

**CPC****COOPERATIVE PATENT CLASSIFICATION****D07B**

**ROPES OR CABLES IN GENERAL** (joining ropes or cables to one another or to other objects [B65H 69/00](#), [F16G 11/00](#); {mountaineering ropes [A63B 29/02](#)}; mechanical finishing or dressing of ropes [D02J](#); {braiding [D04C](#)}; decorative ropes or cords [D04D](#); suspension cables for bridges [E01D 19/16](#); specially adapted for driving, or for being driven by, pulleys or other gearing elements [F16G 9/00](#); electric cables or joints insofar as electrical aspects are essential [H01B](#), [H01R](#))

**D07B 1/00****Constructional features of ropes or cables****D07B 1/005**

- {Composite ropes, i.e. ropes built-up from fibrous or filamentary material and metal wires}

**D07B 1/02**

- Ropes built-up from fibrous or filamentary material, e.g. of vegetable origin, of animal origin, regenerated cellulose, plastics

**D07B 1/025**

- . {comprising high modulus, or high tenacity, polymer filaments or fibres, e.g. liquid-crystal polymers}

**D07B 1/04**

- . with a core of fibres or filaments arranged parallel to the centre line

**D07B 1/06**

- Ropes or cables built-up from metal wires, e.g. of section wires around a hemp core

**D07B 1/0606**

- . {Reinforcing cords for rubber or plastic articles}

**D07B 1/0613**

- . . {the reinforcing cords being characterised by the rope configuration}

**D07B 1/062**

- . . {the reinforcing cords being characterised by the strand configuration}

**D07B 1/0626**

- . . . {the reinforcing cords consisting of three core wires or filaments and at least one layer of outer wires or filaments, i.e. a 3+N configuration}

**D07B 1/0633**

- . . . {having a multiple-layer configuration}

**D07B 1/064**

- . . . {the reinforcing cords being twisted and with at least one wire exchanging place with another wire}

**D07B 1/0646**

- . . . {comprising longitudinally preformed wires}

**D07B 1/0653**

- . . . {in the core}

**D07B 1/066**

- . . . {the wires being made from special alloy or special steel composition}

**D07B 1/0666**

- . . . {the wires being characterised by an anti-corrosive or adhesion promoting coating}

**D07B 1/0673**

- . {having a rope configuration}

**D07B 1/068**

- . . {characterised by the strand design}

**D07B 1/0686**

- . . {characterised by the core design}

**D07B 1/0693**

- . {having a strand configuration}

**D07B 1/08**

- . the layers of which are formed of profiled interlocking wires, i.e. the strands forming concentric layers {(D07B 1/0606 takes precedence)}

**D07B 1/10**

- . . with a core of wires arranged parallel to the centre line

**D07B 1/12**

- Ropes or cables with a hollow core

**D07B 1/14**

- Ropes or cables with incorporated auxiliary elements, e.g. for marking, extending throughout the length of the rope or cable

**D07B 1/141**

- . {comprising liquid, pasty or powder agents, e.g. lubricants or anti-corrosive oils or greases}

- D07B 1/142 . . . {for ropes or rope components built-up from fibrous or filamentary material}
- D07B 1/144 . . . {for cables or cable components built-up from metal wires}
- D07B 1/145 . . {comprising elements for indicating or detecting the rope or cable status}
- D07B 1/147 . . {comprising electric conductors or elements for information transfer (D07B 1/145 takes precedence)}
- D07B 1/148 . . {comprising marks or luminous elements}
- D07B 1/16 . . Ropes or cables with an enveloping sheathing or inlays of rubber or plastics (D07B 1/04, D07B 1/10 take precedence)
- D07B 1/162 . . {characterised by a plastic or rubber enveloping sheathing}
- D07B 1/165 . . {characterised by a plastic or rubber inlay}
- D07B 1/167 . . . {having a predetermined shape}
- D07B 1/18 . . Grommets {(slings B66C 1/12)}
- D07B 1/185 . . {characterised by the eye construction}
- D07B 1/20 . . Buoyant ropes, e.g. with air-filled cellular cores; Accessories therefor
- D07B 1/22 . . Flat or flat-sided ropes; Sets of ropes consisting of a series of parallel ropes

