

# CPC COOPERATIVE PATENT CLASSIFICATION

**E01D CONSTRUCTION OF BRIDGES, {ELEVATED ROADWAYS} OR VIADUCTS; ASSEMBLY OF BRIDGES** (bridges extending between terminal buildings and aircraft for embarking or disembarking passengers [B64F 1/305](#); {tracks for special kinds of railways [E01B 25/00](#); culverts [E01F 5/005](#)})

## WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[E01D 24/00](#) covered by

<b>1/00</b>	<b>Bridges in general</b> (characterised by their structural type <a href="#">E01D 4/00</a> - <a href="#">E01D 15/00</a> )	15/133	. . built-up from readily separable standardised sections or elements, e.g. Bailey bridges ( <a href="#">E01D 15/127</a> takes precedence)
1/005	. {Bowstring bridges (truss-type bowstring bridges <a href="#">E01D 6/02</a> )}	15/14	. Floating bridges, e.g. pontoon bridges (landing bridges <a href="#">E01D 15/24</a> ; floating bodies or pontoons <a href="#">B63B</a> )
<b>2/00</b>	<b>Bridges characterised by the cross-section of their bearing spanning structure</b>	15/145	. . {displaceable or with sections movable to allow passing of water-borne traffic (movable bridges actuated by floating bodies <a href="#">E01D 15/005</a> - <a href="#">E01D 15/10</a> )}
2/02	. of the I-girder type		
2/04	. of the box-girder type		
<b>4/00</b>	<b>Arch-type bridges</b>	15/20	. . collapsible, expandable, inflatable or the like {with main load supporting structure consisting only of non-rigid members} ( <a href="#">E01D 15/22</a> takes precedence)
<b>6/00</b>	<b>Truss-type bridges</b>	15/22	. . designed as, or mounted on, vehicles
6/02	. of bowstring type	15/24	. Bridges or similar structures, based on land or on a fixed structure and designed to give access to ships or other floating structures (arrangement of ship-based ramps <a href="#">B63B 27/14</a> ; loading ramps <a href="#">B65G 69/28</a> )
<b>11/00</b>	<b>Suspension or cable-stayed bridges</b>		
11/02	. Suspension bridges		
11/04	. Cable-stayed bridges		
<b>12/00</b>	<b>Bridges characterised by a combination of structures not covered as a whole by a single one of groups <a href="#">E01D 2/00</a> - <a href="#">E01D 11/00</a></b>		
<b>15/00</b>	<b>Movable or portable bridges; Floating bridges</b>	<b>18/00</b>	<b>Bridges specially adapted for particular applications or functions not provided for elsewhere, e.g. aqueducts, bridges for supporting pipe-lines</b>
15/005	. {Movable bridges in general (floating bridges with sections movable to allow passing of water-borne traffic <a href="#">E01D 15/145</a> ; lock gates <a href="#">E02B 7/20</a> ); Constructional elements peculiar to movable bridges}	<b>19/00</b>	<b>Structural or constructional details of bridges</b>
15/02	. Vertical lift bridges	19/005	. {Piers, trestles, bearings, expansion joints or parapets specially adapted for portable or sectional bridges}
15/04	. Swing bridges		
15/06	. Bascule bridges; Roller bascule bridges, e.g. of Scherzer type	19/02	. Piers {( <a href="#">E01D 19/005</a> takes precedence; towers for suspension bridges <a href="#">E01D 19/14</a> ); Abutments (foundations <a href="#">E02D</a> ); {Protecting same against drifting ice (against colliding vehicles <a href="#">E01F 15/00</a> )}
15/08	. . Drawbridges		
15/10	. Travelling bridges {, i.e. roller bridges}; Sliding bridges; Rotary cylinder bridges, i.e. rotating about longitudinal axis to invert and raise the road	19/04	. Bearings {( <a href="#">E01D 19/005</a> takes precedence; specially for movable bridges <a href="#">E01D 15/005</a> - <a href="#">E01D 15/10</a> ); Hinges
15/12	. Portable or sectional bridges (floating bridges <a href="#">E01D 15/14</a> )	19/041	. . {Elastomeric bearings ( <a href="#">E01D 19/048</a> takes precedence)}
15/122	. . {Inflatable or unreelable bridges (inflatable or unreelable girders in general <a href="#">E04C 3/005</a> ); Bridges with main load-supporting structure consisting only of non-rigid elements, e.g. cables}	19/042	. . {Mechanical bearings ( <a href="#">E01D 19/048</a> takes precedence)}
15/124	. . {Folding or telescopic bridges; Bridges built up from folding or telescopic sections ( <a href="#">E01D 15/122</a> , <a href="#">E01D 15/127</a> take precedence; folding or telescopic girders in general <a href="#">E04C 3/005</a> )}	19/043	. . . {Roller bearings}
		19/045	. . . {Line and point rocker bearings}
		19/046	. . . {Spherical bearings}
		19/047	. . . {Pot bearings}
15/127	. . combined with ground-supported vehicles for the transport, handling or placing of such bridges or of sections thereof	19/048	. . {Bearings being adjustable once installed; Bearings used in incremental launching}

