## CPC COOPERATIVE PATENT CLASSIFICATION

## E FIXED CONSTRUCTIONS

## **BUILDING**

## E01 CONSTRUCTION OF ROADS, RAILWAYS, OR BRIDGES

# E01D CONSTRUCTION OF BRIDGES, {ELEVATED ROADWAYS} OR VIADUCTS; ASSEMBLY OF BRIDGES (bridges extending between terminal buildings and aircraft for embarking or disembarking passengers <u>B64F 1/305</u>; {tracks for special kinds of railways

E01B 25/00; culverts E01F 5/005})

#### **WARNINGS**

The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:
 E01D 24/00 covered by E01D 22/00

2. 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> 1/005	Bridges in general (characterised by their structural type E01D 4/00 - E01D 15/00)  • {Bowstring bridges (truss-type bowstring bridges E01D 6/02)}	15/122	• • {Inflatable or unreelable bridges (inflatable or unreelable girders in general <u>E04C 3/005</u> ); Bridges with main load-supporting structure consisting only of non-rigid elements, e.g. cables}
<b>2/00</b> 2/02	Bridges characterised by the cross-section of their bearing spanning structure . of the I-girder type	15/124	• • {Folding or telescopic bridges; Bridges built up from folding or telescopic sections (E01D 15/122, E01D 15/127 take precedence; folding or
2/04	of the box-girder type	15/127	<ul> <li>telescopic girders in general E04C 3/005)}</li> <li>combined with ground-supported vehicles for the transport, handling or placing of such bridges or of sections thereof</li> </ul>
4/00	Arch-type bridges		
<b>6/00</b> 6/02	Truss-type bridges . of bowstring type	15/133	<ul> <li>built-up from readily separable standardised sections or elements, e.g. Bailey bridges (E01D 15/127 takes precedence)</li> </ul>
<b>11/00</b> 11/02 11/04	Suspension or cable-stayed bridges  Suspension bridges Cable-stayed bridges	15/14	• Floating bridges, e.g. pontoon bridges (landing bridges <u>E01D 15/24</u> ; floating bodies or pontoons <u>B63B</u> )
12/00	Bridges characterised by a combination of structures not covered as a whole by a single one of groups $\underline{E01D\ 2/00}$ - $\underline{E01D\ 11/00}$	15/145	<ul> <li>{ displaceable or with sections movable to allow passing of water-borne traffic (movable bridges actuated by floating bodies E01D 15/005 - E01D 15/10)}</li> </ul>
<b>15/00</b> 15/005	Movable or portable bridges; Floating bridges  • {Movable bridges in general (floating bridges with sections movable to allow passing of waterborne traffic E01D 15/145; lock gates E02B 7/20);	15/20	• collapsible, expandable, inflatable or the like {with main load supporting structure consisting only of non-rigid members}(E01D 15/22 takes precedence)
	Constructional elements peculiar to movable	15/22	designed as, or mounted on, vehicles
15/02 15/04 15/06	<ul> <li>bridges}</li> <li>Vertical lift bridges</li> <li>Swing bridges</li> <li>Bascule bridges; Roller bascule bridges, e.g. of Scherzer type</li> </ul>	15/24	<ul> <li>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 <u>B63B 27/14</u>; loading ramps <u>B65G 69/28</u>)</li> </ul>
15/08 15/10	<ul> <li>Drawbridges</li> <li>Travelling bridges {, i.e. roller bridges}; Sliding bridges; Rotary cylinder bridges, i.e. rotating about longitudinal axis to invert and raise the road</li> <li>Portable or sectional bridges (floating bridges</li> </ul>	18/00	Bridges specially adapted for particular applications or functions not provided for elsewhere, e.g. aqueducts, bridges for supporting pipe-lines
13/12	E01D 15/14)	<b>19/00</b> 19/005	Structural or constructional details of bridges  • {Piers, trestles, bearings, expansion joints or