### **Manufacture of ropes or cables**

- D07B 3/00** **General-purpose machines or apparatus for producing twisted ropes or cables from component strands of the same or different material**
- D07B 3/005 . . {with alternating twist directions}
- D07B 3/02 . . in which the supply reels rotate about the axis of the rope or cable {or in which a guide member rotates about the axis of the rope or cable to guide the component strands away from the supply reels in fixed position}
- D07B 3/04 . . and are arranged in tandem along the axis of the machine, {e.g. tubular or high-speed type stranding machine}
- D07B 3/045 . . . {with the reels axially aligned, their common axis coinciding with the axis of the machine}
- D07B 3/06 . . and are spaced radially from the axis of the machine, {i.e. basket or planetary-type stranding machine}
- D07B 3/08 . . in which the take-up reel rotates about the axis of the rope or cable {or in which a guide member rotates about the axis of the rope or cable to guide the rope or cable on the take-up reel in fixed position} and the supply reels are fixed in position
- D07B 3/085 . . {in which a guide member rotates about the axis of the rope or cable to guide the rope or cable on the take-up reel in fixed position}
- D07B 3/10 . . with provision for imparting more than one complete twist to the ropes or cables for each revolution of the take-up reel {or of the guide member}
- D07B 3/103 . . . {characterised by the bow construction}
- D07B 3/106 . . . {characterised by comprising two bows, both guiding the same bundle to impart a twist}
- D07B 3/12 . . operating with rotating loops of filaments
- D07B 3/14 . . hand-operated

**D07B 5/00****Making ropes or cables from special materials or of particular form**

D07B 5/002

- {Making parallel wire strands}

D07B 5/005

- {characterised by their outer shape or surface properties}

**WARNING**

Group [D07B 5/005](#) is impacted by reclassification into group [D07B 5/006](#).

Groups [D07B 5/005](#) and [D07B 5/006](#) should be considered in order to perform a complete search.

D07B 5/006

- • {by the properties of an outer surface polymeric coating}

**WARNING**

Group [D07B 5/006](#) is incomplete pending reclassification of documents from group [D07B 5/005](#).

Groups [D07B 5/005](#) and [D07B 5/006](#) should be considered in order to perform a complete search.

D07B 5/007

- {comprising postformed and thereby radially plastically deformed elements}

D07B 5/02

- from straw or like vegetable material

D07B 5/04

- Rope bands

D07B 5/06

- from natural or artificial staple fibres

D07B 5/08

- • agglutinated by adhesives

D07B 5/10

- from strands of non-circular cross-section

D07B 5/12

- of low twist or low tension by processes comprising setting or straightening treatments

**D07B 7/00****Details of, or auxiliary devices incorporated in, rope- or cable-making machines; Auxiliary apparatus associated with such machines**

D07B 7/02

- Machine details; Auxiliary devices

D07B 7/022

- • {Measuring or adjusting the lay or torque in the rope}

D07B 7/025

- • {Preforming the wires or strands prior to closing}

D07B 7/027

- • {Postforming of ropes or strands}

D07B 7/04

- • Devices for imparting reverse rotation to bobbin- or reel cages

D07B 7/06

- • Bearing supports or brakes for supply bobbins or reels

D07B 7/08

- • Alarms or stop motions responsive to exhaustion or breakage of filamentary material fed from supply reels or bobbins

D07B 7/10

- • Devices for taking-up or winding the finished rope or cable

D07B 7/12

- • for softening, lubricating or impregnating ropes, cables, or component strands thereof

D07B 7/14

- • for coating or wrapping ropes, cables, or component strands thereof  
(applying liquids or other fluent materials to surfaces in general [B05](#);  
wrapping elongated cores in general [B65H 81/06](#))

D07B 7/145

- • • {Coating or filling-up interstices}

D07B 7/16

- Auxiliary apparatus

**WARNING**

Group [D07B 7/16](#) is impacted by reclassification into group [D07B 7/169](#).  
Groups [D07B 7/16](#) and [D07B 7/169](#) should be considered in order to perform a complete search.

