

# CPC COOPERATIVE PATENT CLASSIFICATION

## B63B SHIPS OR OTHER WATERBORNE VESSELS; EQUIPMENT FOR SHIPPING ( {amphibious vehicles [B60F 3/00](#); } air-cushion vehicles [B60V](#); arrangements of vessel ventilation, heating, cooling or air conditioning [B63J 2/00](#) )

### NOTE

In this subclass, the indexing codes [B63B 2201/00](#) - [B63B 2241/00](#) are to be used for relevant technical information concerning particular or unusual use, materials, design, methods or means.

<b>1/00</b>	<b>Hydrodynamic or hydrostatic features of hulls or of hydrofoils</b> (keels <a href="#">B63B 3/38</a> ; determining hydrodynamic or hydrostatic features <a href="#">B63B 9/00</a> ; hulls peculiar to submarines <a href="#">B63B 3/13</a> ; decreasing pitch, roll or like unwanted vessel movements by using foils or acting on ambient water <a href="#">B63B 39/06</a> )	1/14	. . . the hulls being interconnected resiliently {or having means for actively varying hull shape or configuration (collapsible, foldable, inflatable or like vessels <a href="#">B63B 7/00</a> )}
2001/005	. {Deflectors for spray, e.g. for guiding spray generated at the bow of a planing vessel underneath the hull}	2001/145	. . . . {having means for actively varying hull shape or configuration}
1/02	. deriving lift mainly from water displacement ( <a href="#">B63B 1/16</a> takes precedence)	1/16	. deriving additional lift from hydrodynamic forces
1/04	. . with single hull	1/18	. . of hydroplane type
1/041	. . . {with disk-shaped hull}	2001/183	. . . {having non-floating planing surfaces, e.g. attached skis or plate-shaped bodies}
1/042	. . . {the underpart of which being partly provided with channels or the like, e.g. catamaran shaped}	2001/186	. . . {Sponsons; Arrangements thereof}
2001/044	. . . {with a small waterline area compared to total displacement, e.g. of semi-submersible type}	1/20	. . . having more than one planing surface ( <a href="#">B63B 1/22</a> takes precedence)
2001/045	. . . {with means for actively varying hull shape or configuration, e.g. for varying hydrodynamic characteristics}	2001/201	. . . . {divided by longitudinal chines}
1/047	. . . {with spherical hull or hull in the shape of a vertical ring (Freely movable rolling hoops, e.g. gyro wheels for exercising <a href="#">A63B 19/02</a> )}	2001/202	. . . . {divided by transverse steps}
1/048	. . . {with hull extending principally vertically}	2001/203	. . . . {arranged in semi-catamaran configuration}
1/06	. . . Shape of fore part	2001/204	. . . . {arranged on multiple hulls}
1/063	. . . . {Bulbous bows}	2001/205	. . . . . {the hulls being interconnected rigidly}
2001/066	. . . . {Substantially vertical stems}	2001/206	. . . . . {comprising two hulls, e.g. catamarans}
1/08	. . . Shape of after part	2001/207	. . . . . {comprising more than two hulls}
1/10	. . with multiple hulls	2001/208	. . . . . {comprising three hulls, e.g. trimarans}
2001/102	. . . {Proas, or similar twin-hull vessels with one main hull and one smaller hull or floater, interconnected by one or more outrigger beams or the like}	2001/209	. . . . . {the hulls being interconnected resiliently, or having means for actively varying hull shape or configuration}
1/105	. . . {comprising a cockpit surrounded and pivotally supported by at least three floats}	1/22	. . . with adjustable planing surfaces
1/107	. . . {Semi-submersibles; Small waterline area multiple hull vessels and the like, e.g. SWATH}	1/24	. . of hydrofoil type {(controlling attitude or depth of underwater vessels by hydrofoils or the like <a href="#">B63G 8/18</a> )}
1/12	. . . the hulls being interconnected rigidly {( <a href="#">B63B 1/107</a> takes precedence)}	1/242	. . . {Mounting, suspension of the foils ( <a href="#">B63B 1/30</a> takes precedence)}
1/121	. . . . {comprising two hulls ( <a href="#">B63B 1/107</a> takes precedence)}	1/244	. . . {Safety systems, e.g. when striking an object}
2001/123	. . . . . {interconnected by a plurality of beams, or the like members only}	1/246	. . . {Arrangements of propulsion elements (propulsion elements in general <a href="#">B63H 5/00</a> , propulsion by jets in general <a href="#">B63H 11/00</a> )}
1/125	. . . . . {comprising more than two hulls ( <a href="#">B63B 1/107</a> takes precedence)}	1/248	. . . {Shape, hydrodynamic features, construction of the foil}
2001/126	. . . . . {comprising more than three hulls}	1/26	. . . having more than one hydrofoil ( <a href="#">B63B 1/28</a> takes precedence)
2001/128	. . . . . {comprising underwater connectors between the hulls}	1/28	. . . with movable hydrofoils
		2001/281	. . . . {movable about an axis substantially parallel to the flow direction}
		1/283	. . . . . {movable around a vertical axis, e.g. for steering}
		1/285	. . . . . {changing the angle of attack or the lift of the foil}
		1/286	. . . . . {using flaps}
		1/288	. . . . . {using gas exhaust through the foil}
		1/30	. . . . retracting or folding {( <a href="#">B63B 1/244</a> takes precedence)}

- 1/32 . . . Other means for varying the inherent hydrodynamic characteristics of hulls
- 1/322 . . . {using aerodynamic elements, e.g. aerofoils producing a lifting force ([flying boats B64C 35/00](#))}
- 2001/325 . . . {Interceptors, i.e. elongate blade-like members projecting from a surface into the fluid flow substantially perpendicular to the flow direction, and by a small amount compared to its own length}
- 2001/327 . . . {using magneto-hydrodynamic forces}
- 1/34 . . . by reducing surface friction
- 2001/345 . . . {by ejecting friction reducing solids or liquids, e.g. polymers}
- 1/36 . . . using mechanical means
- 1/38 . . . using air bubbles or air layers {gas filled volumes ([waterborne vessels travelling on air cushions B60V 3/06](#))}
- 2001/382 . . . . {by making use of supercavitation, e.g. for underwater vehicles}
- 2001/385 . . . . {using exhaust gas}
- 2001/387 . . . . {using means for producing a film of air or air bubbles over at least a significant portion of the hull surface}
- 1/40 . . . by diminishing wave resistance
- 3/00** **Constructions of hulls (non-metallic hulls [B63B 5/00](#); designing, building, maintaining or repairing methods [B63B 9/00](#))**
- 3/02 . . . Hulls assembled from prefabricated sub-units
- 3/04 . . . with permanently-connected sub-units
- 3/06 . . . the sub-units being substantially identical
- 3/08 . . . with detachably-connected sub-units
- 2003/085 . . . . {Multiple hull vessels, e.g. catamarans, assembled from detachably-connected sub-units}
- 3/09 . . . Hulls constructed of non-magnetic metal
- 3/10 . . . Armoured hulls
- 3/12 . . . Frameless hulls
- 3/13 . . . Hulls built to withstand hydrostatic pressure when fully submerged, e.g. submarine hulls
- 3/14 . . . Hull parts ([hull armour B63B 3/10](#))
- 3/142 . . . {Connections between the shell and deck}
- 2003/145 . . . {Frameworks, i.e. load bearing assemblies of trusses and girders interconnected at nodal points}
- 2003/147 . . . {Moon-pools, e.g. for offshore drilling vessels}
- 3/16 . . . Shells ([ports or closures therefor B63B 19/00](#))
- 3/18 . . . characterised by being formed predominantly of parts that may be developed into plane surfaces
- 3/185 . . . . {comprising only flat panels}
- 3/20 . . . of double type
- 3/22 . . . with corrugations
- 3/24 . . . Means for diminishing external ridges of protrusions
- 3/26 . . . Frames
- 2003/265 . . . . {comprising open profiles, e.g. U- or gutter-shaped, and forming substantially closed channels together with the plate to which they are attached}
- 3/28 . . . of transverse type; Stringers
- 3/30 . . . . Bilge knees; Beam knees
- 3/32 . . . Web frames; Web beams
- 3/34 . . . of longitudinal type; Bulkhead connections
- 3/36 . . . Combined frame systems
- 3/38 . . . Keels ([movable keels B63B 41/00](#))
- 2003/382 . . . . {adapted for housing energy accumulators, e.g. batteries}
- 2003/385 . . . . {with means for controlling heeling or rolling motions, or lift, e.g. flaps, by changing geometry, or by ballast displacement}
- 2003/387 . . . . {adapted for housing propulsion plant elements}
- 3/40 . . . Stern posts; Stern frames
- 3/42 . . . Shaft brackets
- 2003/425 . . . . {having features not related to structural construction, e.g. hydrodynamic properties or bearings}
- 3/44 . . . Bilge keels ([stabilising aspect B63B 39/06](#))
- 3/46 . . . Stems
- 3/48 . . . Decks ([planking B63B 5/06](#))
- 2003/485 . . . . {movably connected to hull or superstructure}
- 3/50 . . . of vaulted type
- 3/52 . . . Pillars; Deck girders
- 3/54 . . . Hatch openings
- 3/56 . . . Bulkheads; Bulkhead reinforcements ([arrangements of water-tight doors B63B 43/24](#))
- 3/58 . . . . with flat plating
- 3/60 . . . . with curved or corrugated plating
- 3/62 . . . Double bottom; Tank tops
- 3/64 . . . Keelsons
- 3/66 . . . Gratings
- 3/68 . . . Panelling; Lining, e.g. for insulating purposes
- 3/70 . . . Reinforcements for carrying localised loads, e.g. propulsion plant, guns
- 5/00** **Hulls characterised by their construction of non-metallic material**
- 5/02 . . . made predominantly of wood
- 5/04 . . . Carcasses
- 5/06 . . . Decks; Shells
- 5/065 . . . . {caulking decks ([mortise chisels for wood B25D 3/00](#))}
- 5/08 . . . with single-layer planking
- 5/10 . . . with multiple-layer planking
- 5/12 . . . made predominantly of wood with metal reinforcement, i.e. composite construction
- 5/14 . . . made predominantly of concrete, e.g. reinforced
- 5/16 . . . monolithic
- 5/18 . . . built-up from elements
- 5/20 . . . in combination with elements of other materials
- 5/22 . . . with reinforcing members external to shell
- 5/24 . . . made predominantly of plastics ([surf boards B63B 35/7909](#))}
- 2005/242 . . . . {made of a composite of plastics and other structural materials, e.g. wood or metal}
- 2005/245 . . . . {made of a composite of plastics and metal}
- 2005/247 . . . . {made of a composite of plastics and wood}
- 7/00** **Collapsible, foldable, inflatable or like vessels ([foldable pontoons B63B 35/36](#))**
- 2007/003 . . . {with foldable members}
- 2007/006 . . . {comprising nestable elements}
- 7/02 . . . comprising only rigid parts
- 7/04 . . . sectionalised
- 7/06 . . . having parts of non-rigid material

