

# CPC COOPERATIVE PATENT CLASSIFICATION

## F MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING (NOTE omitted)

### ENGINEERING IN GENERAL

## F16 ENGINEERING ELEMENTS AND UNITS; GENERAL MEASURES FOR PRODUCING AND MAINTAINING EFFECTIVE FUNCTIONING OF MACHINES OR INSTALLATIONS; THERMAL INSULATION IN GENERAL

## F16G BELTS, CABLES, OR ROPES, PREDOMINANTLY USED FOR DRIVING PURPOSES; CHAINS; FITTINGS PREDOMINANTLY USED THEREFOR

### NOTE

Attention is drawn to the following places:

|   |   |
|---|---|
| <a href="#">B63B 21/04</a>                              | Fastening equipment for chains, ropes or the like for ships |
| <a href="#">B63B 21/20</a>                              | Adaptations of chains, ropes or the like for ships          |
| <a href="#">B65G 15/30</a>                              | Endless conveyor belts                                      |
| <a href="#">B65G 17/38</a> , <a href="#">B65G 19/20</a> | Traction chains for conveyors                               |
| <a href="#">F16H</a>                                    | Gearings using flexible members                             |
| <a href="#">F16H 9/24</a>                               | Chains specially adapted for gearings with variable ratio   |
| <a href="#">H05F</a>                                    | Preventing or carrying-off electrostatic charges.           |

### 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.

|             |  |             |   |
|-------------|--|-------------|---|
| <b>1/00</b> | <b>Driving-belts</b> (V-belts <a href="#">F16G 5/00</a> ; conveyor belt <a href="#">B65G</a> )   | <b>3/00</b> | <b>Belt fastenings, e.g. for conveyor belts</b> (for V-belts <a href="#">F16G 7/00</a> )  |
| 1/02        | • made of leather ( <a href="#">F16G 1/28</a> takes precedence; making thereof <a href="#">C14B 9/00</a> {; consisting of several parts <a href="#">F16G 1/22</a> })   | 3/003       | • {Apparatus or tools for joining belts (stapler <a href="#">B25C 5/00</a> )}   |
| 1/04        | • made of fibrous material, e.g. textiles, whether rubber-covered or not ( <a href="#">F16G 1/28</a> takes precedence; making thereof <a href="#">D03D</a> {; consisting of several parts <a href="#">F16G 1/22</a> }) | 3/006       | • {Traction devices to bring together belts, cables or chains}  |
| 1/06        | • made of rubber ( <a href="#">F16G 1/28</a> takes precedence; making thereof <a href="#">B29D 29/00</a> {consisting of several parts <a href="#">F16G 1/22</a> })   | 3/02        | • with series of eyes or the like, interposed and linked by a pin to form a hinge ( <a href="#">F16G 3/09</a> takes precedence) |
| 1/08        | • . with reinforcement bonded by the rubber  | 3/04        | • . in which the ends of separate U-shaped or like eyes are attached to the belt by parts penetrating into it                   |
| 1/10        | • . . with textile reinforcement   | 3/06        | • with outwardly-bent, mutually-connected belt ends   |
| 1/12        | • . . with metal reinforcement   | 3/07        | • Friction clamps, e.g. of grommet-thimble type   |
| 1/14        | • made of plastics ( <a href="#">F16G 1/28</a> takes precedence; making thereof <a href="#">B29D 29/00</a> {consisting of several parts <a href="#">F16G 1/22</a> })   | 3/08        | • consisting of plates and screw-bolts or rivets ( <a href="#">F16G 3/06</a> takes precedence)                                  |
| 1/16        | • . with reinforcement bonded by the plastic material {(making thereof <a href="#">B32B</a> )}   | 3/09        | • . the plates forming a hinge  |
| 1/18        | • made of wire (making thereof <a href="#">B21F 43/00</a> {; consisting of several parts <a href="#">F16G 1/22</a> })  | 3/10        | • Joining belts by sewing, sticking, vulcanising, or the like; Constructional adaptations of the belt ends for this purpose     |
| 1/20        | • made of a single metal strip (making thereof <a href="#">B21D 53/14</a> )  | 3/12        | • Joining belts by lacing   |
| 1/21        | • built-up from superimposed layers, e.g. zig-zag folded   | 3/14        | • with extensible parts; with resilient parts   |
| 1/22        | • consisting of several parts  | 3/16        | • Devices or machines for connecting driving-belts or the like  |
| 1/24        | • . in the form of links (in the shape of chain links <a href="#">F16G 13/08</a> )   | <b>5/00</b> | <b>V-belts, i.e. belts of tapered cross-section</b>   |
| 1/26        | • . in the form of strips or lamellae  | 5/02        | • made of leather ( <a href="#">F16G 5/20</a> takes precedence {; consisting of several parts <a href="#">F16G 5/16</a> })      |
| 1/28        | • with a contact surface of special shape, e.g. toothed  | 5/04        | • made of rubber ( <a href="#">F16G 5/02</a> takes precedence {consisting of several parts <a href="#">F16G 5/16</a> })         |
|             |  | 5/06        | • . with reinforcement bonded by the rubber   |
|             |  | 5/08        | • . . with textile reinforcement  |