## E01D

19/06	<ul style="list-style-type: none"> <li>Arrangement, construction or bridging of expansion joints ({<a href="#">E01D 19/005</a> takes precedence; in movable bridges <a href="#">E01D 15/005</a> - <a href="#">E01D 15/10</a>}; sealing joints not restricted to expansion joints for bridges <a href="#">E04B 1/68</a>)</li> </ul>	2101/262	<ul style="list-style-type: none"> <li>. . . . {with steel fibres}</li> </ul>
19/062	<ul style="list-style-type: none"> <li>. . {Joints having intermediate beams}</li> </ul>	2101/264	<ul style="list-style-type: none"> <li>. . . . {with glass fibres}</li> </ul>
19/065	<ul style="list-style-type: none"> <li>. . {Joints having sliding plates}</li> </ul>	2101/266	<ul style="list-style-type: none"> <li>. . . . {with fibres other than steel or glass}</li> </ul>
19/067	<ul style="list-style-type: none"> <li>. . {Flat continuous joints cast <i>in situ</i>}</li> </ul>	2101/268	<ul style="list-style-type: none"> <li>. . . . {Composite concrete-metal}</li> </ul>
19/08	<ul style="list-style-type: none"> <li>Damp-proof or other insulating layers; Drainage arrangements or devices {Bridge deck surfacings (bridge decks <i>per se</i> <a href="#">E01D 19/125</a>)}</li> </ul>	2101/28	<ul style="list-style-type: none"> <li>. . . . prestressed</li> </ul>
19/083	<ul style="list-style-type: none"> <li>. . {Waterproofing of bridge decks; Other insulations for bridges, e.g. thermal (insulation for buildings in general <a href="#">E04B 1/62</a>); Bridge deck surfacings (road surfacings in general <a href="#">E01C</a>)}</li> </ul>	2101/285	<ul style="list-style-type: none"> <li>. . . . . {Composite prestressed concrete-metal}</li> </ul>
19/086	<ul style="list-style-type: none"> <li>. . {Drainage arrangements or devices (surface drainage of roads in general <a href="#">E01C 11/224</a>; roof drainage <a href="#">E04D 13/04</a>)}</li> </ul>	2101/30	<ul style="list-style-type: none"> <li>. Metal (<a href="#">E01D 2101/26</a> takes precedence)</li> </ul>
19/10	<ul style="list-style-type: none"> <li>Railings; Protectors against smoke or gases, e.g. of locomotives; Maintenance travellers; Fastening of pipes or cables to bridges ({<i>pipe-line</i> bridges <a href="#">E01D 18/00</a>}; supports for pipes, cables or protective tubing, e.g. hangers, holders, clamps, cleats, clips, brackets, <a href="#">F16L 3/00</a>)</li> </ul>	2101/32	<ul style="list-style-type: none"> <li>. . prestressed</li> </ul>
19/103	<ul style="list-style-type: none"> <li>. . {Parapets, railings (<a href="#">E01D 19/005</a> takes precedence; balustrades in general <a href="#">E04F 11/18</a>); Guard barriers or road-bridges (in general <a href="#">E01F 15/00</a>)}</li> </ul>	2101/34	<ul style="list-style-type: none"> <li>. . non-ferrous, e.g. aluminium</li> </ul>
19/106	<ul style="list-style-type: none"> <li>. . {Movable inspection or maintenance platforms, e.g. travelling scaffolding or vehicles specially designed to provide access to the undersides of bridges (lifting devices for movable platforms on vehicles in general <a href="#">B66F 11/04</a>)}</li> </ul>	2101/40	<ul style="list-style-type: none"> <li>. Plastics</li> </ul>
19/12	<ul style="list-style-type: none"> <li>Grating or flooring for bridges; Fastening railway sleepers or tracks to bridges (sleepers <a href="#">E01B 3/00</a>)</li> </ul>		
19/125	<ul style="list-style-type: none"> <li>. . {Grating or flooring for bridges (waterproofing thereof <a href="#">E01D 19/083</a>; floors in general <a href="#">E04B 5/00</a>)}</li> </ul>		
19/14	<ul style="list-style-type: none"> <li>Towers; Anchors; {Connection of cables to bridge parts}; Saddle supports</li> </ul>		
19/16	<ul style="list-style-type: none"> <li>Suspension cables; Cable clamps for suspension cables; {Pre- or post-stressed cables}</li> </ul>		
<b>21/00</b>	<b>Methods or apparatus specially adapted for erecting or assembling bridges</b>		
21/06	<ul style="list-style-type: none"> <li>by translational movement of the bridge or bridge sections ({<a href="#">E01D 15/127</a>, <a href="#">E01D 15/133</a> and <a href="#">E01D 21/10</a> take precedence})</li> </ul>		
21/065	<ul style="list-style-type: none"> <li>. . {Incremental launching}</li> </ul>		
21/08	<ul style="list-style-type: none"> <li>by rotational movement of the bridge or bridge sections</li> </ul>		
21/10	<ul style="list-style-type: none"> <li>Cantilevered erection</li> </ul>		
21/105	<ul style="list-style-type: none"> <li>. . {Balanced cantilevered erection}</li> </ul>		
<b>22/00</b>	<b>Methods or apparatus for repairing or strengthening existing bridges {(electrochemical desalination or re-alkalisation <a href="#">C04B 41/00</a>); Methods or apparatus for dismantling bridges}</b>		
<b>2101/00</b>	<b>Material constitution of bridges</b>		
2101/10	<ul style="list-style-type: none"> <li>Wood</li> </ul>		
2101/20	<ul style="list-style-type: none"> <li>Concrete, stone or stone-like material</li> </ul>		
2101/22	<ul style="list-style-type: none"> <li>. . Masonry; Bricks</li> </ul>		
2101/24	<ul style="list-style-type: none"> <li>. . Concrete</li> </ul>		
2101/26	<ul style="list-style-type: none"> <li>. . . reinforced</li> </ul>		