

ECLA EUROPEAN CLASSIFICATION

B63B SHIPS OR OTHER WATERBORNE VESSELS; EQUIPMENT FOR SHIPPING ([N: amphibious vehicles [B60F3/00](#)]; air-cushion vehicles [B60V](#); arrangements of vessel ventilation, heating, cooling or air conditioning [B63J2/00](#)) [C0407]

[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.

]

B63B1/00 Hydrodynamic or hydrostatic features of hulls or of hydrofoils (keels [B63B3/38](#); determining hydrodynamic or hydrostatic features [B63B9/00](#); hulls peculiar to submarines [B63B3/13](#); decreasing pitch, roll or like unwanted vessel movements by using foils or acting on ambient water [B63B39/06](#))

- B63B1/02 . deriving lift mainly from water displacement ([B63B1/16](#) takes precedence)
 - B63B1/04 . . with single hull
 - B63B1/04B . . . [N: with disk-shaped hull]
 - B63B1/04C . . . [N: the underpart of which being partly provided with channels or the like, e.g. catamaran shaped]
 - B63B1/04S . . . [N: with spherical hull or hull in the shape of a vertical ring (**Freely movable rolling hoops, e.g. gyro wheels for exercising** [A63B19/02](#))]
 - B63B1/04V . . . [N: with hull extending principally vertically]
 - B63B1/06 . . . Shape of fore part
 - B63B1/06B [N: Bulbous bows]
 - B63B1/08 . . . Shape of after part
 - B63B1/10 . . with multiple hulls
 - B63B1/10B . . . [N: comprising a cockpit surrounded and pivotally supported by at least three floats]
 - B63B1/10C . . . [N: Semi-submersibles; Small waterline area multiple hull vessels and the like, e.g. SWATH] [C1207]
- [N: **WARNING**
[N1207] Not complete, see [B63B1/12](#) and subgroups
]
- B63B1/12 . . . the hulls being interconnected rigidly [N: ([B63B1/10C](#) takes precedence)]
 - B63B1/12B [N: comprising two hulls ([B63B1/10C](#) takes precedence)] [C1207]
 - B63B1/12M [N: comprising more than two hulls ([B63B1/10C](#) takes precedence)] [C1207]
 - B63B1/14 . . . the hulls being interconnected resiliently [N: or having means for actively varying hull shape or configuration (**collapsible, foldable, inflatable or like vessels** [B63B7/00](#))] [C1207]
- [N: **WARNING**
[N1207] Not complete, pending a reorganisation, see [B63B1/12](#) and subgroups
]
- B63B1/16 . deriving additional lift from hydrodynamic forces

- B63B1/18 . . . of hydroplane type [M1108]
- B63B1/20 . . . having more than one planing surface ([B63B1/22](#) takes precedence)
 - [N: **WARNING**
Not complete, pending a reorganisation, see [B63B1/04C](#) [N1207]
]
- B63B1/22 . . . with adjustable planing surfaces
- B63B1/24 . . . of hydrofoil type [N: (controlling attitude or depth of underwater vessels by hydrofoils or the like [B63G8/18](#))] [M1108]
 - [N: **WARNING**
[N1207] This group is pending a reorganisation, also documents covered by group [B63B1/26](#) are within this group
]
- B63B1/24B . . . [N: Mounting, suspension of the foils ([B63B1/30](#) takes precedence)]
- B63B1/24C . . . [N: Safety systems, e.g. when striking an object]
- B63B1/24D . . . [N: Arrangements of propulsion elements (propulsion elements in general [B63H5/00](#), propulsion by jets in general [B63H11/00](#))] [C1207]
- B63B1/24E . . . [N: Shape, hydrodynamic features, construction of the foil]
- B63B1/26 . . . having more than one hydrofoil ([B63B1/28](#) takes precedence)[N1204]
 - [N: **WARNING**
[N1208]Not complete, pending a reorganisation, see [B63B1/24](#) and subgroups
]
- B63B1/28 . . . with movable hydrofoils
- B63B1/28B [N: movable around a vertical axis, e.g. for steering]
- B63B1/28C [N: changing the angle of attack or the lift of the foil]
- B63B1/28C2 [N: using flaps]
- B63B1/28C4 [N: using gas exhaust through the foil]
- B63B1/30 retracting or folding [N: [B63B1/24C](#) takes precedence]
- B63B1/32 . Other means for varying the inherent hydrodynamic characteristics of hulls
- B63B1/32B . . [N: using aerodynamic elements, e.g. aerofoils producing a lifting force (flying boats [B64C35/00](#))]
- B63B1/34 . . by reducing surface friction
- B63B1/36 . . . using mechanical means
- B63B1/38 . . . using air bubbles or air layers [N: gas filled volumes (waterborne vessels travelling on air cushions [B60V3/06](#))] [C0012]
- B63B1/40 . . by diminishing wave resistance
- B63B3/00** **Constructions of hulls** (non-metallic hulls [B63B5/00](#); designing, building, maintaining or repairing methods [B63B9/00](#))
- B63B3/02 . Hulls assembled from prefabricated sub-units
- B63B3/04 . . with permanently-connected sub-units
- B63B3/06 . . . the sub-units being substantially identical
- B63B3/08 . . with detachably-connected sub-units
- B63B3/09 . Hulls constructed of non-magnetic metal