2007/065	. . {comprising flexible pockets for receiving removable floaters}	13/02	. Ports for passing water through vessels' sides {jet propulsors with clogging prevention means <a href="#">B63H 11/01</a> }
7/08	. . inflatable		
7/082	. . . {having parts of rigid material}		
7/085	. . . {Accessories or mountings specially adapted therefor, e.g. seats, sailing kits, motor mountings}	15/00	<b>Superstructures {, deckhouses, wheelhouses or the like}; Arrangements or adaptations of masts {or spars, e.g. bowsprits}</b> (loading or unloading equipment <a href="#">B63B 27/00</a> ; masts and staying in general <a href="#">E04H</a> ; sails, running rigging <a href="#">B63H</a> ; {mounting ladders or the like on masts <a href="#">B63B 29/205</a> })
7/087	. . . . {Motor mountings, e.g. transom panels for outboard motors}		
9/00	<b>Methods of designing, building, maintaining, converting, refitting, repairing, or determining properties of vessels, not otherwise provided for</b> (shuttering for building concrete vessels <a href="#">E04G</a> )	2015/0008	. {Bowsprits}
9/001	. {Methods of designing, or determining properties of vessels by means of analytical modelling, e.g. computational}	2015/0016	. {Masts characterized by mast configuration or construction}
9/002	. . {using fluid dynamics analysis, e.g. computational fluid dynamics}	2015/0025	. . {Bipodded masts, e.g. A-type masts}
9/003	. . {using structure analysis, e.g. finite elements}	2015/0033	. . {Multipodded masts, e.g. tripod-type}
2009/005	. {Methods for dismantling hulls, or elements of ships or other waterborne vessels, e.g. floating offshore structures}	2015/0041	. . {Telescoping masts}
2009/006	. . {for dismantling hulls, or structural elements}	2015/005	. . {with means for varying mast position or orientation with respect to the hull}
2009/007	. . {for unshipping or dismantling equipment or non-structural elements, e.g. propellers, rudders or prime movers}	2015/0058	. . . {comprising active mast inclination means}
2009/008	. {Methods for repairing hulls or structural elements of ships or other waterborne vessels, e.g. floating offshore structures}	2015/0066	. . . {Inclinable masts with passive righting means, e.g. counterbalancing means}
9/02	. Using towing tanks or model basins for designing {(arrangements in or on ship testing tanks or water tunnels <a href="#">G01M 10/00</a> )}	2015/0075	. . . {with mast foot adapted for being moved, e.g. athwartship}
2009/025	. . {using ice model basins; using non-refrigerated towing tanks or model basins with floating ice covers simulated by other means, e.g. wax}	15/0083	. {Masts for sailing ships or boats}
9/04	. Rebuilding ships, e.g. increasing tonnage	2015/0091	. . {comprising means for silencing rope noise}
9/06	. Methods of building hulls	15/02	. Staying of masts or of other superstructures
9/062	. . {by folding (foldable vessels <a href="#">B63B 7/00</a> )}	17/00	<b>Vessel parts, details, or accessories, not otherwise provided for</b> {(vehicle fittings for preventing or indicating unauthorised use or theft of vehicles in general <a href="#">B60R 25/00</a> ; propeller guards, line cutters or other means for protecting propellers or rudders <a href="#">B63H 5/165</a> ; protection of power legs of outboard propulsion units <a href="#">B63H 20/36</a> ; locking devices for boats, surfboards or parts or accessories thereof <a href="#">E05B 73/007</a> )}
9/065	. . {for floating offshore platforms (grounded platforms <a href="#">E02B 17/00</a> )}	2017/0009	. {Methods or devices specially adapted for preventing theft, or unauthorized use of vessels, or parts or accessories thereof, other than by using locks}
2009/067	. . . {for assembling offshore structures, e.g. <i>in situ</i> , using buoyancy forces for supporting the structure itself, or part of it, e.g. using barges}	17/0018	. {Arrangements or devices specially adapted for facilitating access to underwater elements, e.g. to propellers (retractable propellers <a href="#">B63H 5/125</a> ; tilting outboard propulsion units <a href="#">B63H 20/08</a> ); Externally attached cofferdams or the like (caissons adapted to laying foundations <a href="#">E02D 23/00</a> - <a href="#">E02D 27/00</a> )}
9/08	. Determining vessel properties with respect to stability or balance	17/0027	. {Tanks for fuel or the like (constructional features of bunkers <a href="#">B63B 11/04</a> ); Accessories therefor, e.g. tank filler caps (fuel tanks for vehicles in general <a href="#">B60K 15/03</a> ; cargo tanks <a href="#">B63B 25/08</a> ; cleaning of tanks <a href="#">B63B 57/00</a> ; handling of liquids for use in power plants <a href="#">B63H 21/38</a> )}
11/00	<b>Interior subdivision of hulls (bulkhead space construction <a href="#">B63B 3/56</a>)</b>	17/0036	. . {Arrangements for minimizing pollution by accidents (associated with cargo tanks <a href="#">B63B 25/082</a> )}
11/02	. Arrangement of bulkheads, e.g. defining cargo spaces	2017/0045	. {Caps, hoods, or the like devices for protective purposes, not otherwise provided for}
11/04	. Constructional features of bunkers, {e.g. structural fuel tanks,} or ballast tanks, e.g. with elastic walls ({tanks for fuel or the like not forming subdivisions of the hull <a href="#">B63B 17/0027</a> ; } cleaning of tanks <a href="#">B63B 57/00</a> )	2017/0054	. {Rests or supports for movable ship-borne equipment}
11/06	. Propeller-shaft tunnels	2017/0063	. . {Boom rests, i.e. props for main sail booms, derricks, or the like}
13/00	<b>Conduits for emptying or ballasting; Self-bailing equipment; Scuppers (draining means for hatches <a href="#">B63B 19/26</a>; centrifugal bilge-water separators <a href="#">B04</a>; {arrangements of installations for treating ballast water <a href="#">B63J 4/002</a>; } pipes in general <a href="#">F16L</a>)</b>	2017/0072	. {Seaway compensators}
2013/005	. {Sea chests}		