D07B 7/162

- {Vices or clamps for bending or holding the rope or cable during splicing}

D07B 7/165

- {for making slings}

D07B 7/167

- {for joining rope components}

D07B 7/169

- {for interconnecting two cable or rope ends, e.g. by splicing or sewing (fixation or holding of the ends prior to or during splicing [D07B 7/162](#); joining the rope or cable components individually or joining the rope ends by permanent means such as welding, gluing or crimp sleeve [D07B 7/167](#); preparing the splice by opening the ends [D07B 7/18](#))}

**WARNING**

Group [D07B 7/169](#) is incomplete pending reclassification of documents from group [D07B 7/16](#).

Groups [D07B 7/16](#) and [D07B 7/169](#) should be considered in order to perform a complete search.

D07B 7/18

- for spreading or untwisting ropes or cables into constituent parts for treatment or splicing purposes

**WARNING**

Group [D07B 7/18](#) is impacted by reclassification into groups [D07B 7/182](#), [D07B 7/185](#), and [D07B 7/187](#).

All groups listed in this Warning should be considered in order to perform a complete search.

D07B 7/182

- {for spreading ropes or cables by hand-operated tools for splicing purposes, e.g. needles or spikes}

**WARNING**

Group [D07B 7/182](#) is incomplete pending reclassification of documents from groups [D07B 7/18](#).

Groups [D07B 7/18](#) and [D07B 7/182](#) should be considered in order to perform a complete search.

D07B 7/185

- {for temporarily untwisting ropes or cables into constituent parts for applying a coating}

**WARNING**

Group [D07B 7/185](#) is incomplete pending reclassification of documents from group [D07B 7/18](#).

Groups [D07B 7/18](#) and [D07B 7/185](#) should be considered in order to perform a complete search.

D07B 7/187 . . . {for forming bulbs in ropes or cables}

**WARNING**

Group [D07B 7/187](#) is incomplete pending reclassification of documents from group [D07B 7/18](#).

Groups [D07B 7/18](#) and [D07B 7/187](#) should be considered in order to perform a complete search.

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**D07B 9/00                      Binding or sealing ends, e.g. to prevent unravelling**

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**D07B 2201/00                Ropes or cables**

- D07B 2201/10 . Rope or cable structures
- D07B 2201/1004 . . General structure or appearance
- D07B 2201/1008 . . . Several parallel ropes
- D07B 2201/1012 . . characterised by their internal structure

**WARNING**

Group [D07B 2201/1012](#) is impacted by reclassification into group [D07B 2201/1014](#).

Groups [D07B 7/18](#) and [D07B 7/187](#) should be considered in order to perform a complete search.

- D07B 2201/1014 . . . characterised by being laid or braided from several sub-ropes or sub-cables, e.g. hawsers

**WARNING**

Group [D07B 2201/1014](#) is incomplete pending reclassification of documents from group [D07B 2201/1012](#).

Groups [D07B 2201/1012](#) and [D07B 2201/1014](#) should be considered in order to perform a complete search.

- D07B 2201/1016 . . . characterised by the use of different strands
- D07B 2201/102 . . . including a core
- D07B 2201/1024 . . Structures that change the cross-sectional shape
- D07B 2201/1028 . . characterised by the number of strands
- D07B 2201/1032 . . . three to eight strands respectively forming a single layer
- D07B 2201/1036 . . . nine or more strands respectively forming multiple layers
- D07B 2201/104 . . twisted
- D07B 2201/1044 . . . characterised by a value or range of the pitch parameter given
- D07B 2201/1048 . . . using regular lay, i.e. the wires or filaments being parallel to rope axis
- D07B 2201/1052 . . . using lang lay, i.e. the wires or filaments being inclined relative to the rope axis
- D07B 2201/1056 . . . using alternate lay, i.e. the wires or filaments in the strands being oppositely inclined relative to the rope axis
- D07B 2201/106 . . . Pitch changing over length
- D07B 2201/1064 . . . characterised by lay direction of the strand compared to the lay direction of the wires in the strand