- B63B3/10 . Armoured hulls
- B63B3/12 . Frameless hulls
- B63B3/13 . Hulls built to withstand hydrostatic pressure when fully submerged, e.g. submarine hulls
- B63B3/14 . Hull parts ([hull armour B63B3/10](#))
- B63B3/14B . . [\[N: Connections between the shell and deck\]](#)
- B63B3/16 . . Shells ([ports or closures therefor B63B19/00](#))
- B63B3/18 . . . characterised by being formed predominantly of parts that may be developed into plane surfaces
- B63B3/18A [\[N: comprising only flat panels\]](#)
- B63B3/20 . . . of double type
- B63B3/22 . . . with corrugations
- B63B3/24 . . . Means for diminishing external ridges of protrusions
- B63B3/26 . . Frames
- B63B3/28 . . . of transverse type; Stringers
- B63B3/30 Bilge knees; Beam knees
- B63B3/32 . . . Web frames; Web beams
- B63B3/34 . . . of longitudinal type; Bulkhead connections
- B63B3/36 . . . Combined frame systems
- B63B3/38 . . Keels ([movable keels B63B41/00](#))
- B63B3/40 . . Stern posts; Stern frames
- B63B3/42 . . Shaft brackets
- B63B3/44 . . Bilge keels ([stabilising aspect B63B39/06](#))
- B63B3/46 . . Stems
- B63B3/48 . . Decks ([planking B63B5/06](#))
- B63B3/50 . . . of vaulted type
- B63B3/52 . . . Pillars; Deck girders
- B63B3/54 . . . Hatch openings
- B63B3/56 . . Bulkheads; Bulkhead reinforcements ([arrangements of water-tight doors B63B43/24](#))
- B63B3/58 . . . with flat plating
- B63B3/60 . . . with curved or corrugated plating
- B63B3/62 . . Double bottom; Tank tops
- B63B3/64 . . . Keelsons
- B63B3/66 . . Gratings
- B63B3/68 . . Panelling; Lining, e.g. for insulating purposes
- B63B3/70 . . Reinforcements for carrying localised loads, e.g. propulsion plant, guns
- B63B5/00** **Hulls characterised by their construction of non-metallic material**
- B63B5/02 . made predominantly of wood

- B63B5/04 . . Carcasses
- B63B5/06 . . Decks; Shells
- B63B5/06B . . . [N: caulking decks (mortise chisels for wood [B25D3/00](#))]
- B63B5/08 . . . with single-layer planking
- B63B5/10 . . . with multiple-layer planking

- B63B5/12 . made predominantly of wood with metal reinforcement, i.e. composite construction

- B63B5/14 . made predominantly of concrete, e.g. reinforced
- B63B5/16 . . monolithic
- B63B5/18 . . built-up from elements
- B63B5/20 . . . in combination with elements of other materials
- B63B5/22 . . with reinforcing members external to shell

- B63B5/24 . made predominantly of plastics [N: (surf boards [B63B35/79C1](#))] [C9501]

- B63B7/00 Collapsible, foldable, inflatable or like vessels (foldable pontoons [B63B35/36](#))**

- B63B7/02 . comprising only rigid parts
- B63B7/04 . . sectionalised

- B63B7/06 . having parts of non-rigid material
- B63B7/08 . . inflatable
- B63B7/08B . . . [N: having parts of rigid material]
- B63B7/08C . . . [N: Accessories or mountings specially adapted therefor, e.g. seats, sailing kits, motor mountings]
- B63B7/08C1 [N: Motor mountings, e.g. transom panels for outboard motors] [N9812]

- B63B9/00 Methods of designing, building, maintaining, converting, refitting, repairing, or determining properties of vessels, not otherwise provided for (shuttering for building concrete vessels E04G) [C0805]**

- B63B9/00C . [N: Methods of designing, or determining properties of vessels by means of analytical modelling, e.g. computational] [N0003]

- [N: **WARNING**
[N1207]Not complete pending a reorganisation, see [B63B9/00](#) and [G06F17/50](#)
]
- B63B9/00C1 . . [N: using fluid dynamics analysis, e.g. computational fluid dynamics] [N0003]

- [N: **WARNING**
[N1207] Not complete pending a reorganisation, see [B63B9/00](#) and [G06F17/50](#)
]
- B63B9/00C3 . . [N: using structure analysis, e.g. finite elements] [N0003]

- [N: **WARNING**
[N1207]Not complete pending a reorganisation, see [B63B9/00](#) and [G06F17/50C2](#)
]

- B63B9/02 . Using towing tanks or model basins for designing [N: (arrangements in or on ship testing tanks or water tunnels [G01M10/00](#))] [C0003]
- B63B9/04 . Rebuilding ships, e.g. increasing tonnage
- B63B9/06 . Methods of building hulls
- B63B9/06B . . [N: by folding (foldable vessels [B63B7/00](#))]
- B63B9/06C . . [N: for floating offshore platforms (grounded platforms [E02B17/00](#))] [N9908]
- [N: **WARNING**
Not complete, see [B63B21/50](#), [B63B35/00L](#), [B63B35/44](#)
]
- B63B9/08 . Determining vessel properties with respect to stability or balance
- B63B11/00 Interior subdivision of hulls** (bulkhead space construction [B63B3/56](#))
- B63B11/02 . Arrangement of bulkheads, e.g. defining cargo spaces
- B63B11/04 . Constructional features of bunkers, [N: e.g. structural fuel tanks,] or ballast tanks, e.g. with elastic walls ([N: tanks for fuel or the like not forming subdivisions of the hull [B63B17/00F](#);] cleaning of tanks [B63B57/00](#)) [C1008]
- [N: **WARNING** [N1008]
Not complete pending reclassification; see also [B63B25/08](#) and subgroups
]
- B63B11/06 . Propeller-shaft tunnels
- B63B13/00 Conduits for emptying or ballasting; Self-bailing equipment; Scuppers** (draining means for hatches [B63B19/26](#); centrifugal bilge-water separators B04; [N: arrangements of installations for treating ballast water [B63J4/00B](#);] pipes in general F16L) [C1002]
- B63B13/02 . Ports for passing water through vessels` sides [N: (jet propulsors with clogging prevention means [B63H11/01](#))] [C9903]
- B63B15/00 Superstructures** [N: ,deckhouses, wheelhouses or the like]; Arrangements or adaptations of masts [N: or spars, e.g. bowsprits] (loading or unloading equipment [B63B27/00](#); masts and staying in general E04H; sails, running rigging B63H; [N: mounting ladders or the like on masts [B63B29/20M](#))] [C0703]
- B63B15/00M . [N: Masts for sailing ships or boats] [M1207]
- B63B15/02 . Staying of masts or of other superstructures
- B63B17/00 Vessel parts, details, or accessories, not otherwise provided for** [N: (vehicle fittings for preventing or indicating unauthorised use or theft of vehicles in general [B60R25/00](#); propeller guards, line cutters or other means for protecting propellers or rudders [B63H5/16G](#); protection of power legs of outboard propulsion units [B63H20/36](#); locking devices for boats, surfboards or parts or accessories thereof [E05B73/00C](#))] [C1207]

