

CPC COOPERATIVE PATENT CLASSIFICATION

D TEXTILES; PAPER

TEXTILES OR FLEXIBLE MATERIALS NOT OTHERWISE PROVIDED FOR

D07 ROPES; CABLES OTHER THAN ELECTRIC

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](#))

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

| | | | |
|-------------|---|---------------------------------------|---|
| 1/00 | Constructional features of ropes or cables | 1/10 | . . . with a core of wires arranged parallel to the centre line |
| 1/005 | . {Composite ropes, i.e. ropes built-up from fibrous or filamentary material and metal wires} | 1/12 | . Ropes or cables with a hollow core |
| 1/02 | . Ropes built-up from fibrous or filamentary material, e.g. of vegetable origin, of animal origin, regenerated cellulose, plastics | 1/14 | . Ropes or cables with incorporated auxiliary elements, e.g. for marking, extending throughout the length of the rope or cable |
| 1/025 | . . {comprising high modulus, or high tenacity, polymer filaments or fibres, e.g. liquid-crystal polymers} | 1/141 | . . {comprising liquid, pasty or powder agents, e.g. lubricants or anti-corrosive oils or greases} |
| 1/04 | . . with a core of fibres or filaments arranged parallel to the centre line | 1/142 | . . . {for ropes or rope components built-up from fibrous or filamentary material} |
| 1/06 | . Ropes or cables built-up from metal wires, e.g. of section wires around a hemp core | 1/144 | . . . {for cables or cable components built-up from metal wires} |
| 1/0606 | . . {Reinforcing cords for rubber or plastic articles} | 1/145 | . . {comprising elements for indicating or detecting the rope or cable status} |
| 1/0613 | . . . {the reinforcing cords being characterised by the rope configuration} | 1/147 | . . {comprising electric conductors or elements for information transfer (D07B 1/145 takes precedence)} |
| 1/062 | . . . {the reinforcing cords being characterised by the strand configuration} | 1/148 | . . {comprising marks or luminous elements} |
| 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} | 1/16 | . Ropes or cables with an enveloping sheathing or inlays of rubber or plastics (D07B 1/04 , D07B 1/10 take precedence) |
| 1/0633 | {having a multiple-layer configuration} | 1/162 | . . {characterised by a plastic or rubber enveloping sheathing} |
| 1/064 | {the reinforcing cords being twisted and with at least one wire exchanging place with another wire} | 1/165 | . . {characterised by a plastic or rubber inlay} |
| 1/0646 | . . . {comprising longitudinally preformed wires} | 1/167 | . . . {having a predetermined shape} |
| 1/0653 | {in the core} | 1/18 | . Grommets {(slings B66C 1/12)} |
| 1/066 | . . . {the wires being made from special alloy or special steel composition} | 1/185 | . . {characterised by the eye construction} |
| 1/0666 | . . . {the wires being characterised by an anti-corrosive or adhesion promoting coating} | 1/20 | . Buoyant ropes, e.g. with air-filled cellular cores; Accessories therefor |
| 1/0673 | . . {having a rope configuration} | 1/22 | . Flat or flat-sided ropes; Sets of ropes consisting of a series of parallel ropes |
| 1/068 | . . . {characterised by the strand design} | Manufacture of ropes or cables | |
| 1/0686 | . . . {characterised by the core design} | 3/00 | General-purpose machines or apparatus for producing twisted ropes or cables from component strands of the same or different material |
| 1/0693 | . . {having a strand configuration} | 3/005 | . {with alternating twist directions} |
| 1/08 | . . the layers of which are formed of profiled interlocking wires, i.e. the strands forming concentric layers {(D07B 1/0606 takes precedence)} | | |

- 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}
- 3/04 . . and are arranged in tandem along the axis of the machine {, e.g. tubular or high-speed type stranding machine}
- 3/045 . . . {with the reels axially aligned, their common axis coinciding with the axis of the machine}
- 3/06 . . and are spaced radially from the axis of the machine {, i.e. basket or planetary-type stranding machine}
- 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
- 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}
- 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}
- 3/103 . . . {characterised by the bow construction}
- 3/106 . . . {characterised by comprising two bows, both guiding the same bundle to impart a twist}
- 3/12 . operating with rotating loops of filaments
- 3/14 . hand-operated

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

- 5/002 . {Making parallel wire strands}
- 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.

- 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.