- 17/0081 . {Vibration isolation or damping elements or arrangements, e.g. elastic support of deck-houses (mounting of propulsion plant or unit [B63H 21/30](#); vibration dampers, suppression of vibration in systems [F16F](#))}
- 2017/009 . {Wave breakers, breakwaters, splashboards, or the like}
- 17/02 . Awnings {, including rigid weather protection structures, e.g. sunroofs; Tarpaulins; Accessories for awnings or tarpaulins}
- 17/023 . . {Hatchway tents, e.g. for weather protection of cargo during loading or unloading}
- 2017/026 . . {Rigid awnings, or sunroofs}
- 17/04 . Stanchions; Guard-rails; {Bulwarks or the like}
- 2017/045 . . {Bulwarks, or the like}
- 17/06 . Refuse discharge, e.g. for ash ({arrangements of installations for treating refuse or sludge, e.g. tank washing sludge [B63J 4/00](#); } removal of domestic or like refuse [B65F](#))
- 19/00 Arrangements or adaptations of ports, doors, windows, port-holes, or other openings or covers (scuppers [B63B 13/00](#); arrangements of watertight doors in bulkheads [B63B 43/24](#))**
  - 2019/0007 . {Ship's windows}
  - 2019/0015 . . {Bull's eyes, or the like ship's windows}
  - 2019/0023 . . . {Pivotal bull's eyes with central pivoting axis}
  - 2019/003 . . . {Pivotal bull's eyes with peripheral hinge axis}
  - 2019/0038 . . {Ship's windows, other than bull's eyes}
  - 2019/0046 . . . {Fixed ship's windows, other than bull's eyes}
  - 2019/0053 . {Locking means for ports, doors, windows, covers, or the like, e.g. providing for watertight closure when locked}
  - 2019/0061 . . {comprising pivotally supported threaded locking bolts}
  - 2019/0069 . . {comprising movable positive fit locking members, e.g. swivelling locking clips, or dogs}
  - 2019/0076 . . . {comprising multiple positive fit locking members arranged for simultaneous locking action}
  - 2019/0084 . . . . {with mechanical drive for effecting simultaneous locking action}
  - 2019/0092 . {Fly screens, or the like protection devices against insects, e.g. for insertion into bull's eyes openings}
  - 19/02 . Clear-view screens; {Windshields (canopies connected to windshields [B63B 17/02](#))}
  - 19/04 . Air-catching equipment related to windows or port-holes (ventilation [B63J 2/00](#))
  - 19/06 . . readily detachable
  - 19/08 . Ports or like openings in vessels' sides {or at the vessels' bow or stern (forming ramps when open [B63B 27/143](#))}
  - 2019/083 . . {Bow ports, e.g. for ferries}
  - 2019/086 . . {Stern ports, e.g. for ferries or Ro-Ro-vessels}
  - 19/10 . . Coal ports
  - 19/12 . Hatches; Hatchways (hatch coamings [B63B 3/54](#))
  - 19/14 . . Hatch covers (opening devices in general [E05F](#))
  - 2019/145 . . . {with means for adjusting size, e.g. width}
  - 19/16 . . . with detachable boards
  - 19/18 . . . slidable
  - 2019/185 . . . . {with sliding bearings}
  - 19/19 . . . foldable
  - 19/197 . . . . actuated by fluid pressure
  - 19/203 . . . . actuated by cables or the like
- 19/21 . . . of roll-up type
- 19/22 . . Hatch beams
- 19/24 . . Hatch fastenings, e.g. cleats
- 2019/245 . . . {Loose or removable fastening members specially adapted for fastening hatch covers to coamings, sills, or the like}
- 19/26 . . Gaskets; Draining means
- 19/28 . . Other safety means
- 21/00 Tying-up; Shifting, towing, or pushing equipment; Anchoring ({of buoys [B63B 22/04](#)}; dynamic anchoring [B63H 25/00](#); equipment for shipping on coasts, in harbours or on other fixed marine structures, e.g. for landing purposes, [E02B](#))**
- WARNING**  
Group [B63H 21/00](#) 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 [B63B 21/20](#)
- 2021/001 . {Mooring bars, yokes, or the like, e.g. comprising articulations on both ends}
- 2021/002 . . {Yokes, or the like}
- 2021/003 . {Mooring or anchoring equipment, not otherwise provided for}
- 2021/004 . . {Quick release elements in mooring connections}
- 2021/005 . . {Resilient passive elements to be placed in line with mooring or towing chains, or line connections, e.g. dampers or springs}
- 2021/006 . . {Suction cups, or the like, e.g. for mooring, or for towing or pushing}
- 2021/007 . . {Remotely controlled subsea assistance tools, or related methods for handling of anchors or mooring lines, e.g. using remotely operated underwater vehicles for connecting mooring lines to anchors}
- 2021/008 . . {Load monitors}
- 2021/009 . . {Drift monitors}
- 21/02 . Magnetic mooring equipment
- 21/04 . Fastening or guiding equipment for chains, ropes, hawsers, or the like {(means for fastening cables or ropes in general [F16G 11/00](#))}
- 21/045 . . {T-shaped cleats}
- 21/06 . . Bollards
- 21/08 . . Clamping devices (in general [F16B](#); {means for fastening cables or ropes to one another or to other objects in general [F16G 11/00](#))}
- 21/10 . . Fairleads
- 21/12 . . Rat guards
- 21/14 . . Hawse-holes; Hawse-pipes; Hawse-hole closures
- 21/16 . Using winches (winches per se [B66D](#))
- 21/18 . Stoppers for anchor chains ({anchor capstans [B66D 1/72](#))}
- 21/20 . 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](#) {or [D07B](#)}
- 2021/203 . . {Mooring cables or ropes, hawsers, or the like; Adaptations thereof}
- 2021/206 . . {Weights attached to mooring lines or chains, or the like; Arrangements thereof}
- 21/22 . Handling or lashing of anchors