[N: **WARNING**

[N1207] Not complete pending a reorganisation; for documents concerning protective caps, or anti-theft devices other than using keys, see [B63J99/00](#)
]

- B63B17/00C**
- [N: Arrangements or devices specially adapted for facilitating access to underwater elements, e.g. to propellers (**retractable propellers [B63H5/125](#); tilting outboard propulsion units [B63H20/08](#)**); Externally attached cofferdams or the like (**caissons adapted to laying foundations [E02D23/00](#) to [E02D27/00](#)**)] [N9710] [C1005]
- [N: **WARNING** [N1005]
Documents concerning "externally attached cofferdams or the like" are not complete, pending a reorganisation; see also [B63B9/00](#)
]
- B63B17/00F**
- [N: Tanks for fuel or the like (**constructional features of bunkers [B63B11/04](#)**); Accessories therefor, e.g. tank filler caps (**fuel tanks for vehicles in general [B60K15/03](#); cargo tanks [B63B25/08](#); cleaning of tanks [B63B57/00](#); handling of liquids for use in power plants [B63H21/38](#)**)] [N1008]
- [N: **WARNING** [N1008]
Not complete pending reclassification; see also [B63B25/08](#) and subgroups
]
- B63B17/00F2**
- [N: Arrangements for minimizing pollution by accidents (**associated with cargo tanks [B63B25/08L](#)**)] [N1008]
- B63B17/00V**
- [N: Vibration isolation or damping elements or arrangements, e.g. elastic support of deck-houses (**mounting of propulsion plant or unit [B63H21/30](#); vibration dampers, suppression of vibration in systems [F16F](#)**)] [N9802]
- B63B17/02**
- Awnings [N: ,including rigid weather protection structures, e.g. sunroofs; Tarpaulins; Accessories for awnings or tarpaulins] [C0303]
- B63B17/02B**
- [N: Hatchway tents, e.g. for weather protection of cargo during loading or unloading] [N9807]
- B63B17/04**
- Stanchions; Guard-rails; [N: Bulwarks or the like] [C1207]
- B63B17/06**
- Refuse discharge, e.g. for ash ([N: arrangements of installations for treating refuse or sludge, e.g. tank washing sludge [B63J4/00](#)]; removal of domestic or like refuse [B65F](#)) [C1002]
- B63B19/00**
- Arrangements or adaptations of ports, doors, windows, port-holes, or other openings or covers** (scuppers [B63B13/00](#); arrangements of watertight doors in bulkheads [B63B43/24](#))
- B63B19/02**
- Clear-view screens; [N: Windshields (**canopies connected to windshields [B63B17/02](#)**)] [C9909]
- B63B19/04**
- Air-catching equipment related to windows or port-holes (**ventilation [B63J2/00](#)**)
- B63B19/06**
- readily detachable
- B63B19/08**
- Ports or like openings in vessels' sides [N: or at the vessels' bow or stern (**forming**

- ramps when open [B63B27/14B](#)] [C1207]**
- B63B19/10 . . Coal ports
 - B63B19/12 . Hatches; Hatchways ([hatch coamings B63B3/54](#))
 - B63B19/14 . . Hatch covers ([opening devices in general E05F](#))
 - B63B19/16 . . . with detachable boards
 - B63B19/18 . . . slidable
 - B63B19/19 . . . foldable
 - B63B19/197 actuated by fluid pressure
 - B63B19/203 actuated by cables or the like
 - B63B19/21 . . . of roll-up type
 - B63B19/22 . . Hatch beams
 - B63B19/24 . . Hatch fastenings, e.g. cleats
 - B63B19/26 . . Gaskets; Draining means
 - B63B19/28 . . Other safety means
- B63B21/00** **Typing-up; Shifting, towing, or pushing equipment; Anchoring** ([N: of buoys [B63B22/04](#)]; [dynamic anchoring B63H25/00](#); equipment for shipping on coasts, in harbours or on other fixed marine structures, e.g. for landing purposes, E02B) [C9911]
- [N: **WARNING**
[N1208]Group [B63H21/00](#) is no longer used for classification of adaptations of ropes, hawsers, or the like, or parts thereof. Documents are in the process of being reorganised to [B63B21/20](#)
]
- B63B21/02 . Magnetic mooring equipment
 - B63B21/04 . Fastening or guiding equipment for chains, ropes, hawsers, or the like [N: (**means for fastening cables or ropes in general F16G11/00**)] [C0104]
 - B63B21/04T . . [N: T-shaped cleats] [N9706]
 - B63B21/06 . . Bollards [C9512]
 - B63B21/08 . . Clamping devices ([in general F16B](#); [N: means for fastening cables or ropes to one another or to other objects in general [F16G11/00](#)]) [C0502]
 - B63B21/10 . . Fairleads
 - B63B21/12 . . Rat guards
 - B63B21/14 . . Hawse-holes; Hawse-pipes; Hawse-hole closures
 - B63B21/16 . Using winches (winches per se B66D)
 - B63B21/18 . Stoppers for anchor chains [N: (**anchor capstans B66D1/72**)] [C9506]
 - B63B21/20 . Adaptations of chains, ropes, hawsers, or the like, or of parts thereof chains, ropes or hawsers in general, see the relevant subclasses, e.g. F16G [N: or D07B)] [M1208]
- [N: **WARNING**
[N1208]Not complete pending a reorganisation, see [B63B21/00](#)
]

- B63B21/22 . Handling or lashing of anchors
- B63B21/22S . . [N: Stowing the anchor inside the vessel by hauling-in through an aperture in the side walls, stern or bottom] [N0209]

- B63B21/24 . Anchors
- B63B21/24F . . [N: foldable or capable of being disassembled]

- [N: **WARNING**
[N1207] this group is pending a reorganisation, also documents covered by group [B63B21/36](#) are within this group
]

- B63B21/26 . . securing to bed
- B63B21/27 . . . by suction
- B63B21/28 . . . driven in by explosive charge
- B63B21/29 . . . by weight, e.g. flukeless weight anchors
- B63B21/30 . . rigid when in use [N: ([B63B21/28](#) takes precedence)] [C0107]
- B63B21/32 . . . with one fluke
- B63B21/34 . . . with two or more flukes
- B63B21/36 foldable [N1204]