- 5/007 . {comprising postformed and thereby radially plastically deformed elements}
- 5/02 . from straw or like vegetable material
- 5/04 . Rope bands
- 5/06 . from natural or artificial staple fibres
- 5/08 . . agglutinated by adhesives
- 5/10 . from strands of non-circular cross-section
- 5/12 . of low twist or low tension by processes comprising setting or straightening treatments

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

- 7/02 . Machine details; Auxiliary devices
- 7/022 . . {Measuring or adjusting the lay or torque in the rope}
- 7/025 . . {Preforming the wires or strands prior to closing}
- 7/027 . . {Postforming of ropes or strands}
- 7/04 . . Devices for imparting reverse rotation to bobbin- or reel cages
- 7/06 . . Bearing supports or brakes for supply bobbins or reels
- 7/08 . . Alarms or stop motions responsive to exhaustion or breakage of filamentary material fed from supply reels or bobbins
- 7/10 . . Devices for taking-up or winding the finished rope or cable
- 7/12 . . for softening, lubricating or impregnating ropes, cables, or component strands thereof
- 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](#))
- 7/145 . . . {Coating or filling-up interstices}
- 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.

- 7/162 . . {Vices or clamps for bending or holding the rope or cable during splicing}
- 7/165 . . {for making slings}
- 7/167 . . {for joining rope components}
- 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.

- 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.

- 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.

- 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.

- 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.

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

2201/00 Ropes or cables

- 2201/10 . . Rope or cable structures
- 2201/1004 . . General structure or appearance
- 2201/1008 . . . Several parallel ropes
- 2201/1012 . . characterised by their internal structure
- 2201/1014 . . . characterised by being laid or braided from several sub-ropes or sub-cables, e.g. hawsers
- 2201/1016 . . . characterised by the use of different strands
- 2201/102 . . . including a core
- 2201/1024 . . Structures that change the cross-sectional shape
- 2201/1028 . . characterised by the number of strands
- 2201/1032 . . . three to eight strands respectively forming a single layer
- 2201/1036 . . . nine or more strands respectively forming multiple layers
- 2201/104 . . twisted
- 2201/1044 . . . characterised by a value or range of the pitch parameter given
- 2201/1048 . . . using regular lay, i.e. the wires or filaments being parallel to rope axis
- 2201/1052 . . . using lang lay, i.e. the wires or filaments being inclined relative to the rope axis
- 2201/1056 . . . using alternate lay, i.e. the wires or filaments in the strands being oppositely inclined relative to the rope axis
- 2201/106 . . . Pitch changing over length
- 2201/1064 . . . characterised by lay direction of the strand compared to the lay direction of the wires in the strand

- 2201/1068 having the same lay direction
- 2201/1072 . . . Compact winding, i.e. S/S or Z/Z
- 2201/1076 . . . Open winding
- 2201/108 Cylinder winding, i.e. S/Z or Z/S
- 2201/1084 Different twist pitch
- 2201/1088 . . false twisted
- 2201/1092 . . Parallel strands
- 2201/1096 . . braided
- 2201/20 . . Rope or cable components
- 2201/2001 . . Wires or filaments
- 2201/2002 . . . characterised by their cross-sectional shape
- 2201/2003 flat
- 2201/2004 triangular
- 2201/2005 oval
- 2201/2006 . . . characterised by a value or range of the dimension given
- 2201/2007 . . . characterised by their longitudinal shape
- 2201/2008 wavy or undulated
- 2201/2009 . . . characterised by the materials used
- 2201/201 . . . characterised by a coating
- 2201/2011 comprising metals
- 2201/2012 comprising polymers
- 2201/2013 comprising multiple layers
- 2201/2014 . . . Compound wires or compound filaments
- 2201/2015 . . Strands
- 2201/2016 . . . characterised by their cross-sectional shape
- 2201/2017 triangular
- 2201/2018 oval
- 2201/2019 . . . pressed to shape
- 2201/202 . . . characterised by a value or range of the dimension given
- 2201/2021 . . . characterised by their longitudinal shape
- 2201/2022 . . . coreless
- 2201/2023 . . . with core
- 2201/2024 . . . twisted
- 2201/2025 characterised by a value or range of the pitch parameter given
- 2201/2026 Pitch changing over length
- 2201/2027 Compact winding
- 2201/2028 having the same lay direction and lay pitch
- 2201/2029 Open winding
- 2201/203 Cylinder winding, i.e. S/Z or Z/S
- 2201/2031 Different twist pitch
- 2201/2032 compared with the core
- 2201/2033 . . . Parallel wires
- 2201/2034 . . . comprising crossing wires or filaments in the same layer
- 2201/2035 . . . false twisted
- 2201/2036 . . . characterised by the use of different wires or filaments
- 2201/2037 regarding the dimension of the wires or filaments
- 2201/2038 . . . characterised by the number of wires or filaments
- 2201/2039 three to eight wires or filaments respectively forming a single layer
- 2201/204 nine or more wires or filaments respectively forming multiple layers
- 2201/2041 . . . characterised by the materials used
- 2201/2042 . . . characterised by a coating
- 2201/2043 comprising metals
- 2201/2044 comprising polymers

