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:		
<u>B63B 21/04</u>	Fastening equipment for chains, ropes or the like for ships	
<u>B63B 21/20</u>	Adaptations of chains, ropes or the like for ships	
<u>B65G 15/30</u>	Endless conveyor belts	
<u>B65G 17/38, B65G 19/20</u>	Traction chains for conveyors	
<u>F16H</u>	Gearings using flexible members	
<u>F16H 9/24</u>	Chains specially adapted for gearings with variable ratio	
<u>H05F</u>	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.

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

F16G

5/10	• • • with metal reinforcement
5/12	• made of plastics (F16G 5/20 takes precedence
	{consisting of several parts <u>F16G 5/16</u> })
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 <u>D07B</u>)
9/02	• made of leather; having enveloping sheathings made of leather
9/04	• made of rubber or plastics (<u>F16G 9/02</u> 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 <u>B66B 7/08</u> , to winch drums or barrels
	<u>B66D 1/34;</u> ground anchors <u>E02D 5/00;</u> anchoring
	devices for prestressed members <u>E04C 5/00;</u> rope
	clamps in earth drilling <u>E21B 19/12</u>)
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 <u>F16G 11/146</u> take precedence)}
11/03	
	 incorporating resiliently-mounted members for
11/04	attachment of the cable end
11/04	attachment of the cable end with wedging action, e.g. friction clamps
11/04	 attachment of the cable end with wedging action, e.g. friction clamps (<u>F16G 11/02</u>, {<u>F16G 11/10</u>} take precedence; {eyes
11/04	 attachment of the cable end with wedging action, e.g. friction clamps (<u>F16G 11/02</u>, {<u>F16G 11/10</u>} take precedence; {eyes for grommet-thimble type fastenings <u>F16G 11/146</u>})
11/04	 attachment of the cable end with wedging action, e.g. friction clamps (F16G 11/02, {F16G 11/10} take precedence; {eyes for grommet-thimble type fastenings F16G 11/146}) {using solidifying liquid material forming a
11/042	 attachment of the cable end with wedging action, e.g. friction clamps (F16G 11/02, {F16G 11/10} take precedence; {eyes for grommet-thimble type fastenings F16G 11/146}) . {using solidifying liquid material forming a wedge}
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11/042 11/044	 attachment of the cable end with wedging action, e.g. friction clamps (F16G 11/02, {F16G 11/10} take precedence; {eyes for grommet-thimble type fastenings F16G 11/146}) {using solidifying liquid material forming a wedge} {friction clamps deforming the cable, wire, rope or cord}
11/042 11/044 11/046	 attachment of the cable end with wedging action, e.g. friction clamps (F16G 11/02, {F16G 11/10} take precedence; {eyes for grommet-thimble type fastenings F16G 11/146}) . {using solidifying liquid material forming a wedge} . {friction clamps deforming the cable, wire, rope or cord} . {by bending the cable around a surface}
11/042 11/044 11/046 11/048	 attachment of the cable end with wedging action, e.g. friction clamps (F16G 11/02, {F16G 11/10} take precedence; {eyes for grommet-thimble type fastenings F16G 11/146}) . {using solidifying liquid material forming a wedge} . {friction clamps deforming the cable, wire, rope or cord} . {by bending the cable around a surface} . {by moving a surface into the cable}
11/042 11/044 11/046	 attachment of the cable end with wedging action, e.g. friction clamps (F16G 11/02, {F16G 11/10} take precedence; {eyes for grommet-thimble type fastenings F16G 11/146}) {using solidifying liquid material forming a wedge} {friction clamps deforming the cable, wire, rope or cord} {by bending the cable around a surface} {by moving a surface into the cable} by using conical plugs insertable between the
11/042 11/044 11/046 11/048 11/05	 attachment of the cable end with wedging action, e.g. friction clamps (F16G 11/02, {F16G 11/10} take precedence; {eyes for grommet-thimble type fastenings F16G 11/146}) {using solidifying liquid material forming a wedge} {friction clamps deforming the cable, wire, rope or cord} {by bending the cable around a surface} {by moving a surface into the cable} by using conical plugs insertable between the strands
11/042 11/044 11/046 11/048	 attachment of the cable end with wedging action, e.g. friction clamps (F16G 11/02, {F16G 11/10} take precedence; {eyes for grommet-thimble type fastenings F16G 11/146}) {using solidifying liquid material forming a wedge} {friction clamps deforming the cable, wire, rope or cord} {by bending the cable around a surface} {by moving a surface into the cable} by using conical plugs insertable between the strands with laterally-arranged screws (F16G 11/02,