- [N: **WARNING**
[N1208]Not complete, pending a reorganisation, see [B63B21/24F](#)
]

- B63B21/38 . . pivoting when in use [N: ([B63B21/28](#) takes precedence)] [C0107]
- B63B21/40 . . . with one fluke
- B63B21/42 of ploughshare type
- B63B21/44 . . . with two or more flukes
- B63B21/46 . . with variable, [N: e.g.] sliding, connection to the chain, [N: especially for facilitating the retrieval of the anchor] [C1109]
- B63B21/48 . . Sea-anchors; Drogues

- B63B21/50 . Anchoring arrangements [N: or methods] for special vessels, e.g. for floating drilling platforms or dredgers [C1207]
- B63B21/50B . . [N: by means of tension legs]
- B63B21/50T . . [N: with mooring turrets] [N9803]

- [N: **WARNING**
[N1207] this group and its subgroup are pending a reorganisation, also documents covered by group [B63B21/34](#) are within this group, and its subgroups
]

- B63B21/50T1 . . . [N: connected to submerged buoy (mooring buoys per se [B63B22/02](#))] [N9803]

- B63B21/54 . Boat-hooks or the like [N:, e.g. hooks detachably mounted to a pole] [C0107]

- B63B21/56 . Towing or pushing equipment (tugs [B63B35/66](#); [N: towing devices for waterskis or watersledges [B63B35/81T](#)]) [C0109]
- B63B21/58 . . Adaptations of hooks for towing; Towing-hook mountings (hooks in general [F16B](#))
- B63B21/60 . . . Quick releases

- B63B21/62 . . characterised by moving of more than one vessel ([rigid interconnections between pontoons B63B35/38](#))
- B63B21/64 . . Equipment for towing or pushing vessels by vehicles or beings moving forward on ground-based paths along water way ([boat-hooks or the like B63B21/54](#); [shore- or ground-based equipment per se, e.g. vehicles, rails, see the relevant classes](#))
- B63B21/66 . . Equipment specially adapted for towing underwater objects or vessels, e.g. fairings for tow-cables ([N: [paravanes for dragging fishing nets A01K73/02](#)]; [salvaging underwater vessels or objects B63C7/00](#); [towed underwater vessels B63G8/42](#))
- B63B21/66B . . . [N: Fairings]

- B63B22/00** **Buoys** (means for indicating the location of underwater objects [B63C7/26](#); life-buoys, e.g. rings [B63C9/08](#); [N: mountings of acoustic transducer in underwater equipment, e.g. sonobuoys [G10K11/00G2](#); electric cables supported on or from floats [H02G9/12](#)] [\[N0206\]](#) [\[M1109\]](#))

- B63B22/00L . [N: adapted for being launched from an aircraft or water vehicle;, e.g. with brakes deployed in the water] [\[C1207\]](#)

- B63B22/02 . specially adapted for mooring a vessel
- B63B22/02B . . [N: and for transferring fluids, e.g. liquids (container type buoys having means to selectively release contents, not adapted for mooring a vessel [B63B22/26](#))] [\[C1109\]](#)

- [N: **WARNING** [\[C1207\]](#)
1. Documents concerning container type buoys having means to selectively release contents and not being adapted for mooring a vessel are in the process of being reorganised to [B63B22/26](#). 2. This group and its subgroups are pending a reorganisation, also documents covered by groups [B63B27/30](#) and [B63B27/34](#) are within this group and its subgroups.
]
- B63B22/02B2 . . . [N: submerged when not in use (container type buoys submerged when not in use, not adapted for mooring a vessel [B63B22/28](#); connected to turret [B63B21/50T1](#))] [\[C1109\]](#)

- [N: **WARNING** [\[N1109\]](#)
Documents concerning container type buoys submerged when not in use and not being adapted for mooring a vessel are in the process of being reorganised to [B63B22/28](#)
]
- B63B22/02B4 . . . [N: and comprising a restoring force in the mooring connection provided by means of weight, float or spring devices]
- B63B22/02B6 . . . [N: and with means to rotate the vessel around the anchored buoy (turrets [B63B21/50T](#))] [\[C9803\]](#)

- B63B22/04 . [N: Fixations or other] anchoring arrangements
- B63B22/06 . . with means to cause the buoy to surface in response to a transmitted signal [N: ([B63B22/02B2](#) takes precedence)]
- B63B22/08 . . having means to release or urge to the surface a buoy on submergence thereof, e.g. to mark location of a sunken object
- B63B22/10 . . . Water soluble or water weakened means, i.e. buoy released by buoy-to-object securing means being destroyed on contact with water
- B63B22/12 . . . the surfacing of the buoy being assisted by a gas released or generated on submergence of the buoy

- B63B22/14 . . . Buoy-to-object securing means responsive to hydrostatic pressure
- B63B22/16 . specially adapted for marking a navigational route ([signalling or lighting devices B63B45/00](#))
- B63B22/16B . . [N: comprising a bell or other audible signal]
- B63B22/16L . . [N: comprising a light]
- B63B22/18 . having means to control attitude or position, e.g. reaction surfaces or tether
- B63B22/20 . . Ballast means
- B63B22/22 . Inflatable buoys with gas generating means (B63B 22/12 takes precedence) [M1109] [M1208]
- B63B22/24 . container type, i.e. having provision for the storage of material
- B63B22/26 . . having means to selectively release contents, e.g. swivel couplings ([N: [B63B22/02B](#) takes precedence;] arrangements between ships and off-shore structures for loading or unloading, using pipe lines [B63B27/34](#); pipe joints or couplings, in general F16L) [N1109]
- [N: **WARNING** [N1109]
Not complete, pending a reorganisation; see [B63B22/02B](#) and [B63B22/24](#)]
- B63B22/28 . . submerged when not in use [N: ([B63B22/02B2](#) takes precedence)] [N1109]
- [N: **WARNING** [N1109]
Not complete, pending a reorganisation; see [B63B22/02B2](#) and [B63B22/24](#)]