D07B 2201/1068	. . . . having the same lay direction
D07B 2201/1072	. . . Compact winding, i.e. S/S or Z/Z
D07B 2201/1076	. . . Open winding
D07B 2201/108	. . . . Cylinder winding, i.e. S/Z or Z/S
D07B 2201/1084	. . . . Different twist pitch
D07B 2201/1088	. . false twisted
D07B 2201/1092	. . Parallel strands
D07B 2201/1096	. . braided
D07B 2201/20	. Rope or cable components
D07B 2201/2001	. . Wires or filaments
D07B 2201/2002	. . . characterised by their cross-sectional shape
D07B 2201/2003	. . . . flat
D07B 2201/2004	. . . . triangular
D07B 2201/2005	. . . . oval
D07B 2201/2006	. . . characterised by a value or range of the dimension given
D07B 2201/2007	. . . characterised by their longitudinal shape
D07B 2201/2008	. . . . wavy or undulated
D07B 2201/2009	. . . characterised by the materials used
D07B 2201/201	. . . characterised by a coating
D07B 2201/2011	. . . . comprising metals
D07B 2201/2012	. . . . comprising polymers
D07B 2201/2013	. . . . comprising multiple layers
D07B 2201/2014	. . . Compound wires or compound filaments
D07B 2201/2015	. . Strands
D07B 2201/2016	. . . characterised by their cross-sectional shape
D07B 2201/2017	. . . . triangular
D07B 2201/2018	. . . . oval
D07B 2201/2019	. . . pressed to shape
D07B 2201/202	. . . characterised by a value or range of the dimension given
D07B 2201/2021	. . . characterised by their longitudinal shape
D07B 2201/2022	. . . coreless
D07B 2201/2023	. . . with core
D07B 2201/2024	. . . twisted
D07B 2201/2025	. . . . characterised by a value or range of the pitch parameter given
D07B 2201/2026	. . . . Pitch changing over length
D07B 2201/2027	. . . . Compact winding
D07B 2201/2028	. . . . . having the same lay direction and lay pitch
D07B 2201/2029	. . . . Open winding
D07B 2201/203	. . . . . Cylinder winding, i.e. S/Z or Z/S
D07B 2201/2031	. . . . . Different twist pitch

D07B 2201/2032	. . . . .	compared with the core
D07B 2201/2033	. . .	Parallel wires
D07B 2201/2034	. . .	comprising crossing wires or filaments in the same layer
D07B 2201/2035	. . .	false twisted
D07B 2201/2036	. . .	characterised by the use of different wires or filaments
D07B 2201/2037	. . . .	regarding the dimension of the wires or filaments
D07B 2201/2038	. . .	characterised by the number of wires or filaments
D07B 2201/2039	. . . .	three to eight wires or filaments respectively forming a single layer
D07B 2201/204	. . . .	nine or more wires or filaments respectively forming multiple layers
D07B 2201/2041	. . .	characterised by the materials used
D07B 2201/2042	. . .	characterised by a coating
D07B 2201/2043	. . . .	comprising metals
D07B 2201/2044	. . . .	comprising polymers
D07B 2201/2045	. . . .	comprising multiple layers
D07B 2201/2046	. . .	comprising fillers
D07B 2201/2047	. .	Cores
D07B 2201/2048	. . .	characterised by their cross-sectional shape
D07B 2201/2049	. . . .	having protrusions extending radially functioning as spacer between strands or wires
D07B 2201/2051	. . .	characterised by a value or range of the dimension given
D07B 2201/2052	. . .	characterised by their structure
D07B 2201/2053	. . . .	being homogeneous
D07B 2201/2054	. . . . .	comprising foam material
D07B 2201/2055	. . . .	comprising filaments or fibers
D07B 2201/2056	. . . . .	arranged parallel to the axis
D07B 2201/2057	. . . . .	resulting in a twisted structure
D07B 2201/2058	. . . . .	comprising fillers
D07B 2201/2059	. . . .	comprising wires
D07B 2201/206	. . . . .	arranged parallel to the axis
D07B 2201/2061	. . . . .	resulting in a twisted structure
D07B 2201/2062	. . . . .	comprising fillers
D07B 2201/2063	. . . .	being hollow
D07B 2201/2064	. . . .	being discontinuous in the longitudinal direction
D07B 2201/2065	. . . .	comprising a coating
D07B 2201/2066	. . .	characterised by the materials used
D07B 2201/2067	. . .	characterised by the elongation or tension behaviour
D07B 2201/2068	. . . .	having a load bearing function
D07B 2201/2069	. . . .	being elastic
D07B 2201/207	. . . .	being viscous
D07B 2201/2071	. .	Spacers

