

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.

1/00	Hydrodynamic or hydrostatic features of hulls or of hydrofoils (keels B63B 3/38 ; determining hydrodynamic or hydrostatic features B63B 9/00 ; hulls peculiar to submarines B63B 3/13 ; decreasing pitch, roll or like unwanted vessel movements by using foils or acting on ambient water B63B 39/06)	2001/128	. . . . {comprising underwater connectors between the hulls}
		1/14	. . . the hulls being interconnected resiliently {or having means for actively varying hull shape or configuration (collapsible, foldable, inflatable or like vessels B63B 7/00)}
2001/005	. {Deflectors for spray, e.g. for guiding spray generated at the bow of a planing vessel underneath the hull}		WARNING Not complete, pending a reorganisation, see B63B 1/12 and subgroups
1/02	. deriving lift mainly from water displacement (B63B 1/16 takes precedence)	2001/145	. . . . {having means for actively varying hull shape or configuration}
1/04	. . with single hull	1/16	. deriving additional lift from hydrodynamic forces
1/041	. . . {with disk-shaped hull}	1/18	. . of hydroplane type
1/042	. . . {the underpart of which being partly provided with channels or the like, e.g. catamaran shaped}	2001/183	. . . {having non-floating planing surfaces, e.g. attached skis or plate-shaped bodies}
2001/044	. . . {with a small waterline area compared to total displacement, e.g. of semi-submersible type}	2001/186	. . . {Sponsons; Arrangements thereof}
2001/045	. . . {with means for actively varying hull shape or configuration, e.g. for varying hydrodynamic characteristics}	1/20	. . . having more than one planing surface (B63B 1/22 takes precedence)
			WARNING Not complete, pending a reorganisation, see B63B 1/042
1/047	. . . {with spherical hull or hull in the shape of a vertical ring (Freely movable rolling hoops, e.g. gyro wheels for exercising A63B 19/02)}	2001/201	. . . . {divided by longitudinal chines}
1/048	. . . {with hull extending principally vertically}	2001/202	. . . . {divided by transverse steps}
1/06	. . . Shape of fore part	2001/203	. . . . {arranged in semi-catamaran configuration}
1/063	. . . . {Bulbous bows}	2001/204	. . . . {arranged on multiple hulls}
2001/066	. . . . {Substantially vertical stems}	2001/205	. . . . . {the hulls being interconnected rigidly}
1/08	. . . Shape of after part	2001/206	. . . . . {comprising two hulls, e.g. catamarans}
1/10	. . with multiple hulls	2001/207	. . . . . {comprising more than two hulls}
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}	2001/208	. . . . . {comprising three hulls, e.g. trimarans}
		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 B63G 8/18)}
	WARNING Not complete, see B63B 1/12 and subgroups		WARNING This group is pending a reorganisation, also documents covered by group B63B 1/26 are within this group
1/12	. . . the hulls being interconnected rigidly {(B63B 1/107 takes precedence)}	1/242	. . . {Mounting, suspension of the foils (B63B 1/30 takes precedence)}
1/121	. . . . {comprising two hulls (B63B 1/107 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 B63H 5/00 , propulsion by jets in general B63H 11/00)}
1/125	. . . . . {comprising more than two hulls (B63B 1/107 takes precedence)}		
2001/126	. . . . . {comprising more than three hulls}		

- 1/248 . . . {Shape, hydrodynamic features, construction of the foil}
- 1/26 . . . having more than one hydrofoil ([B63B 1/28 takes precedence](#))
- WARNING**
Not complete, pending a reorganisation, see [B63B 1/24](#) and subgroups
- 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 ([B63B 1/244 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	9/02	• Using towing tanks or model basins for designing {arrangements in or on ship testing tanks or water tunnels G01M 10/00 }
5/14	• made predominantly of concrete, e.g. reinforced	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}
5/16	• • monolithic	9/04	• Rebuilding ships, e.g. increasing tonnage
5/18	• • built-up from elements	9/06	• Methods of building hulls
5/20	• • • in combination with elements of other materials	9/062	• • {by folding (foldable vessels B63B 7/00)}
5/22	• • with reinforcing members external to shell	9/065	• • {for floating offshore platforms (grounded platforms E02B 17/00)}
5/24	• made predominantly of plastics {(surf boards B63B 35/7909)}	WARNING	
2005/242	• • {made of a composite of plastics and other structural materials, e.g. wood or metal}	Not complete, see B63B 21/50 , B63B 35/003 , B63B 35/44	
2005/245	• • • {made of a composite of plastics and metal}	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}
2005/247	• • • {made of a composite of plastics and wood}	9/08	• Determining vessel properties with respect to stability or balance
7/00	Collapsible, foldable, inflatable or like vessels (foldable pontoons B63B 35/36)	11/00	Interior subdivision of hulls (bulkhead space construction B63B 3/56)
2007/003	• {with foldable members}	11/02	• Arrangement of bulkheads, e.g. defining cargo spaces
2007/006	• {comprising nestable elements}	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 B63B 17/0027 ; } cleaning of tanks B63B 57/00)
7/02	• comprising only rigid parts	WARNING	
7/04	• • sectionalised	Not complete pending reclassification; see also B63B 25/08 and subgroups	
7/06	• having parts of non-rigid material	11/06	• Propeller-shaft tunnels
2007/065	• • {comprising flexible pockets for receiving removable floaters}	13/00	Conduits for emptying or ballasting; Self-bailing equipment; Scuppers (draining means for hatches B63B 19/26; centrifugal bilge-water separators B04; {arrangements of installations for treating ballast water B63J 4/002; } pipes in general F16L)
7/08	• • inflatable	2013/005	• {Sea chests}
7/082	• • • {having parts of rigid material}	13/02	• Ports for passing water through vessels' sides {jet propulsors with clogging prevention means B63H 11/01 }
7/085	• • • {Accessories or mountings specially adapted therefor, e.g. seats, sailing kits, motor mountings}	15/00	Superstructures {, deckhouses, wheelhouses or the like}; Arrangements or adaptations of masts {or spars, e.g. bowsprits} (loading or unloading equipment B63B 27/00; masts and staying in general E04H; sails, running rigging B63H; {mounting ladders or the like on masts B63B 29/205})
7/087	• • • • {Motor mountings, e.g. transom panels for outboard motors}	2015/0008	• {Bowsprits}
9/00	Methods of designing, building, maintaining, converting, refitting, repairing, or determining properties of vessels, not otherwise provided for (shuttering for building concrete vessels E04G)	2015/0016	• {Masts characterized by mast configuration or construction}
9/001	• {Methods of designing, or determining properties of vessels by means of analytical modelling, e.g. computational}	2015/0025	• • {Bipodded masts, e.g. A-type masts}
WARNING		2015/0033	• • {Multipodded masts, e.g. tripod-type}
Not complete pending a reorganisation, see B63B 9/00 and G06F 17/50		2015/0041	• • {Telescoping masts}
9/002	• • {using fluid dynamics analysis, e.g. computational fluid dynamics}	2015/005	• • {with means for varying mast position or orientation with respect to the hull}
WARNING		2015/0058	• • • {comprising active mast inclination means}
Not complete pending a reorganisation, see B63B 9/00 and G06F 17/50		2015/0066	• • • {Inclinable masts with passive righting means, e.g. counterbalancing means}
9/003	• • {using structure analysis, e.g. finite elements}	2015/0075	• • • {with mast foot adapted for being moved, e.g. athwartship}
WARNING			
Not complete pending a reorganisation, see B63B 9/00 and G06F 17/5018			
2009/005	• {Methods for dismantling hulls, or elements of ships or other waterborne vessels, e.g. floating offshore structures}		
2009/006	• • {for dismantling hulls, or structural elements}		
2009/007	• • {for unshipping or dismantling equipment or non-structural elements, e.g. propellers, rudders or prime movers}		
2009/008	• {Methods for repairing hulls or structural elements of ships or other waterborne vessels, e.g. floating offshore structures}		

