

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)	2001/126	. . . . . {comprising more than three hulls}
2001/005	. {Deflectors for spray, e.g. for guiding spray generated at the bow of a planing vessel underneath the hull}	2001/128	. . . . . {comprising underwater connectors between the hulls}
1/02	. deriving lift mainly from water displacement (B63B 1/16 takes precedence)	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)}
1/04	. . with single hull		WARNING
1/041	. . . {with disk-shaped hull}		Not complete, pending a reorganisation, see B63B 1/12 and subgroups
1/042	. . . {the underpart of which being partly provided with channels or the like, e.g. catamaran shaped}	2001/145	. . . . . {having means for actively varying hull shape or configuration}
2001/044	. . . {with a small waterline area compared to total displacement, e.g. of semi-submersible type}	1/16	. deriving additional lift from hydrodynamic forces
2001/045	. . . {with means for actively varying hull shape or configuration, e.g. for varying hydrodynamic characteristics}	1/18	. . of hydroplane type
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)}	2001/183	. . . {having non-floating planing surfaces, e.g. attached skis or plate-shaped bodies}
1/048	. . . {with hull extending principally vertically}	2001/186	. . . {Sponsons; Arrangements thereof}
1/06	. . . Shape of fore part	1/20	. . . having more than one planing surface (B63B 1/22 takes precedence)
1/063	. . . . {Bulbous bows}		WARNING
2001/066	. . . . {Substantially vertical stems}		Not complete, pending a reorganisation, see B63B 1/042
1/08	. . . Shape of after part	2001/201	. . . . . {divided by longitudinal chines}
1/10	. . with multiple hulls	2001/202	. . . . . {divided by transverse steps}
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}	2001/203	. . . . . {arranged in semi-catamaran configuration}
1/105	. . . {comprising a cockpit surrounded and pivotally supported by at least three floats}	2001/204	. . . . . {arranged on multiple hulls}
1/107	. . . {Semi-submersibles; Small waterline area multiple hull vessels and the like, e.g. SWATH}	2001/205	. . . . . {the hulls being interconnected rigidly}
	WARNING	2001/206	. . . . . {comprising two hulls, e.g. catamarans}
	Not complete, see B63B 1/12 and subgroups	2001/207	. . . . . {comprising more than two hulls}
1/12	. . . the hulls being interconnected rigidly {(B63B 1/107 takes precedence)}	2001/208	. . . . . {comprising three hulls, e.g. trimarans}
1/121	. . . . {comprising two hulls (B63B 1/107 takes precedence)}	2001/209	. . . . . {the hulls being interconnected resiliently, or having means for actively varying hull shape or configuration}
2001/123	. . . . . {interconnected by a plurality of beams, or the like members only}	1/22	. . . with adjustable planing surfaces
1/125	. . . . . {comprising more than two hulls (B63B 1/107 takes precedence)}	1/24	. . of hydrofoil type {(controlling attitude or depth of underwater vessels by hydrofoils or the like B63G 8/18)}
			WARNING
			This group is pending a reorganisation, also documents covered by group B63B 1/26 are within this group
		1/242	. . . {Mounting, suspension of the foils (B63B 1/30 takes precedence)}
		1/244	. . . {Safety systems, e.g. when striking an object}

- 1/246 . . . {Arrangements of propulsion elements
(propulsion elements in general [B63H 5/00](#),
propulsion by jets in general [B63H 11/00](#))}
- 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
- 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}
 - 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}
 - 7/087 {Motor mountings, e.g. transom panels for outboard motors}
- 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](#))**
 - 9/001 . {Methods of designing, or determining properties of vessels by means of analytical modelling, e.g. computational}
 - WARNING**
Not complete pending a reorganisation, see [B63B 9/00](#) and [G06F 17/50](#)
 - 9/002 . . {using fluid dynamics analysis, e.g. computational fluid dynamics}
 - WARNING**
Not complete pending a reorganisation, see [B63B 9/00](#) and [G06F 17/50](#)
 - 9/003 . . {using structure analysis, e.g. finite elements}
 - 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}
- 9/02 . Using towing tanks or model basins for designing {(arrangements in or on ship testing tanks or water tunnels [G01M 10/00](#))}
- 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}