11/042 11/044 11/046 11/048 11/05	 attachment of the cable end with wedging action, e.g. friction clamps (F16G 11/02, {F16G 11/10} take precedence; {eyes for grommet-thimble type fastenings F16G 11/146}) {using solidifying liquid material forming a wedge} {friction clamps deforming the cable, wire, rope or cord} {by bending the cable around a surface} {by moving a surface into the cable} by using conical plugs insertable between the strands with laterally-arranged screws (F16G 11/02, F16G 11/04 take precedence)
11/042 11/044 11/046 11/048 11/05 11/06	 attachment of the cable end with wedging action, e.g. friction clamps (F16G 11/02, {F16G 11/10} take precedence; {eyes for grommet-thimble type fastenings F16G 11/146}) . {using solidifying liquid material forming a wedge} . {friction clamps deforming the cable, wire, rope or cord} . {by bending the cable around a surface} . {by moving a surface into the cable} . by using conical plugs insertable between the strands with laterally-arranged screws (F16G 11/02, F16G 11/04 take precedence) Fastenings for securing ends of driving-cables to
11/042 11/044 11/046 11/048 11/05 11/06	 attachment of the cable end with wedging action, e.g. friction clamps (F16G 11/02, {F16G 11/10} take precedence; {eyes for grommet-thimble type fastenings F16G 11/146}) {using solidifying liquid material forming a wedge} {friction clamps deforming the cable, wire, rope or cord} {by bending the cable around a surface} {by moving a surface into the cable} by using conical plugs insertable between the strands with laterally-arranged screws (F16G 11/02, F16G 11/04 take precedence)
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11/042 11/044 11/046 11/048 11/05 11/06 11/08	 attachment of the cable end with wedging action, e.g. friction clamps (F16G 11/02, {F16G 11/10} take precedence; {eyes for grommet-thimble type fastenings F16G 11/146}) {using solidifying liquid material forming a wedge} {friction clamps deforming the cable, wire, rope or cord} {by bending the cable around a surface} {by moving a surface into the cable} by using conical plugs insertable between the strands with laterally-arranged screws (F16G 11/02, F16G 11/04 take precedence) Fastenings for securing ends of driving-cables to one another, the fastenings having approximately
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11/042 11/044 11/046 11/048 11/05 11/06 11/08 11/09	 attachment of the cable end with wedging action, e.g. friction clamps (F16G 11/02, {F16G 11/10} take precedence; {eyes for grommet-thimble type fastenings F16G 11/146}) {using solidifying liquid material forming a wedge} {friction clamps deforming the cable, wire, rope or cord} {by bending the cable around a surface} {by moving a surface into the cable} by using conical plugs insertable between the strands with laterally-arranged screws (F16G 11/02, F16G 11/04 take precedence) Fastenings for securing ends of driving-cables to one another, the fastenings having approximately the same diameter as the cables incorporating hinge joints or pivots for the attachment of the cable ends

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 <u>B21F 9/00</u>)
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 <u>B21L</u>)
13/02	• Driving-chains (specially adapted to gearings with
	variable gear-ratio <u>F16H 9/00</u>)
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
10/07	function - so called closed links - <u>F16G 13/02</u>)}
13/07	• • • the links being of identical shape, e.g. cranked
13/08	• with links closely interposed on the joint pins
13/10	(F16G 13/04 takes precedence)with universal joints
13/10	 Hauling- or hoisting-chains {so called ornamental
13/12	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	$\dots \text{ resilient } \{(\text{not used}, \underline{\text{see } F16G 13/18})\}$
15/00	Chain couplings, Shackles; Chain joints; Chain
	links; Chain bushes (making chain elements <u>B21L</u>)
15/02	. for fastening more or less permanently
15/04	• Quickly-detachable chain couplings; Shackles
	{chain links with rapid junction means are classified
15/06	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
17,00	B66C 1/34; hooks in general F16B 45/00)