15/0083	. {Masts for sailing ships or boats}	17/023	. . {Hatchway tents, e.g. for weather protection of cargo during loading or unloading}
2015/0091	. . {comprising means for silencing rope noise}	2017/026	. . {Rigid awnings, or sunroofs}
15/02	. Staying of masts or of other superstructures	17/04	. Stanchions; Guard-rails; {Bulwarks or the like}
17/00	Vessel parts, details, or accessories, not otherwise provided for ({vehicle fittings for preventing or indicating unauthorised use or theft of vehicles in general B60R 25/00 ; propeller guards, line cutters or other means for protecting propellers or rudders B63H 5/165 ; protection of power legs of outboard propulsion units B63H 20/36 ; locking devices for boats, surfboards or parts or accessories thereof E05B 73/007 })	2017/045	. . {Bulwarks, or the like}
	WARNING	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)
	Not complete pending a reorganisation; for documents concerning protective caps, or anti-theft devices other than using keys, see B63J 99/00	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)
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}	2019/0007	. {Ship's windows}
17/0018	. {Arrangements or devices specially adapted for facilitating access to underwater elements, e.g. to propellers (retractable propellers B63H 5/125 ; tilting outboard propulsion units B63H 20/08); Externally attached cofferdams or the like (caissons adapted to laying foundations E02D 23/00 - E02D 27/00)}	2019/0015	. . {Bull's eyes, or the like ship's windows}
	WARNING	2019/0023	. . . {Pivotal bull's eyes with central pivoting axis}
	Documents concerning "externally attached cofferdams or the like" are not complete, pending a reorganisation; see also B63B 9/00	2019/003	. . . {Pivotal bull's eyes with peripheral hinge axis}
17/0027	. {Tanks for fuel or the like (constructional features of bunkers B63B 11/04); Accessories therefor, e.g. tank filler caps (fuel tanks for vehicles in general B60K 15/03 ; cargo tanks B63B 25/08 ; cleaning of tanks B63B 57/00 ; handling of liquids for use in power plants B63H 21/38)}	2019/0038	. . {Ship's windows, other than bull's eyes}
	WARNING	2019/0046	. . . {Fixed ship's windows, other than bull's eyes}
	Not complete pending reclassification; see also B63B 25/08 and subgroups	2019/0053	. {Locking means for ports, doors, windows, covers, or the like, e.g. providing for watertight closure when locked}
17/0036	. . {Arrangements for minimizing pollution by accidents (associated with cargo tanks B63B 25/082)}	2019/0061	. . {comprising pivotally supported threaded locking bolts}
2017/0045	. {Caps, hoods, or the like devices for protective purposes, not otherwise provided for}	2019/0069	. . {comprising movable positive fit locking members, e.g. swivelling locking clips, or dogs}
2017/0054	. {Rests or supports for movable ship-borne equipment}	2019/0076	. . . {comprising multiple positive fit locking members arranged for simultaneous locking action}
2017/0063	. . {Boom rests, i.e. props for main sail booms, derricks, or the like}	2019/0084	. . . . {with mechanical drive for effecting simultaneous locking action}
2017/0072	. {Seaway compensators}	2019/0092	. {Fly screens, or the like protection devices against insects, e.g. for insertion into bull's eyes openings}
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)}	19/02	. Clear-view screens; {Windshields (canopies connected to windshields B63B 17/02)}
2017/009	. {Wave breakers, breakwaters, splashboards, or the like}	19/04	. Air-catching equipment related to windows or port-holes (ventilation B63J 2/00)
17/02	. Awnings {, including rigid weather protection structures, e.g. sunroofs; Tarpaulins; Accessories for awnings or tarpaulins}	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)	21/227	. . {Stowing the anchor inside the vessel by hauling-in through an aperture in the side walls, stern or bottom}
	WARNING	21/24	. Anchors
	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	21/243	. . {foldable or capable of being disassembled}
2021/001	. {Mooring bars, yokes, or the like, e.g. comprising articulations on both ends}		WARNING
2021/002	. . {Yokes, or the like}		this group is pending a reorganisation, also documents covered by group B63B 21/36 are within this group
2021/003	. {Mooring or anchoring equipment, not otherwise provided for}	2021/246	. . {comprising elements yielding at a predetermined load, e.g. shear bolts}
2021/004	. . {Quick release elements in mooring connections}	21/26	. . securing to bed
2021/005	. . {Resilient passive elements to be placed in line with mooring or towing chains, or line connections, e.g. dampers or springs}	2021/262	. . . {by drag embedment}
2021/006	. . {Suction cups, or the like, e.g. for mooring, or for towing or pushing}	2021/265	. . . {by gravity embedment, e.g. by dropping a pile-type anchor from a certain height}
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}	2021/267	. . . {by penetration of anchor into the sea bed using water jets, e.g. by ground or sand fluidisation}
2021/008	. . {Load monitors}	21/27	. . . by suction
2021/009	. . {Drift monitors}	21/28	. . . driven in by explosive charge
21/02	. Magnetic mooring equipment	21/29	. . . by weight, e.g. flukeless weight anchors
21/04	. Fastening or guiding equipment for chains, ropes, hawsers, or the like {(means for fastening cables or ropes in general F16G 11/00)}	21/30	. . rigid when in use {(B63B 21/28 takes precedence)}
21/045	. . {T-shaped cleats}	21/32	. . . with one fluke
21/06	. . Bollards	21/34	. . . with two or more flukes
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 })	21/36	. . . . foldable
21/10	. . Fairleads		WARNING
21/12	. . Rat guards		Not complete, pending a reorganisation, see B63B 21/243
21/14	. . Hawse-holes; Hawse-pipes; Hawse-hole closures	21/38	. . pivoting when in use {(B63B 21/28 takes precedence)}
21/16	. Using winches (winches per se B66D)	21/40	. . . with one fluke
21/18	. Stoppers for anchor chains {(anchor capstans B66D 1/72)}	21/42	. . . . of ploughshare type
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 }	21/44	. . . with two or more flukes
	WARNING	21/46	. . with variable, {e.g.} sliding, connection to the chain, {especially for facilitating the retrieval of the anchor}
	Not complete pending a reorganisation, see B63B 21/00	21/48	. . Sea-anchors; Drogues
2021/203	. . {Mooring cables or ropes, hawsers, or the like; Adaptations thereof}	21/50	. Anchoring arrangements {or methods} for special vessels, e.g. for floating drilling platforms or dredgers
2021/206	. . {Weights attached to mooring lines or chains, or the like; Arrangements thereof}	2021/501	. . {by means of articulated towers, i.e. slender substantially vertically arranged structures articulated near the sea bed}
21/22	. Handling or lashing of anchors	21/502	. . {by means of tension legs}
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}	2021/504	. . . {comprising suppressors for vortex induced vibrations}
2021/225	. . {Marker buoys for indicating position of an anchor, or for providing a line connection between the anchor and the water surface}	2021/505	. . {Methods for installation or mooring of floating offshore platforms on site}
		21/507	. . {with mooring turrets}
			WARNING
			this group and its subgroup are pending a reorganisation, also documents covered by group B63B 21/34 are within this group, and its subgroups
		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 })	22/025	• • • {and comprising a restoring force in the mooring connection provided by means of weight, float or spring devices}
2021/563	• • {Pushing equipment}	22/026	• • • {and with means to rotate the vessel around the anchored buoy (turrets B63B 21/507)}
2021/566	• • {comprising running ropes or chains, e.g. endless, driven by ground-borne equipment}	2022/028	• • {submerged, e.g. fitting into ship-borne counterpart with or without rotatable turret, or being releasably connected to moored vessel}
21/58	• • Adaptations of hooks for towing; Towing-hook mountings (hooks in general F16B)	22/04	• {Fixations or other} anchoring arrangements
21/60	• • • Quick releases	22/06	• • with means to cause the buoy to surface in response to a transmitted signal {(B63B 22/023 takes precedence)}
21/62	• • characterised by moving of more than one vessel (rigid interconnections between pontoons B63B 35/38)	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
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 <i>per se</i> , e.g. vehicles, rails, <i>see the relevant classes</i>)	22/10	• • • Water soluble or water weakened means, i.e. buoy released by buoy-to-object securing means being destroyed on contact with water
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)	22/12	• • • the surfacing of the buoy being assisted by a gas released or generated on submergence of the buoy
21/663	• • • {Fairings}	22/14	• • • Buoy-to-object securing means responsive to hydrostatic pressure
2021/666	• • • {for intermittent towing}	22/16	• specially adapted for marking a navigational route (signalling or lighting devices B63B 45/00)
22/00	Buoys ({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 })	22/163	• • {comprising a bell or other audible signal}
22/003	• {adapted for being launched from an aircraft or water vehicle; e.g. with brakes deployed in the water}	22/166	• • {comprising a light}
2022/006	• {specially adapted for measuring or watch purposes}	22/18	• having means to control attitude or position, e.g. reaction surfaces or tether
22/02	• specially adapted for mooring a vessel	22/20	• • Ballast means
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)}	22/22	• Inflatable buoys with gas generating means (B63B 22/12 takes precedence)
	WARNINGS	22/24	• container type, i.e. having provision for the storage of material
	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 B63B 22/26 .	22/26	• • having means to selectively release contents, e.g. swivel couplings ({ B63B 22/021 takes precedence; } arrangements between ships and off-shore structures for loading or unloading, using pipe lines B63B 27/34 ; pipe joints or couplings, in general F16L)
	2. This group and its subgroups are pending a reorganisation, also documents covered by groups B63B 27/30 and B63B 27/34 are within this group and its subgroups.		WARNING
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)}		Not complete, pending a reorganisation; see B63B 22/021 and B63B 22/24
	WARNING	22/28	• • submerged when not in use {(B63B 22/023 takes precedence)}
	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 B63B 22/28		WARNING
			Not complete, pending a reorganisation; see B63B 22/023 and B63B 22/24
		23/00	Equipment for handling lifeboats or the like
		23/02	• Davits, i.e. devices having arms for lowering boat by cables or the like
		23/04	• • with arms pivoting on substantially horizontal axes, e.g. gravity type
		23/06	• • • with actual pivots
		23/08	• • • • the arms being articulated
		23/10	• • • • with positive drive of the arms
		23/12	• • • with simulated pivots
		23/14	• • • • using linkages
		23/16	• • • • using guide tracks
		23/18	• • with arms pivoting on substantially vertical axes