- D07B 2201/2072 . . . characterised by the materials used
- D07B 2201/2073 . . . in circumferencial direction
- D07B 2201/2074 . . . in radial direction
- D07B 2201/2075 . . Fillers
- D07B 2201/2076 . . . having a lubricant function
- D07B 2201/2077 . . . having an anti-corrosive function
- D07B 2201/2078 . . . having a load bearing function
- D07B 2201/2079 . . . characterised by the kind or amount of filling
- D07B 2201/208 . . . . having an open structure
- D07B 2201/2081 . . . . having maximum filling
- D07B 2201/2082 . . . characterised by the materials used
- D07B 2201/2083 . . Jackets or coverings

**WARNING**

Group [D07B 2201/2083](#) is impacted by reclassification into groups [D07B 2201/20903](#) and [D07B 2201/20907](#).

Groups [D07B 2201/2083](#), [D07B 2201/20903](#), and [D07B 2201/20907](#) should be considered in order to perform a complete search.

- D07B 2201/2084 . . . characterised by their shape
- D07B 2201/2085 . . . . concerning the internal shape
- D07B 2201/2086 . . . . concerning the external shape
- D07B 2201/2087 . . . being of the coated type
- D07B 2201/2088 . . . having multiple layers
- D07B 2201/2089 . . . comprising wrapped structures
- D07B 2201/209 . . . comprising braided structures
- D07B 2201/20903 . . . comprising woven structures

**WARNING**

Group [D07B 2201/20903](#) is incomplete pending reclassification of documents from group [D07B 2201/2083](#).

Groups [D07B 2201/2083](#) and [D07B 2201/20903](#) should be considered in order to perform a complete search.

- D07B 2201/20907 . . . comprising knitted structures

**WARNING**

Group [D07B 2201/20907](#) is incomplete pending reclassification of documents from group [D07B 2201/2083](#).

Groups [D07B 2201/2083](#) and [D07B 2201/20907](#) should be considered in order to perform a complete search.

- D07B 2201/2091 . . . being movable relative to the internal structure
- D07B 2201/2092 . . . characterised by the materials used
- D07B 2201/2093 . . . . being translucent
- D07B 2201/2094 . . . . being luminescent or reflective



- D07B 2201/2095 . . Auxiliary components, e.g. electric conductors or light guides
- D07B 2201/2096 . . . Light guides
- D07B 2201/2097 . . . Binding wires
- D07B 2201/2098 . . . . characterized by special properties or the arrangements of the binding wire

**D07B 2205/00****Rope or cable materials**

- D07B 2205/10 . Natural organic materials
- D07B 2205/103 . . Animal and plant materials
- D07B 2205/106 . . . Manila, hemp or sisal
- D07B 2205/20 . Organic high polymers
- D07B 2205/2003 . . Thermoplastics
- D07B 2205/2007 . . Duroplastics
- D07B 2205/201 . . Polyolefins
- D07B 2205/2014 . . . High performance polyolefins, e.g. Dyneema or Spectra
- D07B 2205/2017 . . Polystyrenes
- D07B 2205/2021 . . Polyvinyl halides
- D07B 2205/2025 . . Polyvinyl acetates
- D07B 2205/2028 . . Polyvinyl alcohols
- D07B 2205/2032 . . Polyacrylics
- D07B 2205/2035 . . Polyacetals
- D07B 2205/2039 . . Polyesters
- D07B 2205/2042 . . . High performance polyesters, e.g. Vectran
- D07B 2205/2046 . . Polyamides, e.g. nylons
- D07B 2205/205 . . . Aramides
- D07B 2205/2053 . . . . Polybenzimidazol [PBI]
- D07B 2205/2057 . . Phenol resins
- D07B 2205/206 . . Epoxy resins
- D07B 2205/2064 . . Polyurethane resins
- D07B 2205/2067 . . Viscose or regenerated cellulose, e.g. Rayon
- D07B 2205/2071 . . Fluor resins
- D07B 2205/2075 . . Rubbers, i.e. elastomers
- D07B 2205/2078 . . . being of natural origin
- D07B 2205/2082 . . . being of synthetic nature, e.g. chloroprene
- D07B 2205/2085 . . having particular high polymer characteristics
- D07B 2205/2089 . . . showing heat contraction
- D07B 2205/2092 . . . related to water solubility
- D07B 2205/2096 . . Poly-p-phenylenebenzo-bisoxazole [PBO]
- D07B 2205/30 . Inorganic materials
- D07B 2205/3003 . . Glass
- D07B 2205/3007 . . Carbon

