

ECLA EUROPEAN CLASSIFICATION

B63C LAUNCHING, HAULING-OUT, OR DRY-DOCKING OF VESSELS; LIFE-SAVING IN WATER; EQUIPMENT FOR DWELLING OR WORKING UNDER WATER; MEANS FOR SALVAGING OR SEARCHING FOR UNDERWATER OBJECTS (floating nets, floating slipways, or the like for recovering aircraft from the water B63B 35/52) [C1005]

[N: **Note** [M1207]

In this subclass, the indexing codes [L63B201/00](#) to [L63B241/00](#) are to be used for relevant technical information concerning particular or unusual use, materials, design, methods or means.

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B63C1/00 Dry-docking of vessels or flying-boats (storing of vessels on land otherwise than by dry-docking [B63C15/00](#); mooring of vessels [B63B21/00](#); hydraulic-engineering aspects E02B) [C1005]

B63C1/02 . Floating docks ([N: externally attached cofferdams and the like [B63B17/00C](#)]; ship transporters with adjustable draught [B63B35/42](#)) [C1005]

B63C1/04 . . self docking

B63C1/06 . . Arrangements of pumping or filling equipment for raising or lowering docks

B63C1/08 . Graving docks (locks [E02C1/00](#))

B63C1/10 . Centring devices

B63C1/12 . Docks adapted for special vessels, e.g. submarines

B63C3/00 Launching or hauling-out by land-borne slipways; Slipways (ship-borne guides for handling lifeboats or the like [B63B23/30](#); cranes winches, or the like B66; ship lifting for adapting to different water levels E02C)

B63C3/02 . by longitudinal movement of vessel

B63C3/04 . by sideways movement of vessel

B63C3/06 . by vertical movement of vessel, i.e. by crane

B63C3/08 . Tracks on slipways

B63C3/10 . using releasing devices

B63C3/12 . using cradles (vehicles in general for transporting boats or the like [B60P](#))

B63C3/14 . using braking means

B63C5/00 Equipment usable both on slipways and in dry docks

- B63C5/02 . Stagings; Scaffolding; Shores or struts
- B63C5/04 . . Bilge or keel blocks

- B63C7/00** **Salvaging of disabled, stranded, or sunken vessels; Salvaging of vessel parts or furnishings, e.g. of safes; salvaging of other underwater objects (means for searching for underwater objects [B63C11/48](#))**
 - [N: **WARNING** [M1207]
this group is pending a reorganisation; also documents covered by groups [B63C7/00E](#) are within this group
]
 - [N: **Note**
- in this group the following indexing codes are used:
[L63B702/02](#), [L63B738/00](#), [L63B738/04](#)
]

- B63C7/00B . [N: Righting capsized vessels, e.g. sailing vessels (self-righting life boats, life rafts or the like [B63C9/02](#))] [C0202]

- B63C7/00E . [N: Emptying the contents of sunken, stranded, or disabled vessels, e.g. by engaging the vessel, or collecting underwater buoyant, e.g. liquid or particulate, or gaseous contents escaping from sunken vessels, e.g. using funnels, or tents for recovery of escaping hydrocarbons (Cleaning or keeping clear the surface of open water in general [E02B15/00](#))]
 - [N: **WARNING** [M1207]
[B63C7/00E](#) is not complete pending a reclassification; see also groups [B63C7/00](#) and [B63C7/16](#)
]

- B63C7/02 . in which the lifting is done by hauling
- B63C7/04 . . using pontoons or the like

- B63C7/06 . in which lifting action is generated in or adjacent to vessels or objects
- B63C7/08 . . using rigid floats
- B63C7/10 . . using inflatable floats external to vessels or objects
- B63C7/12 . . by bringing air or floating bodies or material into vessels or objects

- B63C7/14 . using freezing for closing holes or for strengthening the vessel or the like

- B63C7/16 . Apparatus engaging vessels or objects [N: ([B63C7/00E](#) takes precedence)] [M1207]
- B63C7/18 . . Using nets
- B63C7/20 . . using grabs [N: (cable grapnels with grabs [B63C11/50](#))] [C9906]
- B63C7/22 . . using electromagnets or suction devices