23/20	. . . Davits with single arms (cranes in general B66C)	2025/027	. . . {Ore-bulk-oil carriers}
23/22	. . . . Slings or the like therefor	25/04	. . solid
23/24	. . . Slewing equipment therefor	25/06	. . . for cereals
23/26	. . with rectilinear translation of boat before lowering	25/08	. . fluid {(constructional features of bunkers B63B 11/04 ; tanks for fuel or the like not forming bunkers B63B 17/0027)}
23/28	. Devices for projecting or releasing boats for free fall	WARNING	
23/30	. Devices for guiding boats to water surface	Documents in B63B 25/08 and subgroups concerning bunkers and other tanks for fuel or the like are in the process of being reclassified to B63B 11/04 and B63B 17/0027	
23/32	. . Rigid guides, e.g. having arms pivoted near waterline	25/082	. . . {Arrangements for minimizing pollution by accidents (associated with tanks for fuel or the like not forming bunkers B63B 17/0036)}
23/34	. . Guiding means for lowering by cables, e.g. for listing ships	2025/085	. . . {comprising separation membranes}
23/36	. . . Skid fenders	2025/087	. . . {comprising self-contained tanks installed in the ship structure as separate units}
23/38	. Transport of boats to davits or the like	25/10	. . . open to ambient air
23/40	. Use of lowering or hoisting gear	25/12	. . . closed
23/42	. . with braking equipment	25/14	. . . . pressurised
23/44	. . . on the ship	25/16	. . . . heat-insulated (insulating panelling B63B 3/68 ; heating or cooling B63J)
23/46	. . . in the boat	25/18	. Detachable decks
23/48	. . Using winches for boat handling (winches per se B66D)	25/20	. . for motor vehicles or the like
23/50	. . . with tensioning gear	25/22	. for palletised articles
23/52	. . . with control of winches from boat	25/24	. Means for preventing unwanted cargo movement, e.g. dunnage
23/54	. . with trimming equipment	2025/245	. . {of wheeled cargo, e.g. vehicle retainers}
23/56	. . . controlled from boat	25/26	. for frozen goods
23/58	. . with tackle engaging or release gear	25/28	. for deck loads
WARNING		2025/285	. . {Means for securing deck containers against unwanted movements}
this group is pending a reorganisation, also documents covered by group B63B 23/70 are within this group		27/00	Loading or unloading cargo or passengers (self-discharging barges or lighters B63B 35/30; shore-based B65G {elevators, escalators or moving walkways per se B66B; floating cranes B66C 23/52; loading or unloading devices per se, see the relevant subclasses, e.g. B65G, B66C, B67D})
23/60	. . Additional connections between boat and davits	WARNING	
23/62	. Fastening or storing of boats on deck	The scope of this group is broader than the scope of the corresponding IPC group, and includes the scope of the IPC2 subgroups B63B 27/02 , B63B 27/06 , and B63B 27/20	
23/64	. . Lashings; Covers	27/02	. {with intermittent action}
23/66	. . Blocks; Chocks	27/04	. . Ships' derricks, i.e. employing ships' masts (derricks in general B66C)
23/68	. . . for stacking boats	27/06	. . . {with slewing force exerted at pivoted end}
23/70	. Condition-responsive handling equipment, e.g. automatic release of boat from lowering tackle upon contact with water	27/08	. . using winches (winches per se B66D)
WARNING		27/10	. . using cranes (cranes per se B66C)
Not complete, pending a reorganisation, see B63B 23/58		27/12	. . . of gantry type
25/00	Load-accomodating arrangements, e.g. stowing, trimming; Vessels characterised thereby (trimming otherwise than by cargo division, e.g. by use of ballast B63B 43/06, B63B 43/08; constructive aspects of cargo spaces B63B 11/00; hatches, hatchways B63B 19/12)	27/14	. . Ramps; Gangways or other outboard ladders (inboard ladders B63B 29/20 {; land-based bridges giving access to ships E01D 15/24 }); {Pilot lifts}
25/002	. {for goods other than bulk goods (detachable decks B63B 25/18 ; palletised articles B63B 25/22 ; frozen goods B63B 25/26 ; deck loads B63B 25/28)}	2027/141	. . . {telescopically extendable}
25/004	. . {for containers (B63B 25/28 takes precedence)}	27/143	. . . {Ramps}
25/006	. . {for floating containers, barges or other floating cargo (for transporting marine vessels B63B 35/40)}	2027/145	. . . . {Inflatable ramps}
25/008	. . {for wheeled cargo (B63B 25/20 takes precedence)}	27/146	. . . {Pilot ladders or similar outboard ladders, e.g. bathing ladders; Pilot lifts}
25/02	. for bulk goods	2027/148	. . . . {Pilot lifts}
2025/022	. . {comprising flexible receptacles for bulk cargo, e.g. bladders for liquid cargo inserted in tanks}		
2025/025	. . {Vessels adapted for particular combinations of bulk cargo}		