| | | | | | |
|------------|-----------|--|----------------|-----------|--|
| 2201/2045 | | comprising multiple layers | 2201/2098 | | characterized by special properties or the arrangements of the binding wire |
| 2201/2046 | . . . | comprising fillers | | | |
| 2201/2047 | . . | Cores | 2205/00 | | Rope or cable materials |
| 2201/2048 | . . . | characterised by their cross-sectional shape | 2205/10 | . . | Natural organic materials |
| 2201/2049 | | having protrusions extending radially functioning as spacer between strands or wires | 2205/103 | . . | Animal and plant materials |
| | | | 2205/106 | . . . | Manila, hemp or sisal |
| 2201/2051 | . . . | characterised by a value or range of the dimension given | 2205/20 | . . | Organic high polymers |
| 2201/2052 | . . . | characterised by their structure | 2205/2003 | . . | Thermoplastics |
| 2201/2053 | | being homogeneous | 2205/2007 | . . | Duroplastics |
| 2201/2054 | | comprising foam material | 2205/201 | . . | Polyolefins |
| 2201/2055 | | comprising filaments or fibers | 2205/2014 | . . . | High performance polyolefins, e.g. Dyneema or Spectra |
| 2201/2056 | | arranged parallel to the axis | | | |
| 2201/2057 | | resulting in a twisted structure | 2205/2017 | . . | Polystyrenes |
| 2201/2058 | | comprising fillers | 2205/2021 | . . | Polyvinyl halides |
| 2201/2059 | | comprising wires | 2205/2025 | . . | Polyvinyl acetates |
| 2201/206 | | arranged parallel to the axis | 2205/2028 | . . | Polyvinyl alcohols |
| 2201/2061 | | resulting in a twisted structure | 2205/2032 | . . | Polyacrylics |
| 2201/2062 | | comprising fillers | 2205/2035 | . . | Polyacetals |
| 2201/2063 | | being hollow | 2205/2039 | . . | Polyesters |
| 2201/2064 | | being discontinuous in the longitudinal direction | 2205/2042 | . . . | High performance polyesters, e.g. Vectran |
| 2201/2065 | | comprising a coating | 2205/2046 | . . | Polyamides, e.g. nylons |
| 2201/2066 | . . . | characterised by the materials used | 2205/205 | . . . | Aramid |
| 2201/2067 | . . . | characterised by the elongation or tension behaviour | 2205/2053 | | Polybenzimidazol [PBI] |
| | | | 2205/2057 | . . | Phenol resins |
| 2201/2068 | | having a load bearing function | 2205/206 | . . | Epoxy resins |
| 2201/2069 | | being elastic | 2205/2064 | . . | Polyurethane resins |
| 2201/207 | | being viscous | 2205/2067 | . . | Viscose or regenerated cellulose, e.g. Rayon |
| 2201/2071 | . . | Spacers | 2205/2071 | . . | Fluor resins |
| 2201/2072 | . . . | characterised by the materials used | 2205/2075 | . . | Rubbers, i.e. elastomers |
| 2201/2073 | . . . | in circumferencial direction | 2205/2078 | . . . | being of natural origin |
| 2201/2074 | . . . | in radial direction | 2205/2082 | . . . | being of synthetic nature, e.g. chloroprene |
| 2201/2075 | . . | Fillers | 2205/2085 | . . | having particular high polymer characteristics |
| 2201/2076 | . . . | having a lubricant function | 2205/2089 | . . . | showing heat contraction |
| 2201/2077 | . . . | having an anti-corrosive function | 2205/2092 | . . . | related to water solubility |
| 2201/2078 | . . . | having a load bearing function | 2205/2096 | . . | Poly-p-phenylenebenzo-bisoxazole [PBO] |
| 2201/2079 | . . . | characterised by the kind or amount of filling | 2205/30 | . . | Inorganic materials |
| 2201/208 | | having an open structure | 2205/3003 | . . | Glass |
| 2201/2081 | | having maximum filling | 2205/3007 | . . | Carbon |
| 2201/2082 | . . . | characterised by the materials used | 2205/301 | . . | Ceramics |
| 2201/2083 | . . | Jackets or coverings | 2205/3014 | . . | Asbestos |
| 2201/2084 | . . . | characterised by their shape | 2205/3017 | . . | Silicon carbides |
| 2201/2085 | | concerning the internal shape | 2205/3021 | . . | Metals |
| 2201/2086 | | concerning the external shape | 2205/3025 | . . . | Steel |
| 2201/2087 | | being of the coated type | 2205/3028 | | Stainless steel |
| 2201/2088 | . . . | having multiple layers | 2205/3032 | | Austenite |
| 2201/2089 | . . . | comprising wrapped structures | 2205/3035 | | Pearlite |
| 2201/209 | . . . | comprising braided structures | 2205/3039 | | Martensite |
| 2201/20903 | . . . | comprising woven structures | 2205/3042 | | Ferrite |
| 2201/20907 | . . . | comprising knitted structures | 2205/3046 | | characterised by the carbon content |
| 2201/2091 | . . . | being movable relative to the internal structure | 2205/305 | | having a low carbon content, e.g. below 0,5 percent respectively NT wires |
| 2201/2092 | . . . | characterised by the materials used | 2205/3053 | | having a medium carbon content, e.g. greater than 0,5 percent and lower than 0.8 percent respectively HT wires |
| 2201/2093 | | being translucent | | | |
| 2201/2094 | | being luminescent or reflective | 2205/3057 | | having a high carbon content, e.g. greater than 0,8 percent respectively SHT or UHT wires |
| 2201/2095 | . . | Auxiliary components, e.g. electric conductors or light guides | | | |
| 2201/2096 | . . . | Light guides | 2205/306 | . . . | Aluminium (Al) |
| 2201/2097 | . . . | Binding wires | 2205/3064 | . . . | Chromium (Cr) |
| | | | 2205/3067 | . . . | Copper (Cu) |
| | | | 2205/3071 | . . . | Zinc (Zn) |