- 5/10 . . . with metal reinforcement
- 5/12 . made of plastics (F16G 5/20 takes precedence  
{consisting of several parts F16G 5/16})
- 5/14 . . with reinforcement bonded by the plastic material
- 5/16 . consisting of several parts
- 5/163 . . {with means allowing lubrication (F16G 5/18  
takes precedence)}
- 5/166 . . {with non-metallic rings (F16G 5/18 takes  
precedence)}
- 5/18 . . in the form of links
- 5/20 . with a contact surface of special shape, e.g. toothed
- 5/22 . built-up from superimposed layers
- 5/24 . . zig-zag folded
- 7/00 V-belt fastenings**
- 7/02 . locked, e.g. riveted
- 7/04 . quickly detachable
- 7/06 . adjustable, e.g. for tension
- 9/00 Ropes or cables specially adapted for driving,  
or for being driven by, pulleys or other gearing  
elements (ropes or cables in general D07B)**
- 9/02 . made of leather; having enveloping sheathings made  
of leather
- 9/04 . made of rubber or plastics (F16G 9/02 takes  
precedence)
- 11/00 Means for fastening cables or ropes to one another  
or to other objects; Caps or sleeves for fixing on  
cables or ropes (attaching ropes or cables to lift  
cars or cages B66B 7/08; to winch drums or barrels  
B66D 1/34; ground anchors E02D 5/00; anchoring  
devices for prestressed members E04C 5/00; rope  
clamps in earth drilling E21B 19/12)**
- 11/02 . with parts deformable to grip the cable or cables;  
Fastening means which engage a sleeve or the like  
fixed on the cable
- 11/025 . . {Fastening means which engage a sleeve or the  
like fixed on the cable, e.g. caps (F16G 11/143  
and F16G 11/146 take precedence)}
- 11/03 . incorporating resiliently-mounted members for  
attachment of the cable end
- 11/04 . with wedging action, e.g. friction clamps  
(F16G 11/02, {F16G 11/10} take precedence; {eyes  
for grommet-thimble type fastenings F16G 11/146})
- 11/042 . . {using solidifying liquid material forming a  
wedge}
- 11/044 . . {friction clamps deforming the cable, wire, rope  
or cord}
- 11/046 . . . {by bending the cable around a surface}
- 11/048 . . . {by moving a surface into the cable}
- 11/05 . . by using conical plugs insertable between the  
strands
- 11/06 . with laterally-arranged screws (F16G 11/02,  
F16G 11/04 take precedence)
- 11/08 . Fastenings for securing ends of driving-cables to  
one another, the fastenings having approximately  
the same diameter as the cables
- 11/09 . . incorporating hinge joints or pivots for the  
attachment of the cable ends
- 11/10 . Quick-acting fastenings; Clamps holding in one  
direction only
- 11/101 . . {deforming the cable by moving a part of the  
fastener}
- 11/103 . . {deforming the cable by bending it around or  
inserting it into the fastener}
- 11/105 . . {Clamps holding in one direction only}
- 11/106 . . . {using a toothed surface}
- 11/108 . . . {using a ball or a cylinder}
- 11/12 . Connections or attachments, e.g. turnbuckles,  
adapted for straining of cables, ropes, or wire  
(straining wire in general B21F 9/00)
- 11/14 . Devices or coupling-pieces designed for easy  
formation of adjustable loops, e.g. choker hooks;  
Hooks or eyes with integral parts designed to  
facilitate quick attachment to cables or ropes at any  
point, e.g. by forming loops
- 11/143 . . {Hooks}
- 11/146 . . {Eyes}
- 13/00 Chains (making thereof B21L)**
- 13/02 . Driving-chains (specially adapted to gearings with  
variable gear-ratio F16H 9/00)
- 13/04 . . Toothed chains
- 13/06 . . with links connected by parallel driving-pins  
with or without rollers {so called open links (if  
the parallel coupling pins have only a joining  
function - so called closed links - F16G 13/02)}
- 13/07 . . . the links being of identical shape, e.g. cranked
- 13/08 . . with links closely interposed on the joint pins  
(F16G 13/04 takes precedence)
- 13/10 . . with universal joints
- 13/12 . Hauling- or hoisting-chains {so called ornamental  
chains}
- 13/14 . . built up from readily-separable links
- 13/16 . . with arrangements for holding electric cables,  
hoses, or the like
- 13/18 . Chains having special overall characteristics
- 13/20 . . stiff; Push-pull chains
- 13/22 . . extensible {(not used, see F16G 13/18)}
- 13/24 . . . resilient {(not used, see F16G 13/18)}
- 15/00 Chain couplings, Shackles; Chain joints; Chain  
links; Chain bushes (making chain elements B21L)**
- 15/02 . for fastening more or less permanently
- 15/04 . Quickly-detachable chain couplings; Shackles  
{chain links with rapid junction means are classified  
according to the corresponding kind of chain}
- 15/06 . . Shackles designed for attachment by joint pins to  
chain elements, e.g. D-shackles {so called harp  
links; the D-chain links are classified according to  
the corresponding kind of chain}
- 15/08 . Swivels
- 15/10 . Emergency joints or links
- 15/12 . Chain links
- 15/14 . . made of sheet metal, e.g. profiled
- 17/00 Hooks as integral parts of chains (hooks for cranes  
B66C 1/34; hooks in general F16B 45/00)**