27/16	<ul style="list-style-type: none"> using lifts or hoists (elevators per se B66B {Pilot lifts B63B 27/14}) 	2029/022	<ul style="list-style-type: none"> {Bathing platforms}
2027/165	<ul style="list-style-type: none"> {Deployment or recovery of underwater vehicles using lifts or hoists} 	29/025	<ul style="list-style-type: none"> {Modular or prefabricated cabins}
27/18	<ul style="list-style-type: none"> using cableways, e.g. with breeches-buoys (cableways per se B65G) <p>WARNING</p> <p>this group is pending a reorganisation, also documents covered by group B63B 27/32 are within this group</p>	2029/027	<ul style="list-style-type: none"> {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}
27/20	<ul style="list-style-type: none"> {with continuous action} 	29/04	<ul style="list-style-type: none"> Furniture peculiar to vessels (floatable furniture B63C 9/30)
27/22	<ul style="list-style-type: none"> of conveyors, e.g. of endless-belt or screw-type (arrangements of devices with throwing action B63B 27/26; arrangements of chutes B63B 27/28; conveyors per se B65G) 	2029/043	<ul style="list-style-type: none"> {Seats; Arrangements thereof on vessels}
27/24	<ul style="list-style-type: none"> Loading or unloading fluids <p>WARNING</p> <p>this group is pending a reorganisation, also documents covered by group B63B 27/25 are within this group</p>	2029/046	<ul style="list-style-type: none"> {Tables, e.g. foldable or stowable}
27/25	<ul style="list-style-type: none"> {Arrangement of ship-based loading or unloading equipment} for fluidised bulk material <p>WARNING</p> <p>Not complete, pending a reorganisation, see B63B 27/24</p>	29/06	<ul style="list-style-type: none"> Fastening to floors
27/26	<ul style="list-style-type: none"> using devices with throwing action (devices with throwing action per se B65G) 	29/08	<ul style="list-style-type: none"> Storm guards on tables, e.g. fiddles
27/28	<ul style="list-style-type: none"> using chutes (chutes per se B65G) 	29/10	<ul style="list-style-type: none"> Berths; Mounting ladders therefor
27/30	<ul style="list-style-type: none"> {Arrangement of ship-based loading or unloading equipment} for transfer at sea between ships or between ships and off-shore structures <p>WARNING</p> <p>Not complete, pending a reorganisation, see B63B 22/021, B63B 35/44, and subgroups</p>	29/12	<ul style="list-style-type: none"> Self-levelling mountings <p>WARNING</p> <p>this group is pending a reorganisation, also documents covered by group B63B 35/50 and subgroups are in this group</p>
27/32	<ul style="list-style-type: none"> using cableways <p>WARNING</p> <p>Not complete, pending a reorganisation, see B63B 27/18</p>	29/14	<ul style="list-style-type: none"> Closet or like flushing arrangements; Washing or bathing facilities peculiar to ships
27/34	<ul style="list-style-type: none"> using pipe-lines ({Anchoring arrangements for special vessels with mooring turrets B63B 21/507; Buoys specially adapted for mooring a vessel and for transferring fluids, e.g. liquids B63B 22/021}) <p>WARNING</p> <p>Not complete, pending a reorganisation, see B63B 21/507, B63B 22/021, B63B 35/44 and subgroups</p>	2029/145	<ul style="list-style-type: none"> {Collapsible or non-permanent privacy rooms, e.g. closets or changing rooms}
27/36	<ul style="list-style-type: none"> {Arrangement of ship-based loading or unloading equipment} for floating cargo (devices for facilitating retrieval of floating objects per se B66C 13/02) 	29/16	<ul style="list-style-type: none"> Soil water discharges (arrangements of installations for treating waste water or sewage B63J 4/006)
29/00	Accommodation for crew or passengers not otherwise provided for	29/18	<ul style="list-style-type: none"> Arrangements or adaptations of swimming pools
29/02	<ul style="list-style-type: none"> Cabins or other living spaces; Construction or arrangement thereof 	29/20	<ul style="list-style-type: none"> Arrangements or adaptations of ladders (mounting ladders for berths B63B 29/10)
		29/205	<ul style="list-style-type: none"> {on masts}
		29/22	<ul style="list-style-type: none"> Galleys
		35/00	Vessels or like floating structures adapted for special purposes (vessels characterised by load-accommodating arrangements B63B 25/00 ; fire-fighting vessels A62C 29/00 ; submarines, mine-layers or mine-sweepers B63G ; large containers for use in or under water B65D 88/78 ; {Advertising on ships or other floating means G09F 21/18 })
		2035/001	<ul style="list-style-type: none"> {for beach loading or unloading, e.g. landing crafts}
		2035/002	<ul style="list-style-type: none"> {for inland waters, e.g. for use on canals or rivers}
		35/003	<ul style="list-style-type: none"> {for transporting very large loads, e.g. offshore structure modules (construction methods for artificial islands mounted on piles E02B 17/00; for transporting marine vessels B63B 35/40; docks B63C 1/00)}
		2035/004	<ul style="list-style-type: none"> {Passenger vessels, e.g. cruise vessels or the like}
		2035/005	<ul style="list-style-type: none"> {Search and rescue [SAR] vessels}
		2035/006	<ul style="list-style-type: none"> {Unmanned surface vessels, e.g. remotely controlled}
		2035/007	<ul style="list-style-type: none"> {autonomously operating}
		2035/008	<ul style="list-style-type: none"> {remotely controlled}
		2035/009	<ul style="list-style-type: none"> {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}
		35/03	<ul style="list-style-type: none"> Pipe-laying vessels (laying pipes under water F16L 1/12)
		35/04	<ul style="list-style-type: none"> Cable-laying vessels
		35/06	<ul style="list-style-type: none"> for moving cable-ends from ship to shore

