

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

D07B 7/16

(continued)

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.

D07B 9/00**Binding or sealing ends, e.g. to prevent unravelling****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 serpentinizing 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 phenomenons
- 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 2801/90](#) 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.

- D07B 2801/10 . Smallest filamentary entity of a rope or strand, i.e. wire, filament, fiber or yarn
- D07B 2801/12 . Strand
- D07B 2801/14 . Core
- D07B 2801/16 . Filler
- D07B 2801/18 . Coating

- D07B 2801/20 . Spacer
- D07B 2801/22 . Jacket or covering
- D07B 2801/24 . Rope
- D07B 2801/60 . Method
- D07B 2801/62 . Device
- D07B 2801/90 . General knowledge