- D07B 2205/301 . . Ceramics
- D07B 2205/3014 . . Asbestos
- D07B 2205/3017 . . Silicon carbides
- D07B 2205/3021 . . Metals
- D07B 2205/3025 . . . Steel
- D07B 2205/3028 . . . . Stainless steel
- D07B 2205/3032 . . . . Austenite
- D07B 2205/3035 . . . . Pearlite
- D07B 2205/3039 . . . . Martensite
- D07B 2205/3042 . . . . Ferrite
- D07B 2205/3046 . . . . characterised by the carbon content
- D07B 2205/305 . . . . . having a low carbon content, e.g. below 0,5 percent respectively NT wires
- D07B 2205/3053 . . . . . having a medium carbon content, e.g. greater than 0,5 percent and lower than 0.8 percent respectively HT wires
- D07B 2205/3057 . . . . . having a high carbon content, e.g. greater than 0,8 percent respectively SHT or UHT wires
- D07B 2205/306 . . . Aluminium (Al)
- D07B 2205/3064 . . . Chromium (Cr)
- D07B 2205/3067 . . . Copper (Cu)
- D07B 2205/3071 . . . Zinc (Zn)
- D07B 2205/3075 . . . Tin (Sn)
- D07B 2205/3078 . . . Lead (Pb)
- D07B 2205/3082 . . . Tungsten (W)
- D07B 2205/3085 . . . Alloys, i.e. non ferrous
- D07B 2205/3089 . . . . Brass, i.e. copper (Cu) and zinc (Zn) alloys
- D07B 2205/3092 . . . . Zinc (Zn) and tin (Sn) alloys
- D07B 2205/3096 . . . Amorphous metals
- D07B 2205/40 . . Superconductive materials
- D07B 2205/405 . . Ceramic superconductor
- D07B 2205/50 . . Lubricants
- D07B 2205/502 . . Oils
- D07B 2205/505 . . Greases
- D07B 2205/507 . . Solid lubricants
- D07B 2207/00** **Rope or cable making machines**
- D07B 2207/20 . . Type of machine
- D07B 2207/201 . . . Manually operated systems
- D07B 2207/202 . . . Double twist unwinding
- D07B 2207/203 . . . . comprising flyer
- D07B 2207/204 . . . Double twist winding

- D07B 2207/205 . . . comprising flyer
- D07B 2207/206 . . . with means for providing less than double twist, e. g. counter rotating means
- D07B 2207/207 . . Sequential double twisting devices
- D07B 2207/208 . . . characterised by at least partially unwinding the twist of the upstream double twisting step
- D07B 2207/209 . . Tubular strander
- D07B 2207/40 . Machine components
- D07B 2207/4004 . . Unwinding devices
- D07B 2207/4009 . . . over the head
- D07B 2207/4013 . . . comprising flyer
- D07B 2207/4018 . . Rope twisting devices
- D07B 2207/4022 . . . characterised by twisting die specifics
- D07B 2207/4027 . . . . including a coating die
- D07B 2207/4031 . . Winding device
- D07B 2207/4036 . . . comprising traversing means
- D07B 2207/404 . . Heat treating devices; Corresponding methods
- D07B 2207/4045 . . . to change the crystal structure of the load bearing material
- D07B 2207/405 . . . to heat towards the glass transition temperature of the load bearing material
- D07B 2207/4054 . . . to soften the load bearing material
- D07B 2207/4059 . . . to soften the filler material
- D07B 2207/4063 . . . for stress relief
- D07B 2207/4068 . . . for curing
- D07B 2207/4072 . . Means for mechanically reducing serpentineing or mechanically killing of rope
- D07B 2207/4077 . . Safety devices
- D07B 2207/4081 . . . comprising means for stopping or shutting down the machine
- D07B 2207/4086 . . . providing warnings
- D07B 2207/409 . . Drives
- D07B 2207/4095 . . . Control means therefor
  