- 2021/222 . . {Buoyancy elements adapted or used for manipulating anchors, e.g. buoyancy elements built-in, or connected to the anchor, and used for lifting or up-righting the same}
- 2021/225 . . {Marker buoys for indicating position of an anchor, or for providing a line connection between the anchor and the water surface}
- 21/227 . . {Stowing the anchor inside the vessel by hauling-in through an aperture in the side walls, stern or bottom}
- 21/24 . Anchors
- 21/243 . . {foldable or capable of being disassembled}
- 2021/246 . . {comprising elements yielding at a predetermined load, e.g. shear bolts}
- 21/26 . . securing to bed
- 2021/262 . . . {by drag embedment}
- 2021/265 . . . {by gravity embedment, e.g. by dropping a pile-type anchor from a certain height}
- 2021/267 . . . {by penetration of anchor into the sea bed using water jets, e.g. by ground or sand fluidisation}
- 21/27 . . . by suction
- 21/28 . . . driven in by explosive charge
- 21/29 . . . by weight, e.g. flukeless weight anchors
- 21/30 . . rigid when in use {(B63B 21/28 takes precedence)}
- 21/32 . . . with one fluke
- 21/34 . . . with two or more flukes
- 21/36 . . . . foldable
- 21/38 . . pivoting when in use {(B63B 21/28 takes precedence)}
- 21/40 . . . with one fluke
- 21/42 . . . . of ploughshare type
- 21/44 . . . with two or more flukes
- 21/46 . . with variable, {e.g.} sliding, connection to the chain, {especially for facilitating the retrieval of the anchor}
- 21/48 . . Sea-anchors; Drogues
- 21/50 . Anchoring arrangements {or methods} for special vessels, e.g. for floating drilling platforms or dredgers
- 2021/501 . . {by means of articulated towers, i.e. slender substantially vertically arranged structures articulated near the sea bed}
- 21/502 . . {by means of tension legs}
- 2021/504 . . . {comprising suppressors for vortex induced vibrations}
- 2021/505 . . {Methods for installation or mooring of floating offshore platforms on site}
- 21/507 . . {with mooring turrets}
- 21/508 . . . {connected to submerged buoy (mooring buoys per se B63B 22/02)}
- 21/54 . Boat-hooks or the like {, e.g. hooks detachably mounted to a pole}
- 21/56 . Towing or pushing equipment (tugs B63B 35/66; {towing devices for waterskis or watersledges B63B 35/815})
- 2021/563 . . {Pushing equipment}
- 2021/566 . . {comprising running ropes or chains, e.g. endless, driven by ground-borne equipment}
- 21/58 . . Adaptations of hooks for towing; Towing-hook mountings (hooks in general F16B)
- 21/60 . . . Quick releases
- 21/62 . . characterised by moving of more than one vessel (rigid interconnections between pontoons B63B 35/38)
- 21/64 . . Equipment for towing or pushing vessels by vehicles or beings moving forward on ground-based paths along water way (boat-hooks or the like B63B 21/54; shore- or ground-based equipment per se, e.g. vehicles, rails, see the relevant classes)
- 21/66 . . Equipment specially adapted for towing underwater objects or vessels, e.g. fairings for tow-cables ({paravanes for dragging fishing nets A01K 73/02; } salvaging underwater vessels or objects B63C 7/00; towed underwater vessels B63G 8/42)
- 21/663 . . . {Fairings}
- 2021/666 . . . {for intermittent towing}
- 22/00 Buoy** ({floating decoys, e.g. for waterfowl A01M 31/06; } means for indicating the location of underwater objects B63C 7/26; life-buoys, e.g. rings B63C 9/08; {mountings of acoustic transducer in underwater equipment, e.g. sonobuoys G10K 11/006; electric cables supported on or from floats H02G 9/12})
- 22/003 . {adapted for being launched from an aircraft or water vehicle;., e.g. with brakes deployed in the water}
- 2022/006 . {specially adapted for measuring or watch purposes}
- 22/02 . specially adapted for mooring a vessel
- 22/021 . . {and for transferring fluids, e.g. liquids (container type buoys having means to selectively release contents, not adapted for mooring a vessel B63B 22/26)}
- 22/023 . . . {submerged when not in use (container type buoys submerged when not in use, not adapted for mooring a vessel B63B 22/28; connected to turret B63B 21/508)}
- 22/025 . . . {and comprising a restoring force in the mooring connection provided by means of weight, float or spring devices}
- 22/026 . . . {and with means to rotate the vessel around the anchored buoy (turrets B63B 21/507)}
- 2022/028 . . {submerged, e.g. fitting into ship-borne counterpart with or without rotatable turret, or being releasably connected to moored vessel}
- 22/04 . {Fixations or other} anchoring arrangements
- 22/06 . . with means to cause the buoy to surface in response to a transmitted signal {(B63B 22/023 takes precedence)}
- 22/08 . . having means to release or urge to the surface a buoy on submergence thereof, e.g. to mark location of a sunken object
- 22/10 . . . Water soluble or water weakened means, i.e. buoy released by buoy-to-object securing means being destroyed on contact with water
- 22/12 . . . the surfacing of the buoy being assisted by a gas released or generated on submergence of the buoy
- 22/14 . . . Buoy-to-object securing means responsive to hydrostatic pressure
- 22/16 . specially adapted for marking a navigational route (signalling or lighting devices B63B 45/00)
- 22/163 . . {comprising a bell or other audible signal}

22/166	• . {comprising a light}	25/00	<b>Load-accommodating arrangements, e.g. stowing, trimming; Vessels characterised thereby</b> (trimming otherwise than by cargo division, e.g. by use of ballast <a href="#">B63B 43/06</a> , <a href="#">B63B 43/08</a> ; constructive aspects of cargo spaces <a href="#">B63B 11/00</a> ; hatches, hatchways <a href="#">B63B 19/12</a> )
22/18	• having means to control attitude or position, e.g. reaction surfaces or tether		
22/20	• . Ballast means		
22/22	• Inflatable buoys with gas generating means ( <a href="#">B63B 22/12</a> takes precedence)	25/002	• {for goods other than bulk goods (detachable decks <a href="#">B63B 25/18</a> ; palletised articles <a href="#">B63B 25/22</a> ; frozen goods <a href="#">B63B 25/26</a> ; deck loads <a href="#">B63B 25/28</a> )}
22/24	• container type, i.e. having provision for the storage of material	25/004	• . {for containers ( <a href="#">B63B 25/28</a> takes precedence)}
22/26	• . having means to selectively release contents, e.g. swivel couplings ({ <a href="#">B63B 22/021</a> takes precedence; } arrangements between ships and off-shore structures for loading or unloading, using pipe lines <a href="#">B63B 27/34</a> ; pipe joints or couplings, in general <a href="#">F16L</a> )	25/006	• . {for floating containers, barges or other floating cargo (for transporting marine vessels <a href="#">B63B 35/40</a> )}
22/28	• . submerged when not in use ({ <a href="#">B63B 22/023</a> takes precedence})	25/008	• . {for wheeled cargo ( <a href="#">B63B 25/20</a> takes precedence)}
<b>23/00</b>	<b>Equipment for handling lifeboats or the like</b>	25/02	• for bulk goods
23/02	• Davits, i.e. devices having arms for lowering boat by cables or the like	2025/022	• . {comprising flexible receptacles for bulk cargo, e.g. bladders for liquid cargo inserted in tanks}
23/04	• . with arms pivoting on substantially horizontal axes, e.g. gravity type	2025/025	• . {Vessels adapted for particular combinations of bulk cargo}
23/06	• . . with actual pivots	2025/027	• . . {Ore-bulk-oil carriers}
23/08	• . . . the arms being articulated	25/04	• . . solid
23/10	• . . . with positive drive of the arms	25/06	• . . for cereals
23/12	• . . . with simulated pivots	25/08	• . fluid {(constructional features of bunkers <a href="#">B63B 11/04</a> ; tanks for fuel or the like not forming bunkers <a href="#">B63B 17/0027</a> )}
23/14	• . . . using linkages	25/082	• . . {Arrangements for minimizing pollution by accidents (associated with tanks for fuel or the like not forming bunkers <a href="#">B63B 17/0036</a> )}
23/16	• . . . using guide tracks		
23/18	• . with arms pivoting on substantially vertical axes	2025/085	• . . {comprising separation membranes}
23/20	• . . Davits with single arms ( <a href="#">cranes in general B66C</a> )	2025/087	• . . {comprising self-contained tanks installed in the ship structure as separate units}
23/22	• . . . Slings or the like therefor	25/10	• . . open to ambient air
23/24	• . . Slewing equipment therefor	25/12	• . . closed
23/26	• . with rectilinear translation of boat before lowering	25/14	• . . . pressurised
23/28	• Devices for projecting or releasing boats for free fall	25/16	• . . . heat-insulated ( <a href="#">insulating panelling B63B 3/68</a> ; <a href="#">heating or cooling B63J</a> )
23/30	• Devices for guiding boats to water surface	25/18	• Detachable decks
23/32	• . Rigid guides, e.g. having arms pivoted near waterline	25/20	• . for motor vehicles or the like
23/34	• . Guiding means for lowering by cables, e.g. for listing ships	25/22	• for palletised articles
23/36	• . . Skid fenders	25/24	• Means for preventing unwanted cargo movement, e.g. dunnage
23/38	• Transport of boats to davits or the like	2025/245	• . {of wheeled cargo, e.g. vehicle retainers}
23/40	• Use of lowering or hoisting gear	25/26	• for frozen goods
23/42	• . with braking equipment	25/28	• for deck loads
23/44	• . . on the ship	2025/285	• . {Means for securing deck containers against unwanted movements}
23/46	• . . in the boat		
23/48	• . Using winches for boat handling ( <a href="#">winches per se B66D</a> )	<b>27/00</b>	<b>Loading or unloading cargo or passengers</b> (self-discharging barges or lighters <a href="#">B63B 35/30</a> ; shore-based <a href="#">B65G</a> {elevators, escalators or moving walkways per se <a href="#">B66B</a> ; floating cranes <a href="#">B66C 23/52</a> ; loading or unloading devices per se, see the relevant subclasses, e.g. <a href="#">B65G</a> , <a href="#">B66C</a> , <a href="#">B67D</a> })
23/50	• . . with tensioning gear	27/02	• {with intermittent action}
23/52	• . . with control of winches from boat	27/04	• . Ships' derricks, i.e. employing ships' masts ( <a href="#">derricks in general B66C</a> )
23/54	• . with trimming equipment	27/06	• . . {with slewing force exerted at pivoted end}
23/56	• . . controlled from boat	27/08	• . using winches ( <a href="#">winches per se B66D</a> )
23/58	• . with tackle engaging or release gear	27/10	• . using cranes ( <a href="#">cranes per se B66C</a> )
23/60	• . Additional connections between boat and davits	27/12	• . . of gantry type
23/62	• Fastening or storing of boats on deck		
23/64	• . Lashings; Covers		
23/66	• . Blocks; Chocks		
23/68	• . . for stacking boats		
23/70	• Condition-responsive handling equipment, e.g. automatic release of boat from lowering tackle upon contact with water		