B63B23/00 Equipment for handling lifeboats or the like

- B63B23/02 . Davits, i.e. devices having arms for lowering boat by cables or the like
- B63B23/04 . . with arms pivoting on substantially horizontal axes, e.g. gravity type
- B63B23/06 . . . with actual pivots
- B63B23/08 the arms being articulated
- B63B23/10 with positive drive of the arms
- B63B23/12 . . . with simulated pivots
- B63B23/14 using linkages
- B63B23/16 using guide tracks
- B63B23/18 . . with arms pivoting on substantially vertical axes
- B63B23/20 . . . Davits with single arms ([cranes in general B66C](#))
- B63B23/22 Slings or the like therefor
- B63B23/24 . . . Slewing equipment therefor
- B63B23/26 . . with rectilinear translation of boat before lowering
- B63B23/28 . Devices for projecting or releasing boats for free fall
- B63B23/30 . Devices for guiding boats to water surface
- B63B23/32 . . Rigid guides, e.g. having arms pivoted near waterline

- B63B23/34 . . Guiding means for lowering by cables, e.g. for listing ships
 - B63B23/36 . . . Skid fenders
 - B63B23/38 . Transport of boats to davits or the like
 - B63B23/40 . Use of lowering or hoisting gear
 - B63B23/42 . . with braking equipment
 - B63B23/44 . . . on the ship
 - B63B23/46 . . . in the boat
 - B63B23/48 . . Using winches for boat handling ([winches per se B66D](#))
 - B63B23/50 . . . with tensioning gear
 - B63B23/52 . . . with control of winches from boat
 - B63B23/54 . . with trimming equipment
 - B63B23/56 . . . controlled from boat
 - B63B23/58 . . with tackle engaging or release gear
- [N: **WARNING**
[N1207] this group is pending a reorganisation, also documents covered by group [B63B23/70](#) are within this group
]
- B63B23/60 . . Additional connections between boat and davits
 - B63B23/62 . Fastening or storing of boats on deck
 - B63B23/64 . . Lashings; Covers
 - B63B23/66 . . Blocks; Chocks
 - B63B23/68 . . . for stacking boats
 - B63B23/70 . Condition-responsive handling equipment, e.g. automatic release of boat from lowering tackle upon contact with water [N1204]
- [N: **WARNING**
[N1208]Not complete, pending a reorganisation, see [B63B23/58](#)
]
- B63B25/00** **Load-accomodating arrangements, e.g. stowing, trimming; Vessels characterised thereby** (trimming otherwise than by cargo division, e.g. by use of ballast [B63B43/06](#), [B63B43/08](#); constructive aspects of cargo spaces [B63B11/00](#); hatches, hatchways [B63B19/12](#))
- B63B25/00B . [N: for goods other than bulk goods (detachable decks [B63B25/18](#); palletised articles [B63B25/22](#); frozen goods [B63B25/26](#); deck loads [B63B25/28](#))] [C0012]
 - B63B25/00B2 . . [N: for containers ([B63B25/28](#) takes precedence)]
 - B63B25/00B3 . . [N: for floating containers, barges or other floating cargo (for transporting marine vessels [B63B35/40](#))]
 - B63B25/00B4 . . [N: for wheeled cargo ([B63B25/20](#) takes precedence)] [N0012]
 - B63B25/02 . for bulk goods
 - B63B25/04 . . solid

- B63B25/06 . . . for cereals
- B63B25/08 . . fluid [N: (constructional features of bunkers [B63B11/04](#); tanks for fuel or the like not forming bunkers [B63B17/00F](#))] [C1008]
- [N: **WARNING** [N1008]
Documents in [B63B25/08](#) and subgroups concerning bunkers and other tanks for fuel or the like are in the process of being reclassified to [B63B11/04](#) and [B63B17/00F](#)
]
- B63B25/08L . . . [N: Arrangements for minimizing pollution by accidents (associated with tanks for fuel or the like not forming bunkers [B63B17/00F2](#))] [C1008]
- B63B25/10 . . . open to ambient air
- B63B25/12 . . . closed
- B63B25/14 pressurised
- B63B25/16 heat-insulated (insulating panelling [B63B3/68](#); heating or cooling [B63J](#))
- B63B25/18 . Detachable decks
- B63B25/20 . . for motor vehicles or the like
- B63B25/22 . for palletised articles
- B63B25/24 . Means for preventing unwanted cargo movement, e.g. dunnage
- B63B25/26 . for frozen goods
- B63B25/28 . for deck loads
- B63B27/00** [N: IPC2] **Loading or unloading cargo or passengers** (self-discharging barges or lighters [B63B35/30](#) ; shore-based [B65G](#) [N: elevators, escalators or moving walkways per se [B66B](#); floating cranes [B66C23/52](#); loading or unloading devices per se, see the relevant subclasses, e.g. [B65G](#), [B66C](#), [B67D](#)]) [C1207]
- [N: **WARNING**
[N1208]The scope of this group is broader than the scope of the corresponding IPC group, and includes the scope of the IPC2 subgroups [B63B27/02](#), [B63B27/06](#), and [B63B27/20](#)
]
- B63B27/02 . [N: IPC2] with intermittent action
- B63B27/04 . . Ships` derricks, i.e. employing ships` masts (derricks in general [B66C](#))
- B63B27/06 . . . [N: IPC2] with slewing force exerted at pivoted end
- B63B27/08 . . using winches (winches per se [B66D](#))
- B63B27/10 . . using cranes (cranes per se [B66C](#))
- B63B27/12 . . . of gantry type
- B63B27/14 . . Ramps; Gangways or other outboard ladders (inboard ladders [B63B29/20](#) [N:; land-based bridges giving access to ships [E01D15/24](#)]); [N: Pilot lifts] [C9909]
- B63B27/14B . . . [N: Ramps]
- B63B27/14C . . . [N: Pilot ladders or similar outboard ladders, e.g. bathing ladders; Pilot lifts] [N0005] [C0801]
- B63B27/16 . . using lifts or hoists (elevators per se [B66B](#)) [N: Pilot lifts [B63B27/14](#)]