- D07B 2301/00 Controls**
- D07B 2301/10 . Open loop
- D07B 2301/15 . Closed loop
- D07B 2301/155 . . being of the extended closed loop control system type, e.g. using models or more than one signal in the feedback loop
- D07B 2301/20 . Controller types
- D07B 2301/201 . . proportional
- D07B 2301/202 . . integrative
- D07B 2301/204 . . differential
- D07B 2301/205 . . Programmable controllers; Calculating or controlling methods

D07B 2301/207	. . . Fuzzy logic
D07B 2301/208	. . . using timing functions
D07B 2301/25	. System input signals, e.g. set points
D07B 2301/251	. . Twist
D07B 2301/252	. . Temperature
D07B 2301/253	. . . Temperature profile or sequence
D07B 2301/254	. . Amount of material
D07B 2301/255	. . Power consumption of drive
D07B 2301/256	. . Pressure
D07B 2301/257	. . Force
D07B 2301/258	. . Tensile stress
D07B 2301/259	. . Strain or elongation
D07B 2301/30	. Signals indicating failure or excessive conditions, e.g. overheating
D07B 2301/302	. . Temperature
D07B 2301/305	. . Wear or friction
D07B 2301/307	. . Breakage of wire or strand or rope
D07B 2301/35	. System output signals
D07B 2301/3508	. . Twist
D07B 2301/3516	. . Temperature
D07B 2301/3525	. . . Temperature profile or sequence
D07B 2301/3533	. . Amount of material
D07B 2301/3541	. . Power consumption of drive
D07B 2301/355	. . Pressure
D07B 2301/3558	. . Force
D07B 2301/3566	. . Tensile stress
D07B 2301/3575	. . Strain or elongation
D07B 2301/3583	. . Rotational speed
D07B 2301/3591	. . Linear speed
D07B 2301/40	. Feedback signal in closed loop controls
D07B 2301/4008	. . Twist
D07B 2301/4016	. . Temperature
D07B 2301/4025	. . . Temperature profile or sequence
D07B 2301/4033	. . Amount of material
D07B 2301/4041	. . Power consumption of drive
D07B 2301/405	. . Pressure
D07B 2301/4058	. . Force
D07B 2301/4066	. . Tensile stress
D07B 2301/4075	. . Strain or elongation
D07B 2301/4083	. . Rotational speed
D07B 2301/4091	. . Linear speed

- D07B 2301/45 . for diagnosing ([signals indicating failure or excessive conditions D07B 2301/30](#))
- D07B 2301/50 . User Interface or value setting
- D07B 2301/55 . Sensors
- D07B 2301/5504 . . characterised by their arrangement
- D07B 2301/5509 . . . being movable
- D07B 2301/5513 . . . being of the reflective type
- D07B 2301/5518 . . . . Transducers therefor
- D07B 2301/5522 . . . being of the barrier type
- D07B 2301/5527 . . . comprising an array or multiple sensors
- D07B 2301/5531 . . using electric means or elements
- D07B 2301/5536 . . . for measuring electrical current
- D07B 2301/554 . . . for measuring variable resistance
- D07B 2301/5545 . . . and piezoelectric phenomena
- D07B 2301/555 . . . for measuring magnetic properties
- D07B 2301/5554 . . . for measuring capacitance
- D07B 2301/5559 . . . for measuring inductance
- D07B 2301/5563 . . . for measuring temperature, i. e. thermocouples
- D07B 2301/5568 . . . acoustic or ultrasonic
- D07B 2301/5572 . . . optical
- D07B 2301/5577 . . . using light guides
- D07B 2301/5581 . . . using cameras
- D07B 2301/5586 . . . using lasers
- D07B 2301/559 . . . for pressure
- D07B 2301/5595 . . . for force