27/14	. . Ramps; Gangways or other outboard ladders (inboard ladders <a href="#">B63B 29/20</a> {; land-based bridges giving access to ships <a href="#">E01D 15/24</a> ); {Pilot lifts}	29/16	. Soil water discharges { (arrangements of installations for treating waste water or sewage <a href="#">B63J 4/006</a> ) }
2027/141	. . . {telescopically extendable}	29/18	. Arrangements or adaptations of swimming pools
27/143	. . . {Ramps}	29/20	. Arrangements or adaptations of ladders (mounting ladders for berths <a href="#">B63B 29/10</a> )
2027/145	. . . . {Inflatable ramps}	29/205	. . {on masts}
27/146	. . . {Pilot ladders or similar outboard ladders, e.g. bathing ladders; Pilot lifts}	29/22	. Galleys
2027/148	. . . . {Pilot lifts}	<b>35/00</b>	<b>Vessels or like floating structures adapted for special purposes</b> (vessels characterised by load-accommodating arrangements <a href="#">B63B 25/00</a> ; fire-fighting vessels <a href="#">A62C 29/00</a> ; submarines, mine-layers or mine-sweepers <a href="#">B63G</a> ; large containers for use in or under water <a href="#">B65D 88/78</a> ; {Advertising on ships or other floating means <a href="#">G09F 21/18</a> })
27/16	. . using lifts or hoists (elevators per se <a href="#">B66B</a> {Pilot lifts <a href="#">B63B 27/14</a> })	2035/001	. {for beach loading or unloading, e.g. landing crafts}
2027/165	. . . {Deployment or recovery of underwater vehicles using lifts or hoists}	2035/002	. {for inland waters, e.g. for use on canals or rivers}
27/18	. . using cableways, e.g. with breeches-buoys (cableways per se <a href="#">B65G</a> )	35/003	. {for transporting very large loads, e.g. offshore structure modules (construction methods for artificial islands mounted on piles <a href="#">E02B 17/00</a> ; for transporting marine vessels <a href="#">B63B 35/40</a> ; docks <a href="#">B63C 1/00</a> ) }
27/20	. {with continuous action}	2035/004	. {Passenger vessels, e.g. cruise vessels or the like}
27/22	. . of conveyors, e.g. of endless-belt or screw-type (arrangements of devices with throwing action <a href="#">B63B 27/26</a> ; arrangements of chutes <a href="#">B63B 27/28</a> ; conveyors per se <a href="#">B65G</a> )	2035/005	. {Search and rescue [SAR] vessels}
27/24	. . Loading or unloading fluids	2035/006	. {Unmanned surface vessels, e.g. remotely controlled}
27/25	. . . {Arrangement of ship-based loading or unloading equipment} for fluidised bulk material	2035/007	. . {autonomously operating}
27/26	. . using devices with throwing action (devices with throwing action per se <a href="#">B65G</a> )	2035/008	. . {remotely controlled}
27/28	. . using chutes (chutes per se <a href="#">B65G</a> )	2035/009	. {Wind propelled vessels comprising arrangements, installations or devices specially adapted therefor, other than wind propulsion arrangements, installations, or devices, such as sails, running rigging, or the like, and other than sailboards or the like or related equipment}
27/30	. {Arrangement of ship-based loading or unloading equipment} for transfer at sea between ships or between ships and off-shore structures	35/03	. Pipe-laying vessels (laying pipes under water <a href="#">F16L 1/12</a> )
27/32	. . using cableways	35/04	. Cable-laying vessels
27/34	. . using pipe-lines {(Anchoring arrangements for special vessels with mooring turrets <a href="#">B63B 21/507</a> ; Buoys specially adapted for mooring a vessel and for transferring fluids, e.g. liquids <a href="#">B63B 22/021</a> ) }	35/06	. . for moving cable-ends from ship to shore
27/36	. {Arrangement of ship-based loading or unloading equipment} for floating cargo (devices for facilitating retrieval of floating objects per se <a href="#">B66C 13/02</a> )	35/08	. 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
<b>29/00</b>	<b>Accommodation for crew or passengers not otherwise provided for</b>		<b>NOTE</b>
29/02	. Cabins or other living spaces; Construction or arrangement thereof		{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 <a href="#">B63B 35/00</a> , e.g. floating buildings, stores, drilling platforms or workshops for operation in ice infested waters are also classified in <a href="#">B63B 35/44</a> }
2029/022	. . {Bathing platforms}		
29/025	. . {Modular or prefabricated cabins}		
2029/027	. . {Removable walls, e.g. for temporarily erecting cabin spaces in ship hold, or for subdividing living areas into smaller units; Fittings for removable wall panels}		
29/04	. . Furniture peculiar to vessels (floatable furniture <a href="#">B63C 9/30</a> )	35/083	. . {Ice-breakers ( <a href="#">B63B 35/10</a> , <a href="#">B63B 35/12</a> take precedence)}
2029/043	. . . {Seats; Arrangements thereof on vessels}	35/086	. . {Vessels for displacing icebergs, or related methods (tugs in general <a href="#">B63B 35/66</a> ) }
2029/046	. . . {Tables, e.g. foldable or stowable}	35/10	. . having forced pitching or rolling equipment
29/06	. . . Fastening to floors	35/12	. . having ice-cutters
29/08	. . . Storm guards on tables, e.g. fiddles	35/14	. Fishing vessels (fishing <a href="#">A01K 69/00</a> - <a href="#">A01K 97/00</a> )
29/10	. . . Berths; Mounting ladders therefor	35/16	. . Trawlers
29/12	. . . Self-levelling mountings	35/18	. . . adapted to dragging nets aboard
29/14	. . Closet or like flushing arrangements; Washing or bathing facilities peculiar to ships	35/20	. . . adapted to hoisting nets aboard
2029/145	. . . {Collapsible or non-permanent privacy rooms, e.g. closets or changing rooms}	35/22	. . Whale catchers; Whale factory vessels

