

E01D

CONSTRUCTION OF BRIDGES, [N: ELEVATED ROADWAYS] OR VIADUCTS; ASSEMBLY OF BRIDGES (bridges extending between terminal buildings and aircraft for embarking or disembarking passengers B64F1/305; [N: tracks for special kinds of railways E01B25/00; culverts E01F5/005]

Definition statement

This subclass/group covers:

Spanning structures, e.g. railway bridges, for allowing traffic, e.g. pedestrians, automobiles, trains, to travel across naturally occurring obstructions, e.g. gorges, bodies of water, or over man-made obstacles, e.g. roads, canals. Each spanning structure including obstruction or obstacle traversing structure that provides a passageway for traffic and links or is held up by:

- one or more supports supported by the surface of the earth, e.g. arch-type bridges with end supports, lift-type bridges with single main support, portable-type bridges with wheeled support; or
- one or more buoyant supports which contact a fluid type obstruction or obstacle being crossed, e.g. floating-type bridges with buoyant support.

Spanning structures used for purposes other than carrying traffic, e.g. aqueducts, that are structurally similar to spanning structures for traffic and traverse the same types of obstructions and obstacles.

Specially adapted components for use in spanning structures, e.g. suspension cable clamps.

Accessories or ancillary devices specially adapted for use with spanning structures. e.g. drawbridge gates that are actuated when the span moves.

Methods specially adapted for constructing spanning structures, e.g. specially adapted bridge erecting or assembling techniques.

Methods specially adapted for restoring damaged, e.g. replacing dilapidated decking, or structurally augmenting, e.g. strengthening existing component to allow increased traffic load, existing spanning structures.

Methods specially adapted for demolishing or dismantling spanning structures.

Apparatus specially adapted for constructing, restoring, augmenting, or demolishing spanning structures.

References relevant to classification in this subclass

This subclass/group does not cover:

Highways or trackways for toys that may include bridges	A63H 18/00
Model railway bridges	A63H 19/34
Arrangement of ship based onboard ramps or gangways	B63B 27/14
Bridges extending between terminal buildings and aircraft for embarking or disembarking	B64F 1/305
Loading ramps	B65G 96/28
Supports that may include structure for spanning a road and supporting electric lines or communication cable going to overhead road signs or traffic signals	E01F 9/011
Floating tunnels or submerged bridge-like tunnels	E02D 29/067
Laying or reclaiming pipes; Repairing or joining pipes on or under water	F16L 1/00
Supports for pipes, cables or protective tubing	F16L 3/00
Floating power or information cables	H01B 7/12
Overhead installations of electric lines or cables	H02G 7/00
Installations of electric cables or lines in or on the ground or water	H02G 9/00
Installations of electric cables or lines in or upon bodies of water that are supported by floats	H02G 9/12

Informative references

Attention is drawn to the following places, which may be of interest for search:

Constructions in general and structures which are not restricted to walls	E04B 1/00
Wrecking of buildings in general	E04G 23/08
Towers, masts, poles and methods of erecting such structures	E04H 12/00
Flexible rubber or plastic pipes that are buoyant	F16L 11/133
Pipeline systems for gases, liquids or viscous products	F17D 1/00
Demolition of tall structures	F42D 3/02

Special rules of classification within this subclass

Relevant information with respect to the material constitution of bridges, i.e. wood, concrete, stone or stone-like, metal and plastic are additionally classified in [E01D 2101/00](#).

E01D 1/00

Bridges in general (characterised by their structural type E01D4/00 to E01D15/00)

Definition statement

This subclass/group covers:

Bridges not covered by any of the other types of bridges

References relevant to classification in this group

This subclass/group does not cover:

Arch-type bridges	E01D 4/00
Truss-type bridges	E01D 6/00
Suspension or cable stay bridges	E01D 11/00
Suspension ferries	E01D 13/00

Movable or portable bridges	E01D 15/00
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E01D 2/00

Bridges characterised by the cross-section of their bearing spanning structure

Special rules of classification within this group

Bridges having a cross section like e.g. I-beam, T-beam or boxgirder type. [E01D 4/00](#) to [E01D 15/00](#) take precedence.

E01D 4/00

Arch-type bridges

E01D 6/00

Truss-type bridges

Definition statement

This subclass/group covers:

Bridge composed of connected elements (typically straight) which may be stressed from tension or compression.

References relevant to classification in this group

This subclass/group does not cover:

Portable bridges, like Bailey bridges	E01D 15/133
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E01D 11/00

Suspension or cable-stayed bridges

Definition statement

This subclass/group covers:

Bridges where the deck is supported by cables.

E01D 12/00

Bridges characterised by a combination of structures not

covered as a whole by a single one of groups E01D2/00 to E01D11/00

Relationship between large subject matter areas

This group is not used.

E01D 15/00

Movable or portable bridges; Floating bridges

Definition statement

This subclass/group covers:

Movable bridges for allowing passing of (waterborne) traffic, e.g. lift, swing, travelling or bascule bridges. Portable bridges being mainly temporary or military bridges.

References relevant to classification in this group

This subclass/group does not cover:

Arrangement of ship-based outboard ramps or gangways	B63B 27/14
Loading ramps in general	B65G 69/28

Informative references

Attention is drawn to the following places, which may be of interest for search:

Floating bodies or pontoons	B63B
Inflatable or unreelable girders; folding or telescopic girders	E04C 3/005

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

Definition statement

This subclass/group covers:

Constructional details not necessarily related to types of bridges.

References relevant to classification in this group

This subclass/group does not cover:

Road joints	E01C 11/04 - E01C 11/10
Protection of piers against colliding vehicles	E01F 15/00
Foundations	E02D
Sealing joints not restricted to joints for bridges; expansion joints for buildings in general	E04B 1/68

Informative references

Attention is drawn to the following places, which may be of interest for search:

Guards barriers in general	E01F 15/00
Insulation for buildings in general	E04B 1/62
Sleepers in general	E01B 3/00
Flooring in general	E04B 5/00
Roof drainage	E04D 13/04

E01D 21/00

Methods or apparatus specially adapted for erecting or assembling bridges

Definition statement

This subclass/group covers:

Methods or apparatus specially adapted for erecting or assembling bridges

References relevant to classification in this group

This subclass/group does not cover:

Assembling, placing or erecting temporary bridges	E01D 15/127 , E01D 15/133
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E01D 22/00

Methods or apparatus for repairing or strengthening existing bridges [N: (electrochemical desalination or re-alkalisation C04B41/00)]; Methods or apparatus for dismantling bridges]

Definition statement

This subclass/group covers:

Repairing, strengthening or dismantling bridges.

References relevant to classification in this group

This subclass/group does not cover:

Electrochemical desalination or re-alkalisation	C04B 41/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Repairing buildings in general	E04G 23/00
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