- 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

NOTE

{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 [B63B 35/00](#), e.g. floating buildings, stores, drilling platforms or workshops for operation in ice infested waters are also classified in [B63B 35/44](#)}

WARNINGS

1. Not complete, pending a reclassification, see also [B63B 35/00](#) and subgroups, e.g. [B63B 35/44](#).
2. This group is pending a reorganisation, also documents covered by group [B63B 35/083](#) are within this group

- 35/083 . . {Ice-breakers ([B63B 35/10](#), [B63B 35/12](#) take precedence)}

WARNING

Not complete, pending a reorganisation, see [B63B 35/08](#)

- 35/086 . . {Vessels for displacing icebergs, or related methods (tugs in general [B63B 35/66](#))}
- 35/10 . . having forced pitching or rolling equipment
- 35/12 . . having ice-cutters
- 35/14 . Fishing vessels (fishing [A01K 69/00](#) - [A01K 97/00](#))
- 35/16 . . Trawlers
- 35/18 . . . adapted to dragging nets aboard
- 35/20 . . . adapted to hoisting nets aboard
- 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](#))}

WARNING

This group and its subgroups are pending a reorganisation, also documents covered by groups [B63B 27/30](#), [B63B 27/32](#) and [B63B 27/34](#) are within this group and its subgroups.

- 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](#))

WARNINGS

1. not complete pending a reorganisation, see for self-levelling landing platforms also [B63B 29/12](#);
2. this group and its subgroup [B63B 35/52](#) are pending a reorganisation, also documents covered by group [B63B 35/53](#) are in this group and its subgroups

