

**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](#) })

**Guidance heading:**

**E01D 1/00**      **Bridges in general** (characterised by their structural type [E01D 4/00](#) to [E01D 15/00](#))

[E01D 1/005](#)      .    {Bowstring bridges (truss-type bowstring bridges [E01D 6/02](#)) }

**E01D 2/00**      **Bridges characterised by the cross-section of their bearing spanning structure**

[E01D 2/02](#)      .    of the I-girder type

[E01D 2/04](#)      .    of the box-girder type

**E01D 4/00**      **Arch-type bridges**

**E01D 6/00**      **Truss-type bridges**

[E01D 6/02](#)      .    of bowstring type

**E01D 11/00**      **Suspension or cable-stayed bridges**

[E01D 11/02](#)      .    Suspension bridges

[E01D 11/04](#)      .    Cable-stayed bridges

**E01D 12/00**      **Bridges characterised by a combination of structures not covered as a whole by a single one of groups [E01D 2/00](#) to [E01D 11/00](#)**

**E01D 15/00**      **Movable or portable bridges; Floating bridges**

[E01D 15/005](#)      .    {Movable bridges in general (floating bridges with sections movable to allow passing of water-borne traffic [E01D 15/145](#); lock gates [E02B 7/20](#)) ; Constructional elements peculiar to movable bridges }

[E01D 15/02](#)      .    Vertical lift bridges

[E01D 15/04](#)      .    Swing bridges

[E01D 15/06](#)      .    Bascule bridges; Roller bascule bridges, e.g. of Scherzer type

- E01D 15/08      ..      Drawbridges
- E01D 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
- E01D 15/12      .      Portable or sectional bridges (floating bridges [E01D 15/14](#))
- E01D 15/122      ..      {Inflatable or unreelable bridges (inflatable or unreelable girders in general [E04C 3/00B](#)) ; Bridges with main load-supporting structure consisting only of non-rigid elements, e.g. cables }
- E01D 15/124      ..      {Folding or telescopic bridges; Bridges built up from folding or telescopic sections ([E01D 15/122](#), [E01D 15/127](#) take precedence; folding or telescopic girders in general [E04C 3/005](#)) }
- E01D 15/127      ..      combined with ground-supported vehicles for the transport, handling or placing of such bridges or of sections thereof
- E01D 15/133      ..      built-up from readily separable standardised sections or elements, e.g. Bailey bridges ([E01D 15/127](#) takes precedence)
- E01D 15/14      .      Floating bridges, e.g. pontoon bridges (landing bridges [E01D 15/24](#); floating bodies or pontoons [B63B](#) )
- E01D 15/145      ..      {displaceable or with sections movable to allow passing of water-borne traffic (movable bridges actuated by floating bodies [E01D 15/005](#) to [E01D 15/10](#)) }
- E01D 15/20      ..      collapsible, expandable, inflatable or the like {with main load supporting structure consisting only of non-rigid members } ([E01D 15/22](#) takes precedence)
- E01D 15/22      ..      designed as, or mounted on, vehicles
- E01D 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 B63B 27/14](#); [loading ramps B65G 69/28](#))
- E01D 18/00      Bridges specially adapted for particular applications or functions not provided for elsewhere, e.g. aqueducts, bridges for supporting pipe-lines**
- E01D 19/00      Structural or constructional details of bridges**
- E01D 19/005      .      {Piers, trestles, bearings, expansion joints or parapets specially adapted for portable or sectional bridges }
- E01D 19/02      .      Piers { ([E01D 19/005](#) takes precedence; towers for suspension bridges [E01D 19/14](#)) }; Abutments (foundations [E02D](#) ) ; {Protecting same against drifting ice (against colliding vehicles [E01F 15/00](#)) }
- E01D 19/04      .      Bearings { ([E01D 19/005](#) takes precedence; specially for movable bridges [E01D 15/005](#) to [E01D 15/10](#)) }; Hinges
- E01D 19/041      ..      {Elastomeric bearings ([E01D 19/048](#) takes precedence) }
- E01D 19/042      ..      {Mechanical bearings ([E01D 19/048](#) takes precedence) }
- E01D 19/043      ...      {Roller bearings }
- E01D 19/045      ...      {Line and point rocker bearings }
- E01D 19/046      ...      {Spherical bearings }
- E01D 19/047      ...      {Pot bearings }

