}
- D01H 9/06
 - • • Removing yarn from centrifugal cups on to yarn carriers
- D01H 9/08
 - • Doffing arrangements independent of spinning or twisting machines
- D01H 9/10
 - • • Doffing carriages; {Loading carriages with cores}
- D01H 9/12
 - • • Manual cop-tube applying apparatus; Stands for cop-tube applying apparatus
- D01H 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)
- D01H 9/16
 - • Yarn-severing arrangements, {e.g. for cutting transfer tails; Separating of roving in flyer}

- D01H 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](#))}
- D01H 9/182
 - . {Overhead conveying devices}
- D01H 9/185
 - . {Transporting cans}
- D01H 9/187
 - . {on individual supports, e.g. pallets}
- D01H 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](#))
- D01H 11/001
 - {Hand tools used for cleaning the machines}
- D01H 11/003
 - . {with a rotary pin}
- D01H 11/005
 - {with blowing and/or suction devices (in general [A47L 7/00](#); in cooperation with thread breakage detecting means [D01H 13/1691](#))}
- D01H 11/006
 - . {travelling along the machines}
- D01H 11/008
 - {with static field means}
- D01H 13/00**

Other common constructional features, details or accessories (for open-end spinning [D01H 4/00](#))
- D01H 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](#))}
- D01H 13/02
 - Roller arrangements not otherwise provided for
- D01H 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](#)})
- D01H 13/045
 - . {Guide tube}
- D01H 13/06
 - . Traversing arrangements
- D01H 13/08
 - Twist arresters
- D01H 13/10
 - Tension devices
- D01H 13/102
 - . {Regulating tension by regulating delivery of yarn from supply package ([D01H 13/108](#) takes precedence)}
- D01H 13/104
 - . {Regulating tension by devices acting on running yarn and not associated with supply or take-up devices}
- D01H 13/106
 - . . {for double-twist spindle}
- D01H 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}
- D01H 13/12
 - Arrangements preventing snarls or inadvertent doubling of yarns (suction end-catchers [D01H 5/68](#))
- D01H 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](#))
- D01H 13/145
 - . {set on carriages travelling along the machines; Warning or safety devices pulled along the working unit by a band or the like}

D01H 13/16	<ul style="list-style-type: none"> responsive to reduction in material tension, failure of supply, or breakage, of material
D01H 13/1608	<ul style="list-style-type: none"> {where the paying-out and take-up stations are stopped at one and the same time}
D01H 13/1616	<ul style="list-style-type: none"> {characterised by the detector}
D01H 13/1625	<ul style="list-style-type: none"> {Electro-mechanical actuators}
D01H 13/1633	<ul style="list-style-type: none"> {Electronic actuators}
D01H 13/1641	<ul style="list-style-type: none"> {Capacitor sensing means}
D01H 13/165	<ul style="list-style-type: none"> {Photo-electric sensing means}
D01H 13/1658	<ul style="list-style-type: none"> {Associated actuators with mutual actuation, e.g. for two or more running yarns}
D01H 13/1666	<ul style="list-style-type: none"> {Lighting or luminous devices making easier the setting of the breakage of yarns}
D01H 13/1675	<ul style="list-style-type: none"> {Pencil of rays on side of machines}
D01H 13/1683	<ul style="list-style-type: none"> {Pneumatic sensing means}
D01H 13/1691	<ul style="list-style-type: none"> {Thread breakage detector means associated with pneumatic cleaning devices, e.g. suction of broken end of yarn}
D01H 13/18	<ul style="list-style-type: none"> stopping supply only
D01H 13/181	<ul style="list-style-type: none"> {by stopping supply packages}
D01H 13/182	<ul style="list-style-type: none"> {by raising or lifting of one of the drafting cylinders, e.g. by removing of the loading means}
D01H 13/183	<ul style="list-style-type: none"> {the yarn moving out of its normal path, e.g. by lateral diverting}
D01H 13/185	<ul style="list-style-type: none"> {a plate moving in the nip of drafting or guiding cylinders}
D01H 13/186	<ul style="list-style-type: none"> {guiding or drafting cylinders moving by gravity when a yarn breakage occurs}
D01H 13/187	<ul style="list-style-type: none"> {using means stopping the driving of the drafting, guiding cylinders, e.g. friction clutches}
D01H 13/188	<ul style="list-style-type: none"> {by cutting or clamping yarns or rovings}
D01H 13/20	<ul style="list-style-type: none"> responsive to excessive tension or irregular operation of apparatus
D01H 13/22	<ul style="list-style-type: none"> responsive to presence of irregularities in running material
D01H 13/24	<ul style="list-style-type: none"> responsive to delivery of a measured length of material, completion of winding of a package or filling of a receptacle
D01H 13/26	<ul style="list-style-type: none"> Arrangements facilitating the inspection or testing of yarns or the like in connection with spinning or twisting
D01H 13/28	<ul style="list-style-type: none"> Heating or cooling arrangements {for yarns (removal of heat from machines D01H 1/16)}
D01H 13/30	<ul style="list-style-type: none"> Moistening, sizing, oiling, waxing, colouring, or drying yarns or the like as incidental measures during spinning or twisting
D01H 13/302	<ul style="list-style-type: none"> {Moistening, e.g. for wet spinning}
D01H 13/304	<ul style="list-style-type: none"> {Conditioning during spinning or twisting (for carding or combing D01G 99/005)}
D01H 13/306	<ul style="list-style-type: none"> {by applying fluids, e.g. steam or oiling liquids}
D01H 13/308	<ul style="list-style-type: none"> {by applying solids, e.g. wax}

D01H 13/32	<ul style="list-style-type: none">Counting, measuring, recording or registering devices (in general, see the appropriate subclass of Section G, e.g. {G01B 21/12, G01N 33/36})
D01H 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)}
D01H 15/002	<ul style="list-style-type: none">{for false-twisting spinning machines}
D01H 15/004	<ul style="list-style-type: none">{for centrifugal spinning machines}
D01H 15/007	<ul style="list-style-type: none">for two-for-one twisting machines
D01H 15/013	<ul style="list-style-type: none">Carriages travelling along the machines
D01H 17/00	Hand tools (cop-tube applying apparatus D01H 9/12)
D01H 17/02	<ul style="list-style-type: none">Arrangements for storing ring travellers; Devices for applying travellers to rings
D01H 2700/00	Spinning or twisting machines; Drafting devices
D01H 2700/01	<ul style="list-style-type: none">Preparatory spinning machines
D01H 2700/20	<ul style="list-style-type: none">Spinning mules; Transmissions
D01H 2700/202	<ul style="list-style-type: none"><ul style="list-style-type: none">Carriages or their movement; Lubrication
D01H 2700/205	<ul style="list-style-type: none"><ul style="list-style-type: none">Spindles or spindle control in spinning mules
D01H 2700/207	<ul style="list-style-type: none"><ul style="list-style-type: none">Yarn delivery rollers; Drawing systems for spinning mules; Silver rollers
D01H 2700/21	<ul style="list-style-type: none">Piecing or cleaning in spinning mules
D01H 2700/22	<ul style="list-style-type: none">Winding devices for spinning mules
D01H 2700/24	<ul style="list-style-type: none">Spinning or twisting machines of different kinds
D01H 2700/242	<ul style="list-style-type: none"><ul style="list-style-type: none">Spinning or twisting devices wherein twist is created during winding
D01H 2700/245	<ul style="list-style-type: none">Conception or fabrication of drafting cylinders
D01H 2700/247	<ul style="list-style-type: none">Guiding means for veil or sliver on drafting systems