- B63C7/24 . Apparatus for passing chains or the like under vessels or objects

- B63C7/26 . Means for indicating the location of underwater objects, e.g. sunken vessels (means for searching for underwater objects [B63C11/48](#); buoys in general [B63B22/00](#))

- B63C7/28 . Refloating stranded vessels

- B63C7/30 . Floatable safes (safes in general [E05G](#))
- B63C9/00** **Life-saving in water** (life-saving in general [A62B](#); arrangement or adaptation of signalling or lighting devices for ships, other waterborne vessels or for equipment for shipping [B63B45/00](#); rescue equipment specially adapted for submarine personnel [B63G8/40](#)) [**M1109**]
- [N: **WARNING** [M1207]
this group is pending a reorganisation; also documents covered by group [B63C9/06A](#) are within this group
]
- [N: **Note**
- in this group the following indexing code is used: [L63B729/00](#)
]
- B63C9/00B . [N: by means of alarm devices for persons falling into the water, e.g. by signalling, by controlling the propulsion or manoeuvring means of the boat (**Alarms responsive to presence of persons in a body of water in general [G08B21/08](#)**)] [M1208]
- B63C9/00B1 . . [N: enabling persons in the water to control the propulsion or manoeuvring means of the boat] [N9511]
- B63C9/01 . Air-sea rescue devices, i.e. equipment carried by, and capable of being dropped from, an aircraft ([inflatable vessels B63B7/00](#) ; [inflatable buoys B63B22/22](#)) [N1202]
- [N: **WARNING**
[N1202]This group is not complete pending a reclassification; for documents published before 01.01.2012, see also group [B63C9/00](#)
]
- B63C9/02 . Lifeboats, life-rafts or the like, specially adapted for life-saving ([floatable furniture B63C9/30](#); boats in general [B63B](#) ; [inflatable vessels B63B7/00](#); equipment for handling lifeboats or the like [B63B23/00](#); rafts [B63B35/58](#)) [M1109]
- [N: **WARNING** [M1207]
this group is pending a reorganisation; also documents covered by group [B63C9/06A](#) are within this group
]
- [N: **Note**
- in this group the following indexing code is used: [L63B728/00](#)
]
- B63C9/03 . . enclosed [N1202]
- [N: **WARNING**
[N1202]This group is not complete pending a reclassification; for documents published before 01.01.2012, see also group [B63C9/02](#)
]
- B63C9/04 . . Life-rafts
- [N: **WARNING** [M1207]
this group is pending a reorganisation; also documents covered by group [B63C9/06A](#) are within this group
]

- B63C9/05 . . Shark screens, e.g. buoyant means combined with means to surround or otherwise enclose the user ([B63C9/06](#) takes precedence) [N1202]
- [N: **WARNING**
[N1202]This group is not complete pending a reclassification; for documents published before 01.01.2012 see also group [B63C9/00](#)
]
- B63C9/06 . Floatable closed containers with accommodation for one or more persons inside ([B63C9/01](#) takes precedence) [C1202]
- [N: **WARNING** [M1207]
this group is pending a reorganisation; also documents covered by group [B63C9/06A](#) are within this group
]
- B63C9/06A . . [N: for one person] [N9903]
- [N: **WARNING** [M1207]
[B63C9/06A](#) is not complete pending a reorganisation; see also groups [B63C9/00](#), [B63C9/02](#), [B63C9/04](#) and [B63C9/06](#)
]
- B63C9/08 . Life-buoys, e.g. rings; Life-belts, jackets, suits, or the like ([N: non-sinkable swimsuits, drawers or trunks [A41D7/00B](#)]; equipment for swimming [A63B](#), e.g. swimming aids [N: other than life-buoys or life-belts] [A63B31/00](#), [N: teaching frames for swimming, swimming boards [A63B69/14](#)]) [C9809]
- B63C9/08A . . [N: having compartments comprising elements which are filled with gas by deployment, e.g. sponge-like elements] [N9601]
- B63C9/08B . . [N: Annular or U-shaped life-buoys intended to be thrown to persons] [N9601]
- B63C9/087 . . Body suits, i.e. substantially covering the user's body [N: Immersion suits, i.e. substantially completely covering the user] ([N: Professional, industrial, or sporting protective garments [A41D13/00](#) for aquatic activities e.g. with buoyancy aids [A41D13/012](#)] diving suits [B63C11/04](#), [B63C11/10](#) [N: [B63C9/08A](#) takes precedence]) [N9601] [M1208]
- B63C9/093 . . . using solid buoyant material [N9601]
- B63C9/105 . . . having gas-filled compartments (connection of valves to inflatable elastic bodies [B60C29/00](#)) [N9601]
- B63C9/105A [N: inflatable] [N9601]
- B63C9/11 . . covering the torso, e.g. harnesses [N: [B63C9/08A](#) takes precedence] [N9601]
- B63C9/115 . . . using solid buoyant material [N9601]
- B63C9/125 . . . having gas-filled compartments (connection of valves to inflatable elastic bodies [B60C29/00](#)) [N9601]
- B63C9/125A [N: inflatable] [N9601]
- B63C9/13 . . attachable to body member, e.g. arm, neck, head or waist ([N: [B63C9/08A](#) takes precedence]) [N9601]
- B63C9/135 . . . using solid buoyant material [N9601]
- B63C9/15 . . . having gas-filled compartments (connection of valves to inflatable elastic bodies [B60C29/00](#)) [N9601]
- B63C9/15A [N: inflatable] [N9601]
- B63C9/18 . . Inflatable equipment characterised by the gas-generating [N: or inflation] device [C9601]
- [N: **WARNING** [M1207]