- E01D 19/048      ..      {Bearings being adjustable once installed; Bearings used in incremental launching }
  
- E01D 19/06      .      Arrangement, construction or bridging of expansion joints ( {[E01D 19/005](#) takes precedence; in movable bridges [E01D 15/005](#) to [E01D 15/10](#) }; sealing joints not restricted to expansion joints for bridges [E04B 1/68](#) )
  
- E01D 19/062      ..      {Joints having intermediate beams }
- E01D 19/065      ..      {Joints having sliding plates }
- E01D 19/067      ..      {Flat continuous joints cast in situ }
  
- E01D 19/08      .      Damp-proof or other insulating layers; Drainage arrangements or devices {Bridge deck surfacings (bridge decks per se [E01D 19/125](#) ) }
  
- E01D 19/083      ..      {Waterproofing of bridge decks; Other insulations for bridges, e.g. thermal (insulation for buildings in general [E04B 1/62](#) ) ; Bridge deck surfacings (road surfacings in general [E01C](#) ) }
  
- E01D 19/086      ..      {Drainage arrangements or devices (surface drainage of roads in general [E01C 11/224](#); roof drainage [E04D 13/04](#) ) }
  
- E01D 19/10      .      Railings; Protectors against smoke or gases, e.g. of locomotives; Maintenance travellers; Fastening of pipes or cables to bridges ( {pipe-line bridges [E01D 18/00](#) }; supports for pipes, cables or protective tubing, e.g. hangers, holders, clamps, cleats, clips, brackets, [F16L 3/00](#) )
  
- E01D 19/103      ..      {Parapets, railings ([E01D 19/005](#) takes precedence; balustrades in general [E04F 11/18](#) ) ; Guard barriers or road-bridges (in general [E01F 15/00](#) ) }
  
- E01D 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 [B66F 11/04](#) ) }
  
- E01D 19/12      .      Grating or flooring for bridges; Fastening railway sleepers or tracks to bridges (sleepers [E01B 3/00](#) )
  
- E01D 19/125      ..      {Grating or flooring for bridges (waterproofing thereof [E01D 19/083](#); floors in general [E04B 5/00](#) ) }
  
- E01D 19/14      .      Towers; Anchors; {Connection of cables to bridge parts }; Saddle supports
  
- E01D 19/16      .      Suspension cables; Cable clamps for suspension cables; {Pre- or post-stressed cables }
  
- E01D 21/00      Methods or apparatus specially adapted for erecting or assembling bridges**
  
- E01D 21/06      .      by translational movement of the bridge or bridge sections { ([E01D 15/127](#), [E01D 15/133](#) and [E01D 21/10](#) take precedence) }
  
- E01D 21/065      ..      {Incremental launching }
  
- E01D 21/08      .      by rotational movement of the bridge or bridge sections
  
- E01D 21/10      .      Cantilevered erection
- E01D 21/105      ..      {Balanced cantilevered erection }
  
- E01D 22/00      Methods or apparatus for repairing or strengthening existing bridges { (electrochemical desalination or re-alkalisation [C04B 41/00](#) ) ; Methods or apparatus for dismantling bridges }**

**Guidance heading:****E01D 2101/00      Material constitution of bridges**

- E01D 2101/10      .    Wood
- E01D 2101/20      .    Concrete, stone or stone-like material
- E01D 2101/22      ..    Masonry; Bricks
- E01D 2101/24      ..    Concrete
- E01D 2101/26      ...    reinforced
- E01D 2101/262      ....    with steel fibres
- E01D 2101/264      ....    with glass fibres
- E01D 2101/266      ....    with fibres other than steel or glass
- E01D 2101/268      ....    Composite concrete-metal
- E01D 2101/28      ....    prestressed
- E01D 2101/285      .....    Composite prestressed concrete-metal
- E01D 2101/30      .    Metal ([E01D 2101/26](#) takes precedence)
- E01D 2101/32      ..    prestressed
- E01D 2101/34      ..    non-ferrous, e.g. aluminium
- E01D 2101/40      .    Plastics