35/52	. . Nets, slipways or the like, for recovering aircraft from the water	35/792	. . . . {catamaran-shaped (B63B 35/7923 takes precedence)}
	WARNING	35/7923	. . . . {with hydrofoils (hydrofoils per se B63B 1/24)}
	This group is pending a reorganisation, also documents covered by group B63B 35/53 are within this group.	35/7926	. . . . {Fins, keels or steering devices acting on water}
35/53	. . Floating runways	35/793	. . . . . {Fixations for fins which do not normally move during sailing, e.g. fixations that can be slidably set before sailing}
	WARNING	35/7933	. . . {Emergency arrangements and equipment; Other accessories (anti-theft devices using locks E05B 73/007)}
	Group B63B 35/53 is not complete pending a reorganisation; see also groups B63B 35/50 and B63B 35/52	35/7936	. . . . {Arrangements for the feet of the surfer}
35/54	. Ferries (propulsion of chain ferries B63H)	2035/794	. . . . {Leashes, i.e. security lines, or tethers connecting a board to the rider, e.g. to a limb; Attachment means therefor}
35/56	. Lightships (marking of navigational route B63B 51/00)	35/7943	. . . {Motordriven boards}
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)	35/7946	. . . {Stowing or transporting arrangements (transporting on vehicles B60R 9/08)}
35/607	. . having a platform or floor below the level of the buoyancy means, e.g. suspended basket type	35/795	. . . {transformable into another vehicle, e.g. sailboat, watercycle}
35/613	. . with tubular shaped flotation members	35/7953	. . . {Winddriven boards}
35/62	. . formed from logs or the like	2035/7956	. . . . {Masts for winddriven boards; Equipment therefor, other than mastfoot arrangements}
35/66	. Tugs (towing or pushing equipment B63B 21/56)	35/7959	. . . . {Mast foot arrangements}
35/665	. . {Floating propeller units, i.e. a motor and propeller unit mounted in a floating box (outboard propulsion units B63H 20/00)}	2035/7963	. . . . . {comprising shock absorbing elements}
35/68	. . for towing	35/7966	. . . . {Wishbone}
35/70	. . for pushing	35/7969	. . . . . {Connection to the mast}
35/71	. Canoes, kayaks or the like {(collapsible, foldable, inflatable or like vessels B63B 7/00)}	35/7973	. . . . {Sail arrangements}
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}	35/7976	. . . . . {Sails pivotally mounted at a mast-tip; Kite-sails (kites per se B64C 31/06)}
35/73	. Other vessels or like floating structures for pleasure or sport	35/7979	. . . . . {Control means for kite-sails; Harnesses for connecting kite-sails to a user, e.g. of quick release type}
35/731	. . {Waterscooters}		WARNING
35/732	. . {House boats}		Not complete, see B63B 35/7976, B64C 31/06
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}	35/7983	. . . . . {Sails with detachable sections, e.g. to change the sail area}
2035/735	. . {Towed structures, the towing member, e.g. tow-rope, being connected to the towed structure}	2035/7986	. . . . . {Clew trimmers, i.e. mechanisms or arrangements for trimming or positioning the clew of the sail, or for tensioning the outhaul}
2035/737	. . {for particular use, not otherwise provided for}	35/7989	. . . . . {Devices to tension the luff of the sail}
2035/738	. . . {for hunting, or fishing}	35/7993	. . . . {Harnesses or handgrips}
35/74	. . Body supporting buoyant devices with seat; {and bathing boats}	35/7996	. . . . . {with elastic connection to the wishbone}
35/76	. . . Ring-shaped buoyant member	35/81	. . Waterskis; Watersledges
35/78	. . . U-shaped buoyant member	35/811	. . . {with means for additional lift by provision of hollow bodies}
35/79	. . . Surf-boards, e.g. sailboards	35/812	. . . {Bindings}
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}	2035/813	. . . {Fins, keels, or the like water guiding means; Arrangements thereof on waterskis}
35/7906	. . . {Construction or shape of the boards}	35/815	. . . {Towing devices}
35/7909	. . . . {characterised by the arrangement of constructive parts made predominantly of plastics, e.g. layers}	35/816	. . . . {Connection of the tow to the boat; using winches (winches per se B66D)}
35/7913	. . . . {inflatable}	35/817	. . . . {Handles}
35/7916	. . . . {sectionalised}	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	43/00	Improving safety of vessels, e.g. damage control, not otherwise provided for (fire-fighting in ships A62C 3/10)
2035/855	. . . {Equipment or arrangements for generating waves, particularly adapted for surfing, waterskiing, or the like}	2043/003	. {Arrangements of emergency exits, e.g. for escape from engine rooms}
38/00	Vessels or like floating structures not otherwise provided for (vessels characterised by load-accomodating arrangements B63B 25/00 ; fire-extinguishing vessels A62C 29/00 ; submarines, mine-layers or mine-sweepers B63G ; large containers for use in or under water B65D 88/78)	2043/006	. {Methods or installations specially adapted for detecting ingress of ambient water, e.g. leak detectors}
39/00	Equipment to decrease pitch, roll, or like unwanted vessel movements; Apparatus for indicating vessel attitude {(for amphibious vehicles B60F 3/0038)}	43/02	. reducing risk of capsizing or sinking (by means of watertight doors in bulkheads B63B 43/24)
39/005	. {Equipment to decrease ship's vibrations produced externally to the ship, e.g. wave-induced vibrations (propulsion mountings for anti-vibration purposes B63H 21/30 ; vibration dampers, suppression of vibration in systems F16F)}	43/04	. . by improving stability
39/02	. to decrease vessel movements by displacement of masses	2043/042	. . . {using outboard booms supporting ballast, other than solid ballast or persons, e.g. carrying water-filled bags}
39/03	. . by transferring liquids	43/045	. . . {by decreasing the free surface effect of water entered in enclosed decks}
39/04	. to decrease vessel movements by using gyroscopes directly	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}
39/06	. to decrease vessel movements by using foils acting on ambient water (constructional aspects of bilge keels B63B 3/44 ; {foils mounted on the housing of outboard motors B63H 20/34)}	43/06	. . . using ballast tanks (conduits for emptying or ballasting B63B 13/00)
39/061	. . {by using trimflaps, i.e. flaps mounted on the rear of a boat, e.g. speed boat}	43/08	. . . by transfer of solid ballast
39/062	. . {the foils being mounted on outriggers or the like, e.g. antidrift hydrofoils for sail boats (hydrofoils B63B 1/24 ; drop keels B63B 41/00)}	43/085	. . . . {the stabilising effect being provided by the weight of a person placed on an outrigger seat swingable around a vertical axis}
2039/063	. . {the foils comprising flexible portions}	43/10	. . by improving buoyancy {(amphibious cycles B60F 3/0038)}
2039/065	. . {the foils being pivotal about an axis substantially parallel to the longitudinal axis of the vessel}	43/12	. . . using inboard air containers {or inboard floating members}
2039/066	. . {the lift generating devices using the Magnus effect}	2043/123	. . . . {using floaters mounted to the tip of a mast, e.g. inflatable}
2039/067	. . {effecting motion dampening by means of fixed or movable resistance bodies, e.g. by bilge keels}	2043/126	. . . . {pneumatic, e.g. inflatable on demand}
2039/068	. . {the foils having a variable cross section, e.g. a variable camber}	43/14	. . . using outboard floating members
39/08	. to decrease vessel movements by using auxiliary jets or propellers (for steering or dynamic anchoring B63H 25/00)	2043/145	. . . . {pneumatic, e.g. inflatable on demand}
39/10	. to decrease vessel movements by damping the waves, e.g. by pouring oil on water	43/16	. . . Temporary equipment for stopping leaks, e.g. collision mats
2039/105	. . {by absorption of wave energy, e.g. by structured, wave energy absorbing hull surfaces}	43/18	. preventing collision {or grounding}; reducing collision damage {(reducing pollution by collision B63B 25/082)}
39/12	. for indicating draught or load	2043/185	. . {using shock absorbing telescoping buffers}
39/14	. for indicating inclination or duration of roll	43/20	. . Feelers
41/00	Drop keels, e.g. centre boards or side boards {; Collapsible keels, or the like, e.g. telescopically; Longitudinally split hinged keels (keels integral with hull B63B 3/38 ; foils or keels on surf-boards B63B 35/7906 ; stabilising foils B63B 39/06)}	43/24	. Arrangements of watertight doors in bulkheads
2041/003	. {Collapsible keels, or the like, e.g. telescopically; Longitudinally split hinged keels}	43/26	. . of sliding type
2041/006	. . {Telescopically collapsible keels}	43/28	. . . with mechanical drive
		43/30	. . . with fluid drive
		43/32	. . of non-sliding type
		45/00	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 B63C 9/20 ; lighting devices or systems therefor F21L , F21S)
			WARNING
			Not complete, pending a reorganisation; see B63C 9/21
		2045/005	. {comprising particular electric circuits}
		45/02	. the devices being intended to illuminate the way ahead or other areas of environments
		45/04	. the devices being intended to indicate the vessel or parts thereof