- This group is not complete pending a reorganisation; see also group [B63C9/24](#); this group is pending a reorganisation; also documents covered by group [B63C9/19](#) are within this group]
]
- [B63C9/19](#) . . . Arrangements for puncturing gas-generating cartridges [N1202]

[N: **WARNING** [M1207]
This group is not complete pending a reorganisation; see also groups [B63C9/18](#) and [B63C9/24](#)
]
- [B63C9/20](#) . . characterised by signalling means, e.g. lights (arrangement or adaptation of signalling or lighting devices for ships or other waterborne vessels [B63B45/00](#)) [M1109]

[N: **WARNING** [N1109]
Not complete, pending a reorganisation; see [B63C9/21](#)
]
- [B63C9/21](#) . [N: **IPC3**] Boats, rafts, buoys or the like, characterised by signalling means, e.g. lights, reflectors ([B63C9/08](#) takes precedence) [M1109]

[N: **WARNING** [N1109]
Group [B63C9/21](#) is no longer used for classification. Documents are in the process of being reorganised to [B63B45/00](#) and subgroups, and to [B63C9/20](#)
]
- [B63C9/22](#) . Devices for holding or launching life-buoys, inflatable life-rafts, or other floatable life-saving equipment (equipment for handling life-boats or the like [B63B23/00](#))

[N: **WARNING** [M1207]
This group is pending a reorganisation; also documents covered by group [B63C9/23](#) are within this group
]
- [B63C9/23](#) . . Containers for inflatable life-saving equipment [N1202]

[N: **WARNING**
[N1202] This group is not complete pending a reclassification; for documents published before 01.01.2012 see also group [B63C9/22](#)
]
- [B63C9/24](#) . [N: **IPC4**] Arrangements of inflating valves or of controls thereof (connecting inflating valves to elastic bodies [B60C29/00](#))

[N: **WARNING** [M1207]
this group is pending a reorganisation; also documents covered by group [B63C9/18](#), and subgroups are within this group
]
- [B63C9/26](#) . Cast or life lines; Attachments thereto; Containers therefor; [N: **Rescue nets or the like**] (adaptations of aerial cableways to shipboard use [B63B27/18](#); guns for line throwing F41F; line-carrying missiles [F42B12/68](#)) [M1109]
- [B63C9/28](#) . Adaptations of vessel parts or furnishings to life-saving purposes
- [B63C9/30](#) . . Floatable furniture

- B63C9/32 . Equipment adapted to use on ice

- B63C11/00** **Equipment for dwelling or working underwater; Means for searching for underwater objects** (composition of chemical substances for use in breathing apparatus [A62D9/00](#); swimming aids or equipment [A63B31/00](#) to [A63B35/00](#); submarines [B63G8/00](#))