- 35/24 . . Fish holds
- 35/26 . . . for live fish
- 35/28 . Barges or lighters { (underwater-towed barges [B63G 8/42](#); for transporting logs [B63B 35/62](#)) }
- 35/285 . . {Flexible barges, e.g. bags}
- 35/30 . . self-discharging
- 35/301 . . . {discharging by turning over part of or the whole barge}
- 35/303 . . . {discharging by suction, pressing or washing}
- 35/305 . . . {discharging by mechanical means}
- 35/306 . . . {discharging through dump-gates on the bottom or sides of the barge}
- 35/308 . . . {Split barges interconnected hingedly or slidably}
- 35/32 . 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 [E02B 15/00](#)
- 35/34 . Pontoons (floating bridges [E01D 15/14](#))
- 35/36 . . foldable
- 35/38 . . Rigidly-interconnected pontoons
- 35/40 . for transporting marine vessels { (load accommodation for floating barges and the like [B63B 25/006](#)) }
- 2035/405 . . {for carrying submarines}
- 35/42 . . with adjustable draught
- 35/44 . Floating buildings, stores, drilling platforms, or workshops, e.g. carrying water-oil separating devices { (construction methods for floating offshore platforms [B63B 9/065](#)) }
- 35/4406 . . {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}
- 35/4413 . . {Floating drilling platforms, e.g. carrying water-oil separating devices}
- 2035/442 . . {Spar-type semi-submersible structures, i.e. shaped as single slender, e.g. substantially cylindrical or trussed vertical bodies}
- 2035/4426 . . {Stationary floating buildings for human use, e.g. floating dwellings or floating restaurants}
- 2035/4433 . . {Floating structures carrying electric power plants}
- 2035/444 . . . {for converting combustion energy into electric energy}
- 2035/4446 . . . {for converting nuclear energy into electric energy}
- 2035/4453 . . . {for converting solar energy into electric energy}
- 2035/446 . . . {for converting wind energy into electric energy}
- 2035/4466 . . . {for converting water energy into electric energy, e.g. from tidal flows, waves or currents}
- 2035/4473 . . {Floating structures supporting industrial plants, such as factories, refineries, or the like}
- 2035/448 . . {Floating hydrocarbon production vessels, e.g. Floating Production Storage and Offloading vessels [FPSO]}
- 2035/4486 . . {Floating storage vessels, other than vessels for hydrocarbon production and storage, e.g. for liquid cargo}
- 2035/4493 . . {Floating structures supporting vegetation, such as trees, reeds, crops, plants, or the like, e.g. flexible structures}
- 35/50 . Vessels or floating structures for aircraft (aircraft carriers [B63G 11/00](#); flying-boat hulls, other flotation means for aircraft [B64](#))
- 35/52 . . Nets, slipways or the like, for recovering aircraft from the water
- 35/53 . . Floating runways
- 35/54 . Ferries (propulsion of chain ferries [B63H](#))
- 35/56 . Lightships (marking of navigational route [B63B 51/00](#))
- 35/58 . 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 [B63C 9/02](#))
- 35/607 . . having a platform or floor below the level of the buoyancy means, e.g. suspended basket type
- 35/613 . . with tubular shaped flotation members
- 35/62 . . formed from logs or the like
- 35/66 . Tugs (towing or pushing equipment [B63B 21/56](#))
- 35/665 . . {Floating propeller units, i.e. a motor and propeller unit mounted in a floating box (outboard propulsion units [B63H 20/00](#)) }
- 35/68 . . for towing
- 35/70 . . for pushing
- 35/71 . Canoes, kayaks or the like { (collapsible, foldable, inflatable or like vessels [B63B 7/00](#)) }
- 2035/715 . . {Accessories specially adapted for kayaks, canoes, or the like, other than paddles or footrests, e.g. seats, detachable rudders, detachable propulsion means or sailing rigs}
- 35/73 . Other vessels or like floating structures for pleasure or sport
- 35/731 . . {Waterscooters}
- 35/732 . . {House boats}
- 2035/734 . . {Racing rowing boats, i.e. light, long, narrow racing boats propelled by rowing using oars or sculls; Accessories therefor, other than means for effecting propulsion}
- 2035/735 . . {Towed structures, the towing member, e.g. tow-rope, being connected to the towed structure}
- 2035/737 . . {for particular use, not otherwise provided for}
- 2035/738 . . . {for hunting, or fishing}
- 35/74 . . Body supporting buoyant devices with seat; {and bathing boats}
- 35/76 . . . Ring-shaped buoyant member
- 35/78 . . . U-shaped buoyant member
- 35/79 . . Surf-boards, e.g. sailboards
- 2035/7903 . . . {Body-boards, i.e. surfboards specially adapted for use by users in prone position; Planing members attachable to, or held by body-surfers}
- 35/7906 . . . {Construction or shape of the boards}
- 35/7909 . . . . {characterised by the arrangement of constructive parts made predominantly of plastics, e.g. layers}
- 35/7913 . . . . {inflatable}
- 35/7916 . . . . {sectionalised}
- 35/792 . . . . {catamaran-shaped ([B63B 35/7923](#) takes precedence)}



35/7923	. . . . {with hydrofoils ( <a href="#">hydrofoils per se B63B 1/24</a> )}	<b>38/00</b>	<b>Vessels or like floating structures not otherwise provided for</b> (vessels characterised by load-accommodating arrangements <a href="#">B63B 25/00</a> ; fire-extinguishing vessels <a href="#">A62C 29/00</a> ; submarines, mine-layers or mine-sweepers <a href="#">B63G</a> ; large containers for use in or under water <a href="#">B65D 88/78</a> )
35/7926	. . . . {Fins, keels or steering devices acting on water}	<b>39/00</b>	<b>Equipment to decrease pitch, roll, or like unwanted vessel movements; Apparatus for indicating vessel attitude</b> {(for amphibious vehicles <a href="#">B60F 3/0038</a> )}
35/793	. . . . . {Fixations for fins which do not normally move during sailing, e.g. fixations that can be slidably set before sailing}	39/005	. {Equipment to decrease ship's vibrations produced externally to the ship, e.g. wave-induced vibrations (propulsion mountings for anti-vibration purposes <a href="#">B63H 21/30</a> ; vibration dampers, suppression of vibration in systems <a href="#">F16F</a> )}
35/7933	. . . {Emergency arrangements and equipment; Other accessories ( <a href="#">anti-theft devices using locks E05B 73/007</a> )}	39/02	. to decrease vessel movements by displacement of masses
35/7936	. . . . {Arrangements for the feet of the surfer}	39/03	. . by transferring liquids
2035/794	. . . . {Leashes, i.e. security lines, or tethers connecting a board to the rider, e.g. to a limb; Attachment means therefor}	39/04	. to decrease vessel movements by using gyroscopes directly
35/7943	. . . {Motordriven boards}	39/06	. to decrease vessel movements by using foils acting on ambient water ( <a href="#">constructional aspects of bilge keels B63B 3/44</a> ; {foils mounted on the housing of outboard motors <a href="#">B63H 20/34</a> })
35/7946	. . . {Stowing or transporting arrangements ( <a href="#">transporting on vehicles B60R 9/08</a> )}	39/061	. . {by using trimflaps, i.e. flaps mounted on the rear of a boat, e.g. speed boat}
35/795	. . . {transformable into another vehicle, e.g. sailboat, watercycle}	39/062	. . {the foils being mounted on outriggers or the like, e.g. antidrift hydrofoils for sail boats ( <a href="#">hydrofoils B63B 1/24</a> ; <a href="#">drop keels B63B 41/00</a> )}
35/7953	. . . {Winddriven boards}	2039/063	. . {the foils comprising flexible portions}
2035/7956	. . . . {Masts for winddriven boards; Equipment therefor, other than mastfoot arrangements}	2039/065	. . {the foils being pivotal about an axis substantially parallel to the longitudinal axis of the vessel}
35/7959	. . . . {Mast foot arrangements}	2039/066	. . {the lift generating devices using the Magnus effect}
2035/7963	. . . . . {comprising shock absorbing elements}	2039/067	. . {effecting motion dampening by means of fixed or movable resistance bodies, e.g. by bilge keels}
35/7966	. . . . {Wishbone}	2039/068	. . {the foils having a variable cross section, e.g. a variable camber}
35/7969	. . . . . {Connection to the mast}	39/08	. to decrease vessel movements by using auxiliary jets or propellers ( <a href="#">for steering or dynamic anchoring B63H 25/00</a> )
35/7973	. . . . {Sail arrangements}	39/10	. to decrease vessel movements by damping the waves, e.g. by pouring oil on water
35/7976	. . . . . {Sails pivotally mounted at a mast-tip; Kite-sails ( <a href="#">kites per se B64C 31/06</a> )}	2039/105	. . {by absorption of wave energy, e.g. by structured, wave energy absorbing hull surfaces}
35/7979	. . . . . {Control means for kite-sails; Harnesses for connecting kite-sails to a user, e.g. of quick release type}	39/12	. for indicating draught or load
35/7983	. . . . . {Sails with detachable sections, e.g. to change the sail area}	39/14	. for indicating inclination or duration of roll
2035/7986	. . . . . {Clew trimmers, i.e. mechanisms or arrangements for trimming or positioning the clew of the sail, or for tensioning the outhaul}	<b>41/00</b>	<b>Drop keels, e.g. centre boards or side boards ; Collapsible keels, or the like, e.g. telescopically; Longitudinally split hinged keels</b> (keels integral with hull <a href="#">B63B 3/38</a> ; foils or keels on surf-boards <a href="#">B63B 35/7906</a> ; stabilising foils <a href="#">B63B 39/06</a> )
35/7989	. . . . . {Devices to tension the luff of the sail}	2041/003	. {Collapsible keels, or the like, e.g. telescopically; Longitudinally split hinged keels}
35/7993	. . . . {Harnesses or handgrips}	2041/006	. . {Telescopically collapsible keels}
35/7996	. . . . . {with elastic connection to the wishbone}	<b>43/00</b>	<b>Improving safety of vessels, e.g. damage control, not otherwise provided for</b> ( <a href="#">fire-fighting in ships A62C 3/10</a> )
35/81	. . Waterskis; Watersledges	2043/003	. {Arrangements of emergency exits, e.g. for escape from engine rooms}
35/811	. . . {with means for additional lift by provision of hollow bodies}	2043/006	. {Methods or installations specially adapted for detecting ingress of ambient water, e.g. leak detectors}
35/812	. . . {Bindings}		
2035/813	. . . {Fins, keels, or the like water guiding means; Arrangements thereof on waterskis}		
35/815	. . . {Towing devices}		
35/816	. . . . {Connection of the tow to the boat; using winches ( <a href="#">winches per se B66D</a> )}		
35/817	. . . . {Handles}		
2035/818	. . . {Wakeboards, i.e. monoboards for users being towed behind a boat, the board comprising bindings oriented substantially perpendicular to the longitudinal axis of the board}		
35/83	. . Water shoes; Bog shoes		
35/85	. . Accessories not otherwise provided for, e.g. sticks for water skiing		
2035/855	. . . {Equipment or arrangements for generating waves, particularly adapted for surfing, waterskiing, or the like}		