**D07B 2401/00****Aspects related to the problem to be solved or advantage**

- D07B 2401/20 . related to ropes or cables
- D07B 2401/2005 . . Elongation or elasticity
- D07B 2401/201 . . . regarding structural elongation
- D07B 2401/2015 . . Killing or avoiding twist
- D07B 2401/202 . . Environmental resistance
- D07B 2401/2025 . . . avoiding corrosion
- D07B 2401/203 . . . Low temperature resistance
- D07B 2401/2035 . . . High temperature resistance
- D07B 2401/204 . . . Moisture handling
- D07B 2401/2045 . . Avoiding longitudinal load for covering
- D07B 2401/205 . . Avoiding relative movement of components
- D07B 2401/2055 . . Improving load capacity
- D07B 2401/206 . . Improving radial flexibility
- D07B 2401/2065 . . Reducing wear

- D07B 2401/207 . . . internally
- D07B 2401/2075 . . . externally
- D07B 2401/208 . . Enabling filler penetration
- D07B 2401/2085 . . Adjusting or controlling final twist
- D07B 2401/209 . . . comprising compensation of rope twist in strand twist
- D07B 2401/2095 . . Improving filler wetting respectively or filler adhesion
- D07B 2401/40 . related to rope making machines
- D07B 2401/401 . . Reducing wear
- D07B 2401/403 . . Reducing vibrations
- D07B 2401/405 . . Addressing space constraints
- D07B 2401/406 . . Increasing speed
- D07B 2401/408 . . Increasing rope length, e.g. on drum

**D07B 2501/00****Application field**

- D07B 2501/20 . related to ropes or cables
- D07B 2501/2007 . . Elevators
- D07B 2501/2015 . . Construction industries
- D07B 2501/2023 . . . Concrete enforcements
- D07B 2501/203 . . . Bridges
- D07B 2501/2038 . . Agriculture, forestry and fishery
- D07B 2501/2046 . . Tire cords
- D07B 2501/2053 . . . for wheel rim attachment
- D07B 2501/2061 . . Ship moorings
- D07B 2501/2069 . . Climbing or tents
- D07B 2501/2076 . . Power transmissions
- D07B 2501/2084 . . Mechanical controls, e.g. door lashes
- D07B 2501/2092 . . Evacuation lines or lifelines
- D07B 2501/40 . related to rope or cable making machines
- D07B 2501/403 . . for making belts
- D07B 2501/406 . . for making electrically conductive cables

**D07B 2801/00**

**Linked indexing codes associated with indexing codes or classes of [D07B](#) (not used)**

**NOTE**

The following indexing codes are applied as linked indexing codes associated to other indexing codes or classes of [D07B](#), with the following restrictions:

- [D07B 2801/10](#), [D07B 2801/14](#) -[D07B 2801/22](#) are only to be used as linked indexing codes with [D07B 2205/00](#) and lower hierarchy
- [D07B 2801/12](#) and [D07B 2801/24](#) are only to be used as linked indexing codes with [D07B 2205/00](#) and lower hierarchy or [D07B 2201/2047](#) and lower hierarchy
- [D07B 2801/60](#) and [D07B 2801/62](#) are only to be used as linked indexing codes with [D07B 2207/404](#) and lower hierarchy

D07B 2801/00

(continued)

- [D07B 2801/90](#) is only used as linked indexing code with any class or indexing code of [D07B](#) and defines that the classified feature belongs to the general knowledge.

- |                              |   |
|------------------------------|---|
| <a href="#">D07B 2801/10</a> | . Smallest filamentary entity of a rope or strand, i.e. wire, filament, fiber or yarn |
| <a href="#">D07B 2801/12</a> | . Strand  |
| <a href="#">D07B 2801/14</a> | . Core  |
| <a href="#">D07B 2801/16</a> | . Filler  |
| <a href="#">D07B 2801/18</a> | . Coating   |
| <a href="#">D07B 2801/20</a> | . Spacer  |
| <a href="#">D07B 2801/22</a> | . Jacket or covering  |
| <a href="#">D07B 2801/24</a> | . Rope  |
| <a href="#">D07B 2801/60</a> | . Method  |
| <a href="#">D07B 2801/62</a> | . Device  |
| <a href="#">D07B 2801/90</a> | . General knowledge   |