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parapets specially adapted for portable or sectional

bridges}

19/02	• Piers {( <u>E01D 19/005</u> takes precedence; towers	21/065	• • {Incremental launching}
	for suspension bridges <u>E01D 19/14</u> )}; Abutments	21/08	<ul> <li>by rotational movement of the bridge or bridge</li> </ul>
	(foundations <u>E02D</u> ) {; Protecting same against		sections
19/04	drifting ice (against colliding vehicles <u>E01F 15/00</u> )}	21/10	. Cantilevered erection
19/04	Bearings {(E01D 19/005 takes precedence; specially for movable bridges	21/105	{Balanced cantilevered erection}
	E01D 15/005 - E01D 15/10)}; Hinges	22/00	Methods or apparatus for repairing or
19/041	• • {Elastomeric bearings (E01D 19/048 takes		strengthening existing bridges {(electrochemical
	precedence)}		desalination or re-alkalisation <u>C04B 41/00</u> ); <b>Methods</b>
19/042	• • {Mechanical bearings (E01D 19/048 takes		or apparatus for dismantling bridges}
	precedence)}	2101/00	Matarial constitution of building
19/043	• • • {Roller bearings}	2101/00	Material constitution of bridges Wood
19/045	• • • {Line and point rocker bearings}	2101/10	Concrete, stone or stone-like material
19/046	• • • {Spherical bearings}	2101/20	Masonry; Bricks
19/047	• • • {Pot bearings}	2101/22	Concrete
19/048	• • {Bearings being adjustable once installed;	2101/24	reinforced
	Bearings used in incremental launching}	2101/262	• • • {with steel fibres}
19/06	• Arrangement, construction or bridging of expansion	2101/264	• • • {with steel libres}
	joints ({E01D 19/005 takes precedence; in movable bridges E01D 15/005 - E01D 15/10}; sealing	2101/266	• • • {with glass iteres} • • • • {with fibres other than steel or glass}
	joints not restricted to expansion joints for bridges	2101/268	{Composite concrete-metal}
	E04B 1/68)	2101/28	prestressed
19/062	• • {Joints having intermediate beams}	2101/285	{Composite prestressed concrete-metal}
19/065	• • {Joints having sliding plates}	2101/30	• Metal (E01D 2101/26 takes precedence)
19/067	• • {Flat continuous joints cast in situ}	2101/32	• prestressed
19/08	<ul> <li>Damp-proof or other insulating layers; Drainage</li> </ul>	2101/34	non-ferrous, e.g. aluminium
	arrangements or devices {; Bridge deck surfacings	2101/40	• Plastics
	(bridge decks <u>per se</u> <u>E01D 19/125</u> )}		
19/083	• • {Waterproofing of bridge decks; Other		
	insulations for bridges, e.g. thermal (insulation		
	for buildings in general <u>E04B 1/62</u> ); Bridge deck surfacings (road surfacings in general <u>E01C</u> )}		
19/086	• • {Drainage arrangements or devices (surface)}		
17/000	drainage of roads in general E01C 11/224; roof		
	drainage <u>E04D 13/04</u> )}		
19/10	. Railings; Protectors against smoke or gases,		
	e.g. of locomotives; Maintenance travellers;		
	Fastening of pipes or cables to bridges ({pipe-line		
	bridges <u>E01D 18/00</u> }; supports for pipes, cables or protective tubing, e.g. hangers, holders, clamps,		
	cleats, clips, brackets, F16L 3/00)		
19/103	• • {Parapets, railings ( <u>E01D 19/005</u> takes		
15/100	precedence; balustrades in general <u>E04F 11/18</u> );		
	Guard barriers or road-bridges (in general		
	E01F 15/00)}		
19/106	• • {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 <u>B66F 11/04</u> )}		
19/12	• Grating or flooring for bridges; Fastening railway		
17/12	sleepers or tracks to bridges (sleepers E01B 3/00)		
19/125	• • {Grating or flooring for bridges (waterproofing		
	thereof E01D 19/083; floors in general		
	<u>E04B 5/00</u> )}		
19/14	• Towers; Anchors {; Connection of cables to bridge		
	parts}; Saddle supports		
19/16	Suspension cables; Cable clamps for suspension		
	cables {; Pre- or post-stressed cables}		
21/00	Methods or apparatus specially adapted for		
	erecting or assembling bridges		
21/06	• by translational movement of the bridge or bridge		
	sections {(E01D 15/127, E01D 15/133 and E01D 21/10 take precedence)}		
	E01D 21/10 take precedence)}		

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