45/06	the devices being intended to illuminate vessels' decks or interior	2201/26	signalling anomalies, e.g. rupture of connection
45/08	the devices being acoustic	2203/00	Communication means
49/00	Arrangements of nautical instruments or navigational aids (nautical measuring instruments G01C ; radio navigation, analogous arrangements using other waves G01S)	2203/02	telephone
51/00	Marking of navigation route	2205/00	Tether
51/02	with anchored light-ships; by use of lighthouses	2205/02	Having payout means
51/04	with free-floating flares	2205/04	Having means to control payout
57/00	Tank {or cargo hold} cleaning specially adapted for vessels (tank cleaning in general B08B 9/08)	2205/06	Reel for tether
2057/005	{of ballast tanks, e.g. from deposits, biological organisms; Ship-borne installations therefor}	2205/08	with means for recovering the sunken object
57/02	by washing	2207/00	Buoyancy or ballast means
57/04	by ventilating	2207/02	Variable ballast or buoyancy
59/00	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 C23F 13/00)	2207/04	Pressure equalising or adjusting
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 E02B 3/26)	2209/00	Energy supply or activating means
2059/025	{pneumatic, e.g. inflatable}	2209/02	water activated switches
59/04	Preventing hull fouling (anti-fouling paints C09D 5/16)	2209/04	water activated batteries
59/045	{by wrapping the submerged hull or part of the hull with an impermeable sheet (stopping temporarily leaks in hulls with impermeable sheets B63B 43/16)}	2209/06	fluid produced by reaction with water
59/06	Cleaning devices for hulls	2209/08	impact with water-surface or -bottom
2059/065	{mounted on land-borne vehicles, e.g. travelling on the bottom of a dry-dock}	2209/10	pyrotechnic means
59/08	of underwater surfaces while afloat (B63B 59/10 takes precedence)	2209/12	with time-delay
2059/082	{the devices being supported on arms or rods}	2209/14	energy generated by movement of the water
2059/085	{the devices being adapted for operation by divers}	2209/16	nuclear energy
2059/087	{the devices being adapted for being pulled across, or along the underwater surface to be cleaned, e.g. by ropes}	2209/18	solar energy
59/10	using trolleys or the like driven along the surface	2209/20	wind energy
69/00	Equipment for shipping not otherwise provided for	2211/00	Applications
2201/00	Signalling devices	2211/02	Oceanography
2201/02	Audible	2211/04	Diving
2201/04	Illuminating	2211/06	Operation in ice-infested waters
2201/06	by combustion of fluid	2213/00	Navigational aids and use thereof, not otherwise provided for in this class
2201/08	Electric light	2213/02	using satellite radio beacon positioning systems, e.g. the Global Positioning System GPS
2201/10	Smoke producing	2221/00	Methods and means for joining members or elements
2201/12	Reflecting means	2221/02	by welding
2201/14	Balloon	2221/04	by soldering
2201/16	Radio	2221/06	by riveting
2201/18	Sonar	2221/08	by means of threaded members, e.g. screws, threaded bolts or nuts
2201/20	Antenna or mast	2221/10	using adhesives
2201/22	Spread-open chemicals or other products	2221/12	by means of hook and loop fasteners
2201/24	by means of bubbles	2221/14	by means of zippers or the like
		2221/16	by means of ties, ribbons or the like
		2221/18	by sewing, stitching, stapling or the like methods
		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
		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
		2221/24	by means that allow one or more degrees of translational freedom, e.g. telescopic joints, not otherwise provided for in this class
		2231/00	Material used for some parts or elements, or for particular purposes
		2231/02	Metallic materials
		2231/04	Irons, steels or ferrous alloys