43/02	• reducing risk of capsizing or sinking (by means of watertight doors in bulkheads <a href="#">B63B 43/24</a> )	57/00	<b>Tank {or cargo hold} cleaning specially adapted for vessels (tank cleaning in general <a href="#">B08B 9/08</a>)</b>
43/04	• . by improving stability	2057/005	• {of ballast tanks, e.g. from deposits, biological organisms; Ship-borne installations therefor}
2043/042	• . . {using outboard booms supporting ballast, other than solid ballast or persons, e.g. carrying water-filled bags}	57/02	• by washing
43/045	• . . . {by decreasing the free surface effect of water entered in enclosed decks}	57/04	• by ventilating
2043/047	• . . . {by means of hull shapes comprising a wide hull portion near the design water line, and a slender, buoyancy providing, main hull portion extending towards the bottom}	59/00	<b>Hull protection peculiar to vessels; Cleaning devices peculiar to vessels and integral therewith (cleaning of vehicles in general <a href="#">B60S</a>; other cleaning in general <a href="#">B08B</a>; inhibiting corrosion of metals by anodic or cathodic protection <a href="#">C23F 13/00</a>)</b>
43/06	• . . . using ballast tanks (conduits for emptying or ballasting <a href="#">B63B 13/00</a> )	59/02	• Fenders integral with waterborne vessels or specially adapted therefor, {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 <a href="#">E02B 3/26</a> )
43/08	• . . . by transfer of solid ballast	2059/025	• . {pneumatic, e.g. inflatable}
43/085	• . . . . {the stabilising effect being provided by the weight of a person placed on an outrigger seat swingable around a vertical axis}	59/04	• Preventing hull fouling (anti-fouling paints <a href="#">C09D 5/16</a> )
43/10	• . by improving buoyancy {(amphibious cycles <a href="#">B60F 3/0038</a> )}	59/045	• . {by wrapping the submerged hull or part of the hull with an impermeable sheet (stopping temporarily leaks in hulls with impermeable sheets <a href="#">B63B 43/16</a> )}
43/12	• . . using inboard air containers {or inboard floating members}	59/06	• Cleaning devices for hulls
2043/123	• . . . . {using floaters mounted to the tip of a mast, e.g. inflatable}	2059/065	• . {mounted on land-borne vehicles, e.g. travelling on the bottom of a dry-dock}
2043/126	• . . . . {pneumatic, e.g. inflatable on demand}	59/08	• . of underwater surfaces while afloat ( <a href="#">B63B 59/10</a> takes precedence)
43/14	• . . . using outboard floating members	2059/082	• . . . {the devices being supported on arms or rods}
2043/145	• . . . . {pneumatic, e.g. inflatable on demand}	2059/085	• . . . {the devices being adapted for operation by divers}
43/16	• . . . Temporary equipment for stopping leaks, e.g. collision mats	2059/087	• . . . {the devices being adapted for being pulled across, or along the underwater surface to be cleaned, e.g. by ropes}
43/18	• preventing collision {or grounding}; reducing collision damage {(reducing pollution by collision <a href="#">B63B 25/082</a> )}	59/10	• . using trolleys or the like driven along the surface
2043/185	• . {using shock absorbing telescoping buffers}	69/00	<b>Equipment for shipping not otherwise provided for</b>
43/20	• . Feelers	2201/00	<b>Signalling devices</b>
43/24	• Arrangements of watertight doors in bulkheads	2201/02	• Audible
43/26	• . of sliding type	2201/04	• Illuminating
43/28	• . . with mechanical drive	2201/06	• . by combustion of fluid
43/30	• . . with fluid drive	2201/08	• . Electric light
43/32	• . of non-sliding type	2201/10	• Smoke producing
45/00	<b>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 <a href="#">B60Q</a>; life-buoys, -belts, -jackets, -suits or the like, characterised by signalling means <a href="#">B63C 9/20</a>; lighting devices or systems therefor <a href="#">F21L</a>, <a href="#">F21S</a>)</b>	2201/12	• Reflecting means
2045/005	• {comprising particular electric circuits}	2201/14	• Balloon
45/02	• the devices being intended to illuminate the way ahead or other areas of environments	2201/16	• Radio
45/04	• the devices being intended to indicate the vessel or parts thereof	2201/18	• Sonar
45/06	• the devices being intended to illuminate vessels' decks or interior	2201/20	• Antenna or mast
45/08	• the devices being acoustic	2201/22	• Spread-open chemicals or other products
49/00	<b>Arrangements of nautical instruments or navigational aids (nautical measuring instruments <a href="#">G01C</a>; radio navigation, analogous arrangements using other waves <a href="#">G01S</a>)</b>	2201/24	• by means of bubbles
51/00	<b>Marking of navigation route</b>	2201/26	• signalling anomalies, e.g. rupture of connection
51/02	• with anchored light-ships; by use of lighthouses	2203/00	<b>Communication means</b>
51/04	• with free-floating flares	2203/02	• telephone
		2205/00	<b>Tether</b>
		2205/02	• Having payout means
		2205/04	• . Having means to control payout
		2205/06	• . Reel for tether
		2205/08	• with means for recovering the sunken object
		2207/00	<b>Buoyancy or ballast means</b>
		2207/02	• Variable ballast or buoyancy

2207/04	. Pressure equalising or adjusting	2231/40	. Synthetic materials
<b>2209/00</b>	<b>Energy supply or activating means</b>	2231/42	. . Elastomeric materials
2209/02	. water activated switches	2231/44	. . . Rubber
2209/04	. water activated batteries	2231/46	. . . . Natural rubber or caoutchouc
2209/06	. fluid produced by reaction with water	2231/48	. . . . Synthetic rubber, e.g. silicone rubber, Neoprene, polyurethane
2209/08	. impact with water-surface or -bottom	2231/50	. . Foamed synthetic materials
2209/10	. pyrotechnic means	2231/52	. . Fibre reinforced plastics materials
2209/12	. with time-delay	2231/60	. Concretes
2209/14	. energy generated by movement of the water	2231/62	. . Lightweight concretes
2209/16	. nuclear energy	2231/64	. . Reinforced or armoured concretes
2209/18	. solar energy	2231/66	. . . Fibre reinforced concretes, e.g. synthetic fibre reinforced concretes
2209/20	. wind energy	2231/68	. . Prestressed concretes
<b>2211/00</b>	<b>Applications</b>	2231/70	. Glass
2211/02	. Oceanography	2231/72	. . Hollow glass microspheres
2211/04	. Diving	2231/74	. Bituminous materials or the like
2211/06	. Operation in ice-infested waters	2231/76	. Ice
<b>2213/00</b>	<b>Navigational aids and use thereof, not otherwise provided for in this class</b>	<b>2241/00</b>	<b>Design characteristics</b>
2213/02	. using satellite radio beacon positioning systems, e.g. the Global Positioning System GPS	2241/02	. Design characterised by particular shapes
<b>2221/00</b>	<b>Methods and means for joining members or elements</b>	2241/04	. . by particular cross sections
2221/02	. by welding	2241/06	. . . Circular cross sections
2221/04	. by soldering	2241/08	. . . Polygonal cross sections
2221/06	. by riveting	2241/10	. . by particular three dimensional shapes
2221/08	. by means of threaded members, e.g. screws, threaded bolts or nuts	2241/12	. . . annular or toroidal
2221/10	. using adhesives	2241/14	. . . spherical
2221/12	. by means of hook and loop fasteners	2241/16	. . . polyhedral
2221/14	. by means of zippers or the like	2241/20	. Designs or arrangements for particular purposes not otherwise provided for in this class
2221/16	. by means of ties, ribbons or the like	2241/22	. . for providing redundancy to equipment or functionality of a vessel, e.g. for steering
2221/18	. by sewing, stitching, stapling or the like methods	2241/24	. . for facilitating transport, e.g. hull shape with limited dimensions
2221/20	. Joining substantially rigid elements together by means that allow one or more degrees of freedom, e.g. hinges, articulations, pivots, universal joints, telescoping joints, elastic expansion joints, not otherwise provided for in this class	2241/26	. . . for transport on roads, e.g. hull shape with maximum dimensions for public roads
2221/22	. . by means that allow one or more degrees of angular freedom, e.g. hinges, articulations, pivots, universal joints, not otherwise provided for in this class	2241/28	. . . for airborne transport
2221/24	. . by means that allow one or more degrees of translational freedom, e.g. telescopic joints, not otherwise provided for in this class	<b>2701/00</b>	<b>Building of the ship's hull</b>
<b>2231/00</b>	<b>Material used for some parts or elements, or for particular purposes</b>	2701/02	. Steel construction
2231/02	. Metallic materials	2701/04	. Reinforced concrete construction
2231/04	. . Irons, steels or ferrous alloys	2701/06	. Wood construction; Composite construction
2231/06	. . . Stainless steels	2701/08	. Electric and fusion welding for ships ( <a href="#">welding in general B23K</a> )
2231/10	. . Aluminium or aluminium alloys	2701/10	. Keelsons, floors, double bottoms, tanks, coal bunkers, tunnels, engine and boiler rooms
2231/12	. . Copper or copper alloys	2701/12	. Frames, web frames, deck beams, longitudinal girders, coamings, deck pillars
2231/14	. . . Bronze, e.g. nickel-aluminium bronze	2701/14	. Deck plating, wooden decks for steel ships
2231/16	. . . Brass	2701/16	. Shell plating and bulwarks; Fenders; Gunwales; Bilge keels and other elements fixed to the shell
2231/18	. . Titanium or titanium alloys	2701/18	. Longitudinal and transverse bulkheads made of steel or wood
2231/20	. . Magnesium or magnesium alloys	2701/20	. Stems and keels; Stern frames; Bossings and struts; Propeller guards
2231/28	. . Shape-memory alloys	2701/22	. Lining and panelling in wood or metal; Movable partition walls within accommodation spaces; Insulating walls; Stairs; Windshields on decks ( <a href="#">internal partitions for buildings E04B 2/00</a> )
2231/30	. Magnetic materials	<b>2702/00</b>	<b>Submarines</b>
2231/32	. Vegetable materials or material comprising predominately vegetable material	2702/02	. Equipment for lifting sunken submarines ( <a href="#">Equipment for salvaging sunken vessels or other objects B63C 7/00</a> )
2231/34	. . Wood or wood products		