| | | | |
|----------------|---|-----------|--|
| 2205/3075 | . . . Tin (Sn) | 2301/204 | . . differential |
| 2205/3078 | . . . Lead (Pb) | 2301/205 | . . Programmable controllers; Calculating or controlling methods |
| 2205/3082 | . . . Tungsten (W) | 2301/207 | . . . Fuzzy logic |
| 2205/3085 | . . . Alloys, i.e. non ferrous | 2301/208 | . . . using timing functions |
| 2205/3089 | Brass, i.e. copper (Cu) and zinc (Zn) alloys | 2301/25 | . System input signals, e.g. set points |
| 2205/3092 | Zinc (Zn) and tin (Sn) alloys | 2301/251 | . . Twist |
| 2205/3096 | . . . Amorphous metals | 2301/252 | . . Temperature |
| 2205/40 | . Superconductive materials | 2301/253 | . . . Temperature profile or sequence |
| 2205/405 | . . Ceramic superconductor | 2301/254 | . . Amount of material |
| 2205/50 | . Lubricants | 2301/255 | . . Power consumption of drive |
| 2205/502 | . . Oils | 2301/256 | . . Pressure |
| 2205/505 | . . Greases | 2301/257 | . . Force |
| 2205/507 | . . Solid lubricants | 2301/258 | . . Tensile stress |
| 2207/00 | Rope or cable making machines | 2301/259 | . . Strain or elongation |
| 2207/20 | . Type of machine | 2301/30 | . Signals indicating failure or excessive conditions, e.g. overheating |
| 2207/201 | . . Manually operated systems | 2301/302 | . . Temperature |
| 2207/202 | . . Double twist unwinding | 2301/305 | . . Wear or friction |
| 2207/203 | . . . comprising flyer | 2301/307 | . . Breakage of wire or strand or rope |
| 2207/204 | . . Double twist winding | 2301/35 | . System output signals |
| 2207/205 | . . . comprising flyer | 2301/3508 | . . Twist |
| 2207/206 | . . . with means for providing less than double twist, e.g. counter rotating means | 2301/3516 | . . Temperature |
| 2207/207 | . . Sequential double twisting devices | 2301/3525 | . . . Temperature profile or sequence |
| 2207/208 | . . . characterised by at least partially unwinding the twist of the upstream double twisting step | 2301/3533 | . . Amount of material |
| 2207/209 | . . Tubular strander | 2301/3541 | . . Power consumption of drive |
| 2207/40 | . Machine components | 2301/355 | . . Pressure |
| 2207/4004 | . . Unwinding devices | 2301/3558 | . . Force |
| 2207/4009 | . . . over the head | 2301/3566 | . . Tensile stress |
| 2207/4013 | . . . comprising flyer | 2301/3575 | . . Strain or elongation |
| 2207/4018 | . . Rope twisting devices | 2301/3583 | . . Rotational speed |
| 2207/4022 | . . . characterised by twisting die specifics | 2301/3591 | . . Linear speed |
| 2207/4027 | including a coating die | 2301/40 | . Feedback signal in closed loop controls |
| 2207/4031 | . . Winding device | 2301/4008 | . . Twist |
| 2207/4036 | . . . comprising traversing means | 2301/4016 | . . Temperature |
| 2207/404 | . . Heat treating devices; Corresponding methods | 2301/4025 | . . . Temperature profile or sequence |
| 2207/4045 | . . . to change the crystal structure of the load bearing material | 2301/4033 | . . Amount of material |
| 2207/405 | . . . to heat towards the glass transition temperature of the load bearing material | 2301/4041 | . . Power consumption of drive |
| 2207/4054 | . . . to soften the load bearing material | 2301/405 | . . Pressure |
| 2207/4059 | . . . to soften the filler material | 2301/4058 | . . Force |
| 2207/4063 | . . . for stress relief | 2301/4066 | . . Tensile stress |
| 2207/4068 | . . . for curing | 2301/4075 | . . Strain or elongation |
| 2207/4072 | . . Means for mechanically reducing serpentineing or mechanically killing of rope | 2301/4083 | . . Rotational speed |
| 2207/4077 | . . Safety devices | 2301/4091 | . . Linear speed |
| 2207/4081 | . . . comprising means for stopping or shutting down the machine | 2301/45 | . for diagnosing (signals indicating failure or excessive conditions D07B 2301/30) |
| 2207/4086 | . . . providing warnings | 2301/50 | . User Interface or value setting |
| 2207/409 | . . Drives | 2301/55 | . Sensors |
| 2207/4095 | . . . Control means therefor | 2301/5504 | . . characterised by their arrangement |
| 2301/00 | Controls | 2301/5509 | . . . being movable |
| 2301/10 | . Open loop | 2301/5513 | . . . being of the reflective type |
| 2301/15 | . Closed loop | 2301/5518 | Transducers therefor |
| 2301/155 | . . being of the extended closed loop control system type, e.g. using models or more than one signal in the feedback loop | 2301/5522 | . . . being of the barrier type |
| 2301/20 | . Controller types | 2301/5527 | . . . comprising an array or multiple sensors |
| 2301/201 | . . proportional | 2301/5531 | . . using electric means or elements |
| 2301/202 | . . integrative | 2301/5536 | . . . for measuring electrical current |
| | | 2301/554 | . . . for measuring variable resistance |
| | | 2301/5545 | . . . and piezoelectric phenomena |
| | | 2301/555 | . . . for measuring magnetic properties |
| | | 2301/5554 | . . . for measuring capacitance |
| | | 2301/5559 | . . . for measuring inductance |

