

# **F16 ENGINEERING ELEMENTS OR 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**

Attention is drawn to the following places:

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

|                                               |                           |                           |                        |
|-----------------------------------------------|---------------------------|---------------------------|------------------------|
| BELTS; BELT FASTENINGS .....                  | 1/00, 5/00;<br>3/00, 7/00 | CHAINS, CHAIN HOOKS ..... | 13/00, 15/00,<br>17/00 |
| CABLES OR ROPES; FASTENINGS<br>THEREFOR ..... | 9/00; 11/00               |                           |                        |

|             |                                                                                                                            |             |                                                                                                                                                   |
|-------------|----------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1/00</b> | <b>Driving-belts</b> (V-belts F16G 5/00; conveyer belts B65G)                                                              | 3/08        | . consisting of plates and screw-bolts or rivets (F16G 3/06 takes precedence)                                                                     |
| 1/02        | . made of leather (F16G 1/28 takes precedence; making thereof C14B 9/00)                                                   | 3/09        | . . the plates forming a hinge                                                                                                                    |
| 1/04        | . made of fibrous material, e.g. textiles, whether rubber-covered or not (F16G 1/28 takes precedence; making thereof D03D) | 3/10        | . Joining belts by sewing, sticking, vulcanising, or the like; Constructional adaptations of the belt ends for this purpose                       |
| 1/06        | . made of rubber (F16G 1/28 takes precedence; producing belts from plastics or substances in a plastic state B29D 29/00)   | 3/12        | . Joining belts by lacing                                                                                                                         |
| 1/08        | . . with reinforcement bonded by the rubber                                                                                | 3/14        | . with extensible parts; with resilient parts                                                                                                     |
| 1/10        | . . . with textile reinforcement                                                                                           | 3/16        | . Devices or machines for connecting driving-belts or the like                                                                                    |
| 1/12        | . . . with metal reinforcement                                                                                             |             |                                                                                                                                                   |
| 1/14        | . made of plastics (F16G 1/28 takes precedence; producing belts from plastics or substances in a plastic state B29D 29/00) | <b>5/00</b> | <b>V-belts, i.e. belts of tapered cross-section</b>                                                                                               |
| 1/16        | . . with reinforcement bonded by the plastic material                                                                      | 5/02        | . made of leather (F16G 5/20 takes precedence)                                                                                                    |
| 1/18        | . made of wire (making thereof B21F 43/00)                                                                                 | 5/04        | . made of rubber (F16G 5/20 takes precedence)                                                                                                     |
| 1/20        | . made of a single metal strip (making thereof B21D 53/14)                                                                 | 5/06        | . . with reinforcement bonded by the rubber                                                                                                       |
| 1/21        | . built-up from superimposed layers, e.g. zig-zag folded                                                                   | 5/08        | . . . with textile reinforcement                                                                                                                  |
| 1/22        | . consisting of several parts                                                                                              | 5/10        | . . . with metal reinforcement                                                                                                                    |
| 1/24        | . . in the form of links (in the shape of chain links F16G 13/08)                                                          | 5/12        | . made of plastics (F16G 5/20 takes precedence)                                                                                                   |
| 1/26        | . . in the form of strips or lamellae                                                                                      | 5/14        | . . with reinforcement bonded by the plastic material                                                                                             |
| 1/28        | . with a contact surface of special shape, e.g. toothed                                                                    | 5/16        | . consisting of several parts                                                                                                                     |
| <b>3/00</b> | <b>Belt fastenings, e.g. for conveyer belts</b> (for V-belts F16G 7/00)                                                    | 5/18        | . . in the form of links                                                                                                                          |
| 3/02        | . with series of eyes or the like, interposed and linked by a pin to form a hinge (F16G 3/09 takes precedence)             | 5/20        | . with a contact surface of special shape, e.g. toothed                                                                                           |
| 3/04        | . . in which the ends of separate U-shaped or like eyes are attached to the belt by parts penetrating into it              | 5/22        | . built-up from superimposed layers                                                                                                               |
| 3/06        | . with outwardly-bent, mutually-connected belt ends                                                                        | 5/24        | . . zig-zag folded                                                                                                                                |
| 3/07        | . Friction clamps, e.g. of grommet-thimble type                                                                            | <b>7/00</b> | <b>V-belt fastenings</b>                                                                                                                          |
|             |                                                                                                                            | 7/02        | . locked, e.g. riveted                                                                                                                            |
|             |                                                                                                                            | 7/04        | . quickly detachable                                                                                                                              |
|             |                                                                                                                            | 7/06        | . adjustable, e.g. for tension                                                                                                                    |
|             |                                                                                                                            | <b>9/00</b> | <b>Ropes or cables specially adapted for driving, or for being driven by, pulleys or other gearing elements</b> (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** (cable clamps for suspension bridge cables E01D 19/16); **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
  - 11/03 . incorporating resiliently-mounted members for attachment of the cable end
  - 11/04 . with wedging action, e.g. friction clamps of grommet-thimble type (F16G 11/02 takes precedence)
  - 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
  - 11/12 . 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 (crane hooks B66C 1/34; hooks or eyes in general F16B 45/00)

- 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
  - 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
  - 13/14 . . built up from readily-separable links **[3]**
  - 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
  - 13/24 . . . resilient
- 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
  - 15/06 . . Shackles designed for attachment by joint pins to chain elements, e.g. D-shackles
  - 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)