2702/04	• Arrangements of motors and transmissions in submarines; Propulsion	2722/00	<b>Towing in general</b>
2702/06	• Arrangements for the transportation, drydocking, and testing of submarines ( <a href="#">drydocking B63C 1/00</a> )	2723/00	<b>Miscellaneous equipment for towing</b>
2702/08	• Arrangements for anchoring of submarines	2724/00	<b>Navigation signals, e.g. masthead and side lights, marking of seaways, arrangements of compasses</b>
2702/10	• Miscellaneous arrangement for submarines	2725/00	<b>Engine room signals and arrangements for controlling the main engines from the navigation bridge</b>
2702/12	• Submarines of special construction or fitted with special devices or apparatus; Merchant submarines	2726/00	<b>Miscellaneous signalling devices and draft indicators</b>
2702/14	• Arrangements for detecting and localising submarines ( <a href="#">Acoustic detection G01S</a> , <a href="#">electromagnetic detection G01N</a> )	2727/00	<b>Signalling devices using acoustic or mechanical means</b>
2704/00	<b>Port-holes, windows, doors and other openings in the superstructures</b>	2727/02	• Arrangements for the detection of icebergs, reefs, derelicts, or the like
2705/00	<b>Closets, latrines, swimming pools and washing facilities for ships; Overboard discharges</b>	2728/00	<b>Lifeboats, liferafts, lifesaving floats, etc.</b>
2707/00	<b>Doors and closing means</b>	2729/00	<b>Coastal lifesaving</b>
2708/00	<b>Winches; Capstans</b>	2730/00	<b>Diving suits</b>
2708/02	• Winches and capstans driven by electric or electro-hydraulic means	2730/02	• Resilient suits
2709/00	<b>Tables, chairs and other furniture peculiar to vessels</b>	2731/00	<b>Arrangements for avoiding capsizing and sinking</b>
2710/00	<b>Miscellaneous equipment for ships, e.g. collision mats, rat guards</b>	2732/00	<b>Arrangements for avoiding or reducing collision damage</b>
2711/00	<b>Equipment for watching and measuring the oscillations, the resistance and the movements of ships; Model towing tanks</b>	2733/00	<b>Arrangements for reducing the risk of running aground; Depth sounders</b>
2712/00	<b>Equipment for handling the boats by means of turning davits, i.e. a set formed by the davit, davit foundation, davit drive, boat support, boat guides, boat pulley blocks and winches</b>	2734/00	<b>Loading and unloading ships by ship-mounted means</b>
2712/02	• Equipment for handling the boats by means of swinging davits, i.e. a set formed by the davit, davit foundation, davit drive, boat support, boat guides, boat pulley blocks and winches	2735/00	<b>Miscellaneous shipbuilding-related arrangements and constructions, e.g. pontoons</b>
2713/00	<b>Stowing of the boats, i.e. arrangement, chocks, lashing down and transport of the boats on deck</b>	2736/00	<b>Slipways, shipyard installations and apparatus for launching or hauling-out ships</b>
2714/00	<b>Construction of turning davits, davit foundations and davit drives</b>	2737/00	<b>Dry and floating docks; Cleaning devices for hulls; Drydocking of hull parts; Equipment for dry and floating docks</b>
2714/02	• Construction of swinging davits and other davits and of davit foundation and drives	2738/00	<b>Re-floating of ships and sunken objects</b>
2715/00	<b>Hydraulic and pneumatic steering gear</b>	2738/02	• Salvaging of ships by means of floats
2716/00	<b>Steam-powered steering gear</b>	2738/04	• Salvaging of ships using cofferdams
2717/00	<b>Hand-operated steering gears; Combined hand and steam-powered steering gears</b>	2738/06	• Salvaging of ships using diving bells
2718/00	<b>Components of the steering gears, e.g. steering wheels, telemotors, driving chains, shock dampers, quadrants, arrangements to block the rudder, brakes, rudder stops</b>	2738/08	• Salvaging of ships by other means, e.g. using balloons or frozen blocks
2719/00	<b>Arrangements for slowing-down of ships by means of side flaps and for creating a lateral resistance for manoeuvring</b>	2738/10	• Floating docks for lifting ships
2721/00	<b>Automatic steering apparatus, non-electric</b>	2738/12	• Attaching floats and chains to the hull by mechanical means; Lifting chains
2721/02	• Auxiliary steering gear and other steering arrangements	2739/00	<b>Boats or canoes in general; Construction and outfitting</b>
		2741/00	<b>Manual propulsion; Paddles</b>
		2742/00	<b>Anti-torpedo nets and shields for ships; Anti-submarine nets and devices for the protection of harbours and means for the destruction thereof</b>
		2742/02	• Arrangements on ships for reducing danger due to torpedo or sea mine explosions
		2743/00	<b>Paddle wheels for ships in general</b>
		2744/00	<b>Stern paddle wheels</b>
		2745/00	<b>Propellers for ships in general (<a href="#">construction of air propellers B64C</a>)</b>



## B63B

- 2745/02     • Contra-propellers and other water guiding installations in front of or behind the rotating propeller ([rudders with water guiding surfaces B63H 25/00](#))
- 2745/04     • Propulsive devices, e.g. rotating cylinders, paddle wheels; Rudders or stabilising surfaces using Magnus effect
- 2746/00     Propellers with air exhaust, e.g. hollow propellers for ships**
- 2747/00     Arrangements of propellers and other propulsive devices on ships**
- 2747/02     • Propellers driven by outboard motors placed astern or on the sides of the ship
- 2748/00     Propeller hubs and blade connections**
- 2749/00     Propeller shafts and paddle-wheel shafts; Shaft liners**
- 2750/00     Propeller shaft bearings, thrust bearings**
- 2751/00     Propulsion of ships using the reaction effect of a water jet**
- 2752/00     Propulsion of ships using the reaction effect of steam jets or gas jets**
- 2753/00     Propulsion of ships using the reaction effect of gas explosions**
- 2754/00     Propulsive flaps**
- 2755/00     Electric drives for the propulsive devices**
- 2756/00     Steam reciprocating engine drives for the propulsive devices**
- 2757/00     Steam turbine drives for the propulsive devices**
- 2758/00     Internal combustion engine drives for the propulsive devices**
- 2759/00     Other means for driving marine propulsion devices; Arrangements for synchronising two or more engines**
- 2760/00     Marine drive governors that are influenced by the movements of the ship**
- 2770/00     Apparatus or methods specially adapted for use on marine vessels, for handling power plant or unit liquids, e.g. lubricants, coolants, fuels or the like**