- B63B27/18 . . . using cableways, e.g. with breeches-buoys (cableways per se B65G)
- [N: **WARNING**
[N1207] this group is pending a reorganisation, also documents covered by group [B63B27/32](#) are within this group
]
- B63B27/20 . [N: IPC2] with continuous action
- B63B27/22 . . . of conveyers, e.g. of endless-belt or screw-type (arrangements of devices with throwing action [B63B27/26](#); arrangements of chutes [B63B27/28](#); conveyers per se [B65G](#)) [C9506]
- B63B27/24 . . . Loading or unloading fluids
- [N: **WARNING**
[N1207] this group is pending a reorganisation, also documents covered by group [B63B27/25](#) are within this group
]
- B63B27/25 [N: Arrangement of ship-based loading or unloading equipment] for fluidised bulk material [N1204]
- [N: **WARNING**
[N1208]Not complete, pending a reorganisation, see [B63B27/24](#)
]
- B63B27/26 . . . using devices with throwing action (devices with throwing action per se [B65G](#))
- B63B27/28 . . . using chutes (chutes per se [B65G](#))
- B63B27/30 . [N: Arrangement of ship-based loading or unloading equipment] for transfer at sea between ships or between ships and off-shore structures [N1204]
- [N: **WARNING**
[N1208]Not complete, pending a reorganisation, see [B63B22/02B](#), [B63B35/44](#), and subgroups
]
- B63B27/32 . . . using cableways [N1204]
- [N: **WARNING**
[N1208]Not complete, pending a reorganisation, see [B63B27/18](#)
]
- B63B27/34 . . . using pipe-lines [N: (Anchoring arrangements for special vessels with mooring turrets [B63B21/50T](#); Buoys specially adapted for mooring a vessel and for transferring fluids , e.g. liquids [B63B22/02B](#))] [N1204]
- [N: **WARNING**
[N1208]Not complete, pending a reorganisation, see [B63B21/50T](#), [B63B22/02B](#), [B63B35/44](#) and subgroups
]
- B63B27/36 . [N: Arrangement of ship-based loading or unloading equipment] for floating cargo (devices for facilitating retrieval of floating objects per se [B66C13/02](#)) [N1204] [M1208]
- B63B29/00 Accomodation for crew or passengers not otherwise provided for**
- B63B29/02 . . Cabins or other living spaces; Construction or arrangement thereof

- B63B29/02M . . [N: Modular or prefabricated cabins]
 - B63B29/04 . . Furniture peculiar to vessels (floatable furniture [B63C9/30](#))
 - B63B29/06 . . . Fastening to floors
 - B63B29/08 . . . Storm guards on tables, e.g. fiddles
 - B63B29/10 . . . Berths; Mounting ladders therefor
 - B63B29/12 . . . Self-levelling mountings
- [N: **WARNING**
[N1208]this group is pending a reorganisation, also documents covered by group [B63B35/50](#) and subgroups are in this group
]
- B63B29/14 . . Closet or like flushing arrangements; Washing or bathing facilities peculiar to ships
 - B63B29/16 . Soil water discharges [N: (arrangements of installations for treating waste water or sewage [B63J4/00W](#))] [C1002]
 - B63B29/18 . Arrangements or adaptations of swimming pools
 - B63B29/20 . Arrangements or adaptations of ladders (mounting ladders for berths [B63B29/10](#))
 - B63B29/20M . . [N: on masts]
 - B63B29/22 . Galleys
- B63B35/00** **Vessels or like floating structures adapted for special purposes** (vessels characterised by load-accommodating arrangements [B63B25/00](#); fire-fighting vessels [A62C29/00](#); submarines, mine-layers or mine-sweepers [B63G](#); large containers for use in or under water [B65D88/78](#); [N: Advertising on ships or other floating means [G09F21/18](#)]) [C0003]
- B63B35/00L . [N: for transporting very large loads, e.g. offshore structure modules (construction methods for artificial islands mounted on piles [E02B17/00](#); for transporting marine vessels [B63B35/40](#); docks [B63C1/00](#))]
 - B63B35/03 . Pipe-laying vessels (laying pipes under water [F16L1/12](#))
 - B63B35/04 . Cable-laying vessels
 - B63B35/06 . . for moving cable-ends from ship to shore
 - B63B35/08 . Ice-breakers, or other vessels or floating structures for operation in ice-infested waters; Ice-breakers, or other vessels or floating structures having equipment specially adapted therefor [C1207]
- [N: **WARNING**
[N1207] 1. Not complete, pending a reclassification, see also [B63B35/00](#) and subgroups, e.g. [B63B35/44](#). 2. This group is pending a reorganisation, also documents covered by group [B63B35/08B](#) are within this group
]
- [N: **Notes**
[N1207]Documents concerning vessels, or floating structures adapted at the same time for an other particular purpose are also classified in the respective other particular groups of [B63B35/00](#), e.g. floating buildings, stores, drilling platforms or

- workshops for operation in ice infested waters are also classified in [B63B35/44](#)]
- B63B35/08B . . [N: Ice-breakers ([B63B35/10](#), [B63B35/12](#) take precedence)] [N1204]
 - [N: **WARNING**
[N1208]Not complete, pending a reorganisation, see [B63B35/08](#)]
 - B63B35/08D . . [N: Vessels for displacing icebergs, or related methods (tugs in general [B63B35/66](#))] [N1204] [M1208]
 - B63B35/10 . . having forced pitching or rolling equipment
 - B63B35/12 . . having ice-cutters
 - B63B35/14 . Fishing vessels (fishing [A01K69/00](#) to [A01K97/00](#))
 - B63B35/16 . . Trawlers
 - B63B35/18 . . . adapted to dragging nets aboard
 - B63B35/20 . . . adapted to hoisting nets aboard
 - B63B35/22 . . Whale catchers; Whale factory vessels
 - B63B35/24 . . Fish holds
 - B63B35/26 . . . for live fish
 - B63B35/28 . Barges or lighters [N: (underwater-towed barges [B63G8/42](#); for transporting logs [B63B35/62](#))]
 - B63B35/28F . . [N: Flexible barges, e.g. bags]
 - B63B35/30 . . self-discharging
 - B63B35/30B . . . [N: discharging by turning over part of or the whole barge]
 - B63B35/30C . . . [N: discharging by suction, pressing or washing]
 - B63B35/30D . . . [N: discharging by mechanical means]
 - B63B35/30F . . . [N: discharging through dump-gates on the bottom or sides of the barge]
 - B63B35/30G . . . [N: Split barges interconnected hingedly or slidably]
 - B63B35/32 . for collecting pollution from open water
- Note**
If the apparatus for collecting pollution from open water is of interest apart from ship construction aspects, it is also classified in group [E02B15/00](#)
- B63B35/34 . Pontoons (floating bridges [E01D15/14](#)) [C9506]
 - B63B35/36 . . foldable
 - B63B35/38 . . Rigidly-interconnected pontoons
 - B63B35/40 . for transporting marine vessels [N: (load accomodation for floating barges and the like [B63B25/00B3](#))] [C9905]
 - B63B35/42 . . with adjustable draught
 - B63B35/44 . Floating buildings, stores, drilling platforms, or workshops, e.g. carrying water-oil separating devices [N: (construction methods for floating offshore platforms [B63B9/06C](#))] [C9908]