- 9/04 . Rebuilding ships, e.g. increasing tonnage
- 9/06 . Methods of building hulls
- 9/062 . . {by folding (foldable vessels [B63B 7/00](#))}
- 9/065 . . {for floating offshore platforms (grounded platforms [E02B 17/00](#))}
- WARNING**
Not complete, see [B63B 21/50](#), [B63B 35/003](#), [B63B 35/44](#)
- 2009/067 . . . {for assembling offshore structures, e.g. in situ, using buoyancy forces for supporting the structure itself, or part of it, e.g. using barges}
- 9/08 . Determining vessel properties with respect to stability or balance
- 11/00 Interior subdivision of hulls (bulkhead space construction [B63B 3/56](#))**
 - 11/02 . Arrangement of bulkheads, e.g. defining cargo spaces
 - 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](#))
 - WARNING**
Not complete pending reclassification; see also [B63B 25/08](#) and subgroups
 - 11/06 . Propeller-shaft tunnels
- 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](#))**
 - 2013/005 . {Sea chests}
 - 13/02 . Ports for passing water through vessels' sides {(jet propulsors with clogging prevention means [B63H 11/01](#))}
- 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](#)})**
 - 2015/0008 . {Bowsprits}
 - 2015/0016 . {Masts characterized by mast configuration or construction}
 - 2015/0025 . . {Bipodded masts, e.g. A-type masts}
 - 2015/0033 . . {Multipodded masts, e.g. tripod-type}
 - 2015/0041 . . {Telescoping masts}
 - 2015/005 . . {with means for varying mast position or orientation with respect to the hull}
 - 2015/0058 . . . {comprising active mast inclination means}

- 2015/0066 . . . {Inclinable masts with passive righting means, e.g. counterbalancing means}
- 2015/0075 . . . {with mast foot adapted for being moved, e.g. athwartship}
- 15/0083 . {Masts for sailing ships or boats}
- 2015/0091 . . {comprising means for silencing rope noise}
- 15/02 . Staying of masts or of other superstructures
- 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](#))}
- WARNING**
- Not complete pending a reorganisation; for documents concerning protective caps, or anti-theft devices other than using keys, see [B63J 99/00](#)
- 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}
- 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](#))}
- WARNING**
- Documents concerning "externally attached cofferdams or the like" are not complete, pending a reorganisation; see also [B63B 9/00](#)
- 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](#))}
- WARNING**
- Not complete pending reclassification; see also [B63B 25/08](#) and subgroups
- 17/0036 . . {Arrangements for minimizing pollution by accidents (associated with cargo tanks [B63B 25/082](#))}
- 2017/0045 . {Caps, hoods, or the like devices for protective purposes, not otherwise provided for}
- 2017/0054 . {Rests or supports for movable ship-borne equipment}
- 2017/0063 . . {Boom rests, i.e. props for main sail booms, derricks, or the like}
- 2017/0072 . {Seaway compensators}
- 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](#)}
- WARNING**
- Not complete pending a reorganisation, see [B63B 21/00](#)
- 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}
- WARNING**
- this group is pending a reorganisation, also documents covered by group [B63B 21/36](#) are within this group
- 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
- WARNING**
- Not complete, pending a reorganisation, see [B63B 21/243](#)
- 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}
- 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	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)}
21/508	. . . {connected to submerged buoy (mooring buoys per se B63B 22/02)}		WARNING
21/54	. Boat-hooks or the like {, e.g. hooks detachably mounted to a pole}		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
21/56	. Towing or pushing equipment (tugs B63B 35/66 ; {towing devices for waterskis or watersledges B63B 35/815 })		
2021/563	. . {Pushing equipment}	22/025	. . . {and comprising a restoring force in the mooring connection provided by means of weight, float or spring devices}
2021/566	. . {comprising running ropes or chains, e.g. endless, driven by ground-borne equipment}	22/026	. . . {and with means to rotate the vessel around the anchored buoy (turrets B63B 21/507)}
21/58	. . Adaptations of hooks for towing; Towing-hook mountings (hooks in general F16B)	2022/028	. . {submerged, e.g. fitting into ship-borne counterpart with or without rotatable turret, or being releasably connected to moored vessel}