- 2301/5563 . . . for measuring temperature, i.e. thermocouples
- 2301/5568 . . . acoustic or ultrasonic
- 2301/5572 . . . optical
- 2301/5577 . . . using light guides
- 2301/5581 . . . using cameras
- 2301/5586 . . . using lasers
- 2301/559 . . . for pressure
- 2301/5595 . . . for force

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

- 2401/20 . related to ropes or cables
- 2401/2005 . . Elongation or elasticity
- 2401/201 . . . regarding structural elongation
- 2401/2015 . . Killing or avoiding twist
- 2401/202 . . Environmental resistance
- 2401/2025 . . . avoiding corrosion
- 2401/203 . . . Low temperature resistance
- 2401/2035 . . . High temperature resistance
- 2401/204 . . . Moisture handling
- 2401/2045 . . Avoiding longitudinal load for covering
- 2401/205 . . Avoiding relative movement of components
- 2401/2055 . . Improving load capacity
- 2401/206 . . Improving radial flexibility
- 2401/2065 . . Reducing wear
- 2401/207 . . . internally
- 2401/2075 . . . externally
- 2401/208 . . Enabling filler penetration
- 2401/2085 . . Adjusting or controlling final twist
- 2401/209 . . . comprising compensation of rope twist in strand twist
- 2401/2095 . . Improving filler wetting respectively or filler adhesion
- 2401/40 . related to rope making machines
- 2401/401 . . Reducing wear
- 2401/403 . . Reducing vibrations
- 2401/405 . . Addressing space constraints
- 2401/406 . . Increasing speed
- 2401/408 . . Increasing rope length, e.g. on drum

2501/00 Application field

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

2801/00 Linked indexing codes associated with indexing codes or classes of [D07B](#)

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.

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