- B63C11/02 . Divers` equipment
- B63C11/04 . . Resilient suits
- B63C11/06 . . . with rigid helmet
- B63C11/08 . . . Control of air pressure within suit, e.g. for controlling buoyancy; [N: Buoyancy compensator vests, or the like] [C1207]
- B63C11/10 . . Rigid suits
- B63C11/12 . . Diving masks [N: (swimming helmets, swimming goggles [A63B33/00](#))] [C9911] [M1207]
- B63C11/14 . . . with forced air supply
- B63C11/16 . . . with air supply by suction from diver, e.g. snorkels
- B63C11/18 . . Air supply (for diving masks [B63C11/14](#), [B63C11/16](#); respiratory apparatus in general [A62B](#))
- B63C11/18G . . . [N: Artificial gills]
- B63C11/18M . . . [N: Mouthpieces]
- B63C11/20 . . . from water surface
- B63C11/20F [N: with forced air supply ([B63C11/14](#) takes precedence)] [N0009]
- B63C11/20S [N: with air supply by suction from diver, e.g. snorkels ([B63C11/16](#) takes precedence)] [N0009]
- B63C11/20S1 [N: with hoses connected to a float] [N0207]
- B63C11/22 . . . carried by diver
- B63C11/22A [N: First-stage regulators ([B63C11/22D](#) takes precedence)] [N9506]
- B63C11/22B [N: Second-stage regulators ([B63C11/22D](#) takes precedence)] [N9506]
- B63C11/22C [N: Functionally interdependent first/second-stage regulators ([B63C11/22D](#) takes precedence)] [N9506]
- B63C11/22D [N: With provisions for connection to a buoyancy compensator] [N9506]
- B63C11/24 in closed circulation
- B63C11/26 . . Communication means, [N: e.g. means for signalling the presence of divers] (electric communication in general H04) [C1003]
- B63C11/28 . . Heating, e.g. of divers' suits, of breathing air [M1109]
- B63C11/30 . . Ballast [N: (weights worn on user`s body for exercising [A63B21/065](#))]
- B63C11/32 . . Decompression arrangements; Exercise equipment
- B63C11/32C . . . [N: chambers used for it]

- B63C11/34 . Diving chambers [N: or underwater vessels, e.g. unmanned,] with mechanical link, e.g. cable, to a base (manipulators B25J; [N: externally attached cofferdams and the like [B63B17/00C](#);] diving chambers without mechanical link to a base [B63G8/00](#); caissons adapted to laying foundations [E02D23/00](#) to [E02D27/00](#)) [M1109]
- B63C11/36 . . of closed type
- B63C11/38 . . . with entrance above water surface

- B63C11/40 . . . adapted to specific work
- B63C11/42 . . . with independent propulsion or direction control [N: (underwater vessels adapted for special purposes [B63G8/00B](#))] [C1109] [M1207]
- [N: **WARNING** [M1207]
this group is pending a reorganisation; also documents covered by group [B63G8/00B](#) are within this group
]
- B63C11/44 . . . of open type, e.g. diving-bells
- B63C11/46 . Divers` sleds or like craft, i.e. craft on which man in diving-suit rides [N: (devices fixed to the body of a swimmer, e.g. diver, or held in his hands, and propelling the swimmer by muscle power or by a motor [A63B35/00](#))]
- B63C11/48 . Means for searching for underwater objects (means for indicating the location of sunken objects [B63C7/26](#); locating by use of the reflection or reradiation of radio or other waves G01S; [N: mountings of acoustic transducers in underwater equipment [G10K11/00G2](#)]) [M1109]
- B63C11/49 . . . Floating structures with underwater viewing devices, e.g. with windows; [N: Arrangements on floating structures of underwater viewing devices, e.g. on boats (arrangement of visual equipment on submarines [B63G8/38](#))] [N1202]
- B63C11/50 . . . using grapnels
- B63C11/52 . Tools specially adapted for working underwater, not otherwise provided for
- B63C13/00** **Equipment forming part of or attachable to vessels facilitating transport over land** (amphibious craft, land vehicles convertible for use on water [B60F](#); land vehicles for carrying boats [B60P](#); [N: hand carts for transporting boats [B62B](#);] harnesses attachable to vessels for personal carrying [A45F](#)) [C0302]
- B63C15/00** **Storing of vessels on land otherwise than by dry-docking**