21/60	. . . Quick releases	22/04	. {Fixations or other} anchoring arrangements
21/62	. . characterised by moving of more than one vessel (rigid interconnections between pontoons B63B 35/38)	22/06	. . with means to cause the buoy to surface in response to a transmitted signal {(B63B 22/023 takes precedence)}
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)	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
21/66	. . 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)	22/10	. . . Water soluble or water weakened means, i.e. buoy released by buoy-to-object securing means being destroyed on contact with water
21/663	. . . {Fairings}	22/12	. . . the surfacing of the buoy being assisted by a gas released or generated on submergence of the buoy
2021/666	. . . {for intermittent towing}	22/14	. . . Buoy-to-object securing means responsive to hydrostatic pressure
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 })	22/16	. specially adapted for marking a navigational route (signalling or lighting devices B63B 45/00)
22/003	. {adapted for being launched from an aircraft or water vehicle;,, e.g. with brakes deployed in the water}	22/163	. . {comprising a bell or other audible signal}
2022/006	. {specially adapted for measuring or watch purposes}	22/166	. . {comprising a light}
22/02	. specially adapted for mooring a vessel	22/18	. having means to control attitude or position, e.g. reaction surfaces or tether
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)}	22/20	. . Ballast means
	WARNINGS	22/22	. Inflatable buoys with gas generating means (B63B 22/12 takes precedence)
	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 .	22/24	. container type, i.e. having provision for the storage of material
	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.	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)
			WARNING
			Not complete, pending a reorganisation; see B63B 22/021 and B63B 22/24
		22/28	. . submerged when not in use {(B63B 22/023 takes precedence)}
			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	25/004	• • {for containers (B63B 25/28 takes precedence)}
23/04	• • with arms pivoting on substantially horizontal axes, e.g. gravity type	25/006	• • {for floating containers, barges or other floating cargo (for transporting marine vessels B63B 35/40)}
23/06	• • • with actual pivots	25/008	• • {for wheeled cargo (B63B 25/20 takes precedence)}
23/08	• • • • the arms being articulated	25/02	• for bulk goods
23/10	• • • • with positive drive of the arms	2025/022	• • {comprising flexible receptacles for bulk cargo, e.g. bladders for liquid cargo inserted in tanks}
23/12	• • • with simulated pivots	2025/025	• • {Vessels adapted for particular combinations of bulk cargo}
23/14	• • • • using linkages	2025/027	• • • {Ore-bulk-oil carriers}
23/16	• • • • using guide tracks	25/04	• • solid
23/18	• • with arms pivoting on substantially vertical axes	25/06	• • • for cereals
23/20	• • • Davits with single arms (cranes in general B66C)	25/08	• • fluid {(constructional features of bunkers B63B 11/04 ; tanks for fuel or the like not forming bunkers B63B 17/0027)}
23/22	• • • • Slings or the like therefor	<u>WARNING</u>	
23/24	• • • Slewing equipment therefor	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	
23/26	• • with rectilinear translation of boat before lowering		
23/28	• Devices for projecting or releasing boats for free fall		
23/30	• Devices for guiding boats to water surface		
23/32	• • Rigid guides, e.g. having arms pivoted near waterline		
23/34	• • Guiding means for lowering by cables, e.g. for listing ships		
23/36	• • • Skid fenders	25/082	• • • {Arrangements for minimizing pollution by accidents (associated with tanks for fuel or the like not forming bunkers B63B 17/0036)}
23/38	• Transport of boats to davits or the like		
23/40	• Use of lowering or hoisting gear	2025/085	• • • {comprising separation membranes}
23/42	• • with braking equipment	2025/087	• • • {comprising self-contained tanks installed in the ship structure as separate units}
23/44	• • • on the ship		
23/46	• • • in the boat	25/10	• • • open to ambient air
23/48	• • Using winches for boat handling (winches per se B66D)	25/12	• • • closed
23/50	• • • with tensioning gear	25/14	• • • • pressurised