[N: WARNING

[N1207]This group and its subgroups are pending a reorganisation, also documents covered by groups [B63B27/30](#), [B63B27/32](#) and [B63B27/34](#) are within this group and its subgroups.

]

- B63B35/44A . . [N: Articulated towers, i.e. substantially floating structures comprising a slender tower-like hull anchored relative to the marine bed by means of a single articulation, e.g. using an articulated bearing] [N1204] [M1208]
- B63B35/44B . . [N: Floating drilling platforms, e.g. carrying water-oil separating devices]
- B63B35/50 . Vessels or floating structures for aircraft (aircraft carriers [B63G11/00](#); flying-boat hulls, other flotation means for aircraft [B64](#))

[N: WARNING

[M1208]

1) not complete pending a reorganisation, see for self-levelling landing platforms also [B63B29/12](#); 2) this group and its subgroup [B63B35/52](#) are pending a reorganisation, also documents covered by group [B63B35/53](#) are in this group and its subgroups

]

- B63B35/52 . . Nets, slipways or the like, for recovering aircraft from the water [C1107]

[N: WARNING

[N1208]This group is pending a reorganisation, also documents covered by group [B63B35/53](#) are within this group.

]

- B63B35/53 . . Floating runways [N1107]

[N: **WARNING**Group [B63B35/53](#) is not complete pending a reorganisation; see also groups [B63B35/50](#) and [B63B35/52](#)

[C1207]

]

- B63B35/54 . Ferries (propulsion of chain ferries [B63H](#))
- B63B35/56 . Lightships (marking of navigational route [B63B51/00](#))
- B63B35/58 . Rafts, i.e. free floating waterborne vessels, of shallow draft, with little or no freeboard, and having a platform or floor for supporting a user (lifeboats, life-rafts or the like [B63C9/02](#))
- B63B35/607 . . having a platform or floor below the level of the buoyancy means, e.g. suspended basket type
- B63B35/613 . . with tubular shaped flotation members
- B63B35/62 . . formed from logs or the like
- B63B35/66 . Tugs (towing or pushing equipment [B63B21/56](#))
- B63B35/66B . . [N: Floating propeller units, i.e. a motor and propeller unit mounted in a floating box (outboard propulsion units [B63H20/00](#))] [C1002]
- B63B35/68 . . for towing
- B63B35/70 . . for pushing
- B63B35/71 . [N: Canoes, kayaks or the like (collapsible, foldable, inflatable or like vessels [B63B7/00](#))]

- B63B35/73 . . . Other vessels or like floating structures for pleasure or sport
- B63B35/73B . . . [N: Waterscooters]
- B63B35/73D . . . [N: House boats]
- B63B35/74 . . . Body supporting buoyant devices with seat; [N: and bathing boats]
- B63B35/76 Ring-shaped buoyant member
- B63B35/78 U-shaped buoyant member
- B63B35/79 . . . Surf-boards, e.g. sailboards
- B63B35/79C [N: Construction or shape of the boards]
- B63B35/79C1 [N: characterised by the arrangement of constructive parts made predominantly of plastics, e.g. layers] [N9501]
- B63B35/79C2 [N: inflatable]
- B63B35/79C3 [N: sectionalised]
- B63B35/79C4 [N: catamaran-shaped ([B63B35/79C6](#) takes precedence)]
- B63B35/79C6 [N: with hydrofoils ([hydrofoils per se B63B1/24](#))]
- B63B35/79C7 [N: Fins, keels or steering devices acting on water]
- B63B35/79C7A [N: Fixations for fins which do not normally move during sailing, e.g. fixations that can be slidably set before sailing] [N9409]
- B63B35/79E [N: Emergency arrangements and equipment; Other accessories ([anti-theft devices using locks E05B73/00C](#))] [C9911]
- B63B35/79E2 [N: Arrangements for the feet of the surfer] [N0509]
- B63B35/79M [N: Motordriven boards]
- B63B35/79S [N: Stowing or transporting arrangements ([transporting on vehicles B60R9/08](#))]
- B63B35/79T [N: transformable into another vehicle, e.g. sailboat, watercycle]
- B63B35/79W [N: Winddriven boards]
- B63B35/79W2 [N: Mast foot arrangements]
- B63B35/79W3 [N: Wishbone]
- B63B35/79W3B [N: Connection to the mast]
- B63B35/79W4 [N: Sail arrangements]
- B63B35/79W4B [N: Sails pivotally mounted at a mast-tip; Kite-sails ([kites per se B64C31/06](#))] [C0310]
- B63B35/79W4B1 [N: Control means for kite-sails; Harnesses for connecting kite-sails to a user, e.g. of quick release type] [N0310]
- [N: **WARNING**
[N0310]
Not complete, see [B63B35/79W4B](#), [B64C31/06](#)
]
- B63B35/79W4C [N: Sails with detachable sections, e.g. to change the sail area] [N9812]
- B63B35/79W4T [N: Devices to tension the luff of the sail] [N9706]
- B63B35/79W6 [N: Harnesses or handgrips]
- B63B35/79W6E [N: with elastic connection to the wishbone] [N9607]
- B63B35/81 . . . Waterskis; Watersledges
- B63B35/81B [N: with means for additional lift by provision of hollow bodies]
- B63B35/81C [N: Bindings]

- B63B35/81T . . . [N: Towing devices]
- B63B35/81T2 [N: Connection of the tow to the boat; using winches (winches per se [B66D](#))]
- B63B35/81T4 [N: Handles]
- B63B35/83 . . Water shoes; Bog shoes
- B63B35/85 . . Accessories not otherwise provided for, e.g. sticks for water skiing