- 2231/06 . . . Stainless steels
- 2231/10 . . Aluminium or aluminium alloys
- 2231/12 . . Copper or copper alloys
- 2231/14 . . . Bronze, e.g. nickel-aluminium bronze
- 2231/16 . . . Brass
- 2231/18 . . Titanium or titanium alloys
- 2231/20 . . Magnesium or magnesium alloys
- 2231/28 . . Shape-memory alloys
- 2231/30 . Magnetic materials
- 2231/32 . Vegetable materials or material comprising predominately vegetable material
- 2231/34 . . Wood or wood products
- 2231/40 . Synthetic materials
- 2231/42 . . Elastomeric materials
- 2231/44 . . . Rubber
- 2231/46 Natural rubber or caoutchouc
- 2231/48 Synthetic rubber, e.g. silicone rubber, Neoprene, polyurethane
- 2231/50 . . Foamed synthetic materials
- 2231/52 . . Fibre reinforced plastics materials
- 2231/60 . Concretes
- 2231/62 . . Lightweight concretes
- 2231/64 . . Reinforced or armoured concretes
- 2231/66 . . . Fibre reinforced concretes, e.g. synthetic fibre reinforced concretes
- 2231/68 . . Prestressed concretes
- 2231/70 . Glass
- 2231/72 . . Hollow glass microspheres
- 2231/74 . Bituminous materials or the like
- 2231/76 . Ice
- 2241/00 Design characteristics**
- 2241/02 . Design characterised by particular shapes
- 2241/04 . . by particular cross sections
- 2241/06 . . . Circular cross sections
- 2241/08 . . . Polygonal cross sections
- 2241/10 . . by particular three dimensional shapes
- 2241/12 . . . annular or toroidal
- 2241/14 . . . spherical
- 2241/16 . . . polyhedral
- 2241/20 . Designs or arrangements for particular purposes not otherwise provided for in this class
- 2241/22 . . for providing redundancy to equipment or functionality of a vessel, e.g. for steering
- 2241/24 . . for facilitating transport, e.g. hull shape with limited dimensions
- 2241/26 . . . for transport on roads, e.g. hull shape with maximum dimensions for public roads
- 2241/28 . . . for airborne transport
- 2701/00 Building of the ship's hull**
- 2701/02 . Steel construction
- 2701/04 . Reinforced concrete construction
- 2701/06 . Wood construction; Composite construction
- 2701/08 . Electric and fusion welding for ships ([welding in general B23K](#))
- 2701/10 . Keelsons, floors, double bottoms, tanks, coal bunkers, tunnels, engine and boiler rooms
- 2701/12 . Frames, web frames, deck beams, longitudinal girders, coamings, deck pillars
- 2701/14 . Deck plating, wooden decks for steel ships
- 2701/16 . Shell plating and bulwarks; Fenders; Gunwales; Bilge keels and other elements fixed to the shell
- 2701/18 . Longitudinal and transverse bulkheads made of steel or wood
- 2701/20 . Stems and keels; Stern frames; Bossings and struts; Propeller guards
- 2701/22 . Lining and panelling in wood or metal; Movable partition walls within accommodation spaces; Insulating walls; Stairs; Windshields on decks ([internal partitions for buildings E04B 2/00](#))
- 2702/00 Submarines**
- 2702/02 . Equipment for lifting sunken submarines ([Equipment for salvaging sunken vessels or other objects B63C 7/00](#))
- 2702/04 . Arrangements of motors and transmissions in submarines; Propulsion
- 2702/06 . Arrangements for the transportation, drydocking, and testing of submarines ([drydocking B63C 1/00](#))
- 2702/08 . Arrangements for anchoring of submarines
- 2702/10 . Miscellaneous arrangement for submarines
- 2702/12 . Submarines of special construction or fitted with special devices or apparatus; Merchant submarines
- 2702/14 . Arrangements for detecting and localising submarines ([Acoustic detection G01S](#), [electromagnetic detection G01N](#))
- 2704/00 Port-holes, windows, doors and other openings in the superstructures**
- 2705/00 Closets, latrines, swimming pools and washing facilities for ships; Overboard discharges**
- 2707/00 Doors and closing means**
- 2708/00 Winches; Capstans**
- 2708/02 . Winches and capstans driven by electric or electro-hydraulic means
- 2709/00 Tables, chairs and other furniture peculiar to vessels**
- 2710/00 Miscellaneous equipment for ships, e.g. collision mats, rat guards**
- 2711/00 Equipment for watching and measuring the oscillations, the resistance and the movements of ships; Model towing tanks**
- 2712/00 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**
- 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
- 2713/00 Stowing of the boats, i.e. arrangement, chocks, lashing down and transport of the boats on deck**
- 2714/00 Construction of turning davits, davit foundations and davit drives**
- 2714/02 . Construction of swinging davits and other davits and of davit foundation and drives
- 2715/00 Hydraulic and pneumatic steering gear**
- 2716/00 Steam-powered steering gear**
- 2717/00 Hand-operated steering gears; Combined hand and steam-powered steering gears**

2718/00	Components of the steering gears, e.g. steering wheels, telemotors, driving chains, shock dampers, quadrants, arrangements to block the rudder, brakes, rudder stops	2741/00	Manual propulsion; Paddles
2719/00	Arrangements for slowing-down of ships by means of side flaps and for creating a lateral resistance for manoeuvring	2742/00	Anti-torpedo nets and shields for ships; Anti-submarine nets and devices for the protection of harbours and means for the destruction thereof
2721/00	Automatic steering apparatus, non-electric	2742/02	. Arrangements on ships for reducing danger due to torpedo or sea mine explosions
2721/02	. Auxiliary steering gear and other steering arrangements	2743/00	Paddle wheels for ships in general
2722/00	Towing in general	2744/00	Stern paddle wheels
2723/00	Miscellaneous equipment for towing	2745/00	Propellers for ships in general (construction of air propellers B64C)
2724/00	Navigation signals, e.g. masthead and side lights, marking of seaways, arrangements of compasses	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)
2725/00	Engine room signals and arrangements for controlling the main engines from the navigation bridge	2745/04	. Propulsive devices, e.g. rotating cylinders, paddle wheels; Rudders or stabilising surfaces using Magnus effect
2726/00	Miscellaneous signalling devices and draft indicators	2746/00	Propellers with air exhaust, e.g. hollow propellers for ships
2727/00	Signalling devices using acoustic or mechanical means	2747/00	Arrangements of propellers and other propulsive devices on ships
2727/02	. Arrangements for the detection of icebergs, reefs, derelicts, or the like	2747/02	. Propellers driven by outboard motors placed astern or on the sides of the ship
2728/00	Lifeboats, liferafts, lifesaving floats, etc.	2748/00	Propeller hubs and blade connections
2729/00	Coastal lifesaving	2749/00	Propeller shafts and paddle-wheel shafts; Shaft liners
2730/00	Diving suits	2750/00	Propeller shaft bearings, thrust bearings
2730/02	. Resilient suits	2751/00	Propulsion of ships using the reaction effect of a water jet
2731/00	Arrangements for avoiding capsizing and sinking	2752/00	Propulsion of ships using the reaction effect of steam jets or gas jets
2732/00	Arrangements for avoiding or reducing collision damage	2753/00	Propulsion of ships using the reaction effect of gas explosions
2733/00	Arrangements for reducing the risk of running aground; Depth sounders	2754/00	Propulsive flaps
2734/00	Loading and unloading ships by ship-mounted means	2755/00	Electric drives for the propulsive devices
2735/00	Miscellaneous shipbuilding-related arrangements and constructions, e.g. pontoons	2756/00	Steam reciprocating engine drives for the propulsive devices
2736/00	Slipways, shipyard installations and apparatus for launching or hauling-out ships	2757/00	Steam turbine drives for the propulsive devices
2737/00	Dry and floating docks; Cleaning devices for hulls; Drydocking of hull parts; Equipment for dry and floating docks	2758/00	Internal combustion engine drives for the propulsive devices
2738/00	Re-floating of ships and sunken objects	2759/00	Other means for driving marine propulsion devices; Arrangements for synchronising two or more engines
2738/02	. Salvaging of ships by means of floats	2760/00	Marine drive governors that are influenced by the movements of the ship
2738/04	. Salvaging of ships using cofferdams	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
2738/06	. Salvaging of ships using diving bells		
2738/08	. Salvaging of ships by other means, e.g. using balloons or frozen blocks		
2738/10	. Floating docks for lifting ships		
2738/12	. Attaching floats and chains to the hull by mechanical means; Lifting chains		
2739/00	Boats or canoes in general; Construction and outfitting		