- B63B38/00** **Vessels or like floating structures not otherwise provided for** (vessels characterised by load-accomodating arrangements [B63B25/00](#); fire-extinguishing vessels [A62C29/00](#); submarines, mine-layers or mine-sweepers [B63G](#); large containers for use in or under water [B65D88/78](#))

- B63B39/00** **Equipment to decrease pitch, roll, or like unwanted vessel movements; Apparatus for indicating vessel attitude** [N: (for amphibious vehicles [B60F3/00C2](#))]

- B63B39/00V . [N: Equipment to decrease ship`s vibrations produced externally to the ship, e.g. wave-induced vibrations (propulsion mountings for anti-vibration purposes [B63H21/30](#); vibration dampers, suppression of vibration in systems [F16F](#))]

- B63B39/02 . to decrease vessel movements by displacement of masses
- B63B39/03 . . by transferring liquids

- B63B39/04 . to decrease vessel movements by using gyroscopes directly

- B63B39/06 . to decrease vessel movements by using foils acting on ambient water (constructional aspects of bilge keels [B63B3/44](#); [N: foils mounted on the housing of outboard motors [B63H20/34](#)] [[C1002](#)])
- B63B39/06B . . [N: by using trimflaps, i.e. flaps mounted on the rear of a boat, e.g. speed boat]
- B63B39/06C . . [N: the foils being mounted on outriggers or the like, e.g. antidrift hydrofoils for sail boats (hydrofoils [B63B1/24](#); drop keels [B63B41/00](#))]

- B63B39/08 . to decrease vessel movements by using auxiliary jets or propellers (for steering or dynamic anchoring [B63H25/00](#))

- B63B39/10 . to decrease vessel movements by damping the waves, e.g. by pouring oil on water

- B63B39/12 . for indicating draught or load

- B63B39/14 . for indicating inclination or duration of roll

- B63B41/00** **Drop keels, e.g. centre boards, side boards** [N: Collapsible keels, or the like, e.g. telescopically; Longitudinally split hinged keels] (keels integral with hull [B63B3/38](#); stabilising foils [B63B39/06](#)) [[M1207](#)]

- B63B43/00** **Improving safety of vessels, e.g. damage control, not otherwise provided for** (fire-fighting in ships [A62C3/10](#))

- B63B43/02 . reducing risk of capsizing or sinking (by means of watertight doors in bulkheads [B63B43/24](#))
- B63B43/04 . . by improving stability

- B63B43/04F . . . [N: by decreasing the free surface effect of water entered in enclosed decks] [N9709]
- B63B43/06 . . . using ballast tanks (conduits for emptying or ballasting [B63B13/00](#))
- B63B43/08 . . . by transfer of solid ballast
- B63B43/08B [N: the stabilising effect being provided by the weight of a person placed on an outrigger seat swingable around a vertical axis] [N0011]
- B63B43/10 . . . by improving buoyancy [N: (amphibious cycles [B60F3/00C2](#))]
- B63B43/12 . . . using inboard air containers [N: or inboard floating members] [C9912]
- B63B43/14 . . . using outboard floating members
- B63B43/16 . . . Temporary equipment for stopping leaks, e.g. collision mats

- B63B43/18 . preventing collision [N: or grounding]; reducing collision damage [N: (reducing pollution by collision [B63B25/08L](#))] [C9506]
- B63B43/20 . . Feelers

- B63B43/24 . Arrangements of watertight doors in bulkheads
- B63B43/26 . . of sliding type
- B63B43/28 . . . with mechanical drive
- B63B43/30 . . . with fluid drive
- B63B43/32 . . of non-sliding type

- B63B45/00** **Arrangement or adaptation of signalling or lighting devices** (arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general [B60Q](#); life-buoys, -belts, -jackets, -suits or the like, characterised by signalling means [B63C9/20](#); lighting devices or systems therefor [F21L](#), [F21S](#))
 [N: **WARNING** [N1109]
 Not complete, pending a reorganisation; see [B63C9/21](#)
]
- B63B45/02 . the devices being intended to illuminate the way ahead or other areas of environments
- B63B45/04 . the devices being intended to indicate the vessel or parts thereof
- B63B45/06 . the devices being intended to illuminate vessels` decks or interior
- B63B45/08 . the devices being acoustic

- B63B49/00** **Arrangements of nautical instruments or navigational aids** (nautical measuring instruments [G01C](#); radio navigation, analogous arrangements using other waves [G01S](#)) [C9506]

- B63B51/00** **Marking of navigation route**
- B63B51/02 . with anchored light-ships; by use of lighthouses
- B63B51/04 . with free-floating flares

- B63B57/00** **Tank [N: or cargo hold] cleaning specially adapted for vessels** (tank cleaning in

general [B08B9/08](#)) [[C0804](#)]

[B63B57/02](#) . by washing

[B63B57/04](#) . by ventilating

[B63B59/00](#) **Hull protection peculiar to vessels; Cleaning devices peculiar to vessels and integral therewith** (cleaning of vehicles in general [B60S](#); other cleaning in general [B08B](#); inhibiting corrosion of metals by anodic or cathodic protection [C23F13/00](#))

[B63B59/02](#) . Fenders integral with waterborne vessels or specially adapted therefor, [[N](#): e.g. fenders forming part of the hull or incorporated in the hull]; Rubbing-strakes (fenders on coasts, in harbours or on other fixed marine structures [E02B3/26](#)) [[C9512](#)]

[B63B59/04](#) . Preventing hull fouling (anti-fouling paints [C09D5/16](#)) [[C9511](#)]

[B63B59/04S](#) . . [[N](#): by wrapping the submerged hull or part of the hull with an impermeable sheet (stopping temporarily leaks in hulls with impermeable sheets [B63B43/16](#))] [[N9509](#)]

[B63B59/06](#) . Cleaning devices for hulls

[B63B59/08](#) . . of underwater surfaces while afloat ([B63B59/10](#) takes precedence)

[B63B59/10](#) . . using trolleys or the like driven along the surface

[B63B69/00](#) **Equipment for shipping not otherwise provided for** [[N1208](#)]