23/52	• • • with control of winches from boat	25/16	• • • • heat-insulated (insulating panelling B63B 3/68 ; heating or cooling B63J)
23/54	• • with trimming equipment	25/18	• Detachable decks
23/56	• • • controlled from boat	25/20	• • for motor vehicles or the like
23/58	• • with tackle engaging or release gear	25/22	• for palletised articles
	<u>WARNING</u>	25/24	• Means for preventing unwanted cargo movement, e.g. dunnage
	this group is pending a reorganisation, also documents covered by group B63B 23/70 are within this group	2025/245	• • {of wheeled cargo, e.g. vehicle retainers}
23/60	• • Additional connections between boat and davits	25/26	• for frozen goods
23/62	• Fastening or storing of boats on deck	25/28	• for deck loads
23/64	• • Lashings; Covers	2025/285	• • {Means for securing deck containers against unwanted movements}
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		
	<u>WARNING</u>		
	Not complete, pending a reorganisation, see B63B 23/58		
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)	27/00	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})
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)}	<u>WARNING</u>	
		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	
		27/02	• {with intermittent action}
		27/04	• • Ships' derricks, i.e. employing ships' masts (derricks in general B66C)
		27/06	• • • {with slewing force exerted at pivoted end}
		27/08	• • using winches (winches per se B66D)
		27/10	• • using cranes (cranes per se B66C)

- 27/12 . . . of gantry type
- 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}
- 2027/141 . . . {telescopically extendable}
- 27/143 . . . {Ramps}
- 2027/145 . . . {Inflatable ramps}
- 27/146 . . . {Pilot ladders or similar outboard ladders, e.g. bathing ladders; Pilot lifts}
- 2027/148 . . . {Pilot lifts}
- 27/16 . . using lifts or hoists (elevators *per se* [B66B](#) {Pilot lifts [B63B 27/14](#)})
- 2027/165 . . . {Deployment or recovery of underwater vehicles using lifts or hoists}
- 27/18 . . using cableways, e.g. with breeches-buoys (cableways *per se* [B65G](#))
- WARNING**
this group is pending a reorganisation, also documents covered by group [B63B 27/32](#) are within this group
- 27/20 . {with continuous action}
- 27/22 . . 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](#))
- 27/24 . . Loading or unloading fluids
- WARNING**
this group is pending a reorganisation, also documents covered by group [B63B 27/25](#) are within this group
- 27/25 . . . {Arrangement of ship-based loading or unloading equipment} for fluidised bulk material
- WARNING**
Not complete, pending a reorganisation, see [B63B 27/24](#)
- 27/26 . . using devices with throwing action (devices with throwing action *per se* [B65G](#))
- 27/28 . . using chutes (chutes *per se* [B65G](#))
- 27/30 . {Arrangement of ship-based loading or unloading equipment} for transfer at sea between ships or between ships and off-shore structures
- WARNING**
Not complete, pending a reorganisation, see [B63B 22/021](#), [B63B 35/44](#), and subgroups
- 27/32 . . using cableways
- WARNING**
Not complete, pending a reorganisation, see [B63B 27/18](#)
- 27/34 . . 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](#)})
- WARNING**
Not complete, pending a reorganisation, see [B63B 21/507](#), [B63B 22/021](#), [B63B 35/44](#) and subgroups
- 27/36 . {Arrangement of ship-based loading or unloading equipment} for floating cargo (devices for facilitating retrieval of floating objects *per se* [B66C 13/02](#))
- 29/00 Accomodation for crew or passengers not otherwise provided for**
- 29/02 . Cabins or other living spaces; Construction or arrangement thereof
- 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 [B63C 9/30](#))
- 2029/043 . . . {Seats; Arrangements thereof on vessels}
- 2029/046 . . . {Tables, e.g. foldable or stowable}
- 29/06 . . . Fastening to floors
- 29/08 . . . Storm guards on tables, e.g. fiddles
- 29/10 . . . Berths; Mounting ladders therefor
- 29/12 . . . Self-levelling mountings
- WARNING**
this group is pending a reorganisation, also documents covered by group [B63B 35/50](#) and subgroups are in this group
- 29/14 . . Closet or like flushing arrangements; Washing or bathing facilities peculiar to ships
- 2029/145 . . . {Collapsible or non-permanent privacy rooms, e.g. closets or changing rooms}
- 29/16 . Soil water discharges ({arrangements of installations for treating waste water or sewage [B63J 4/006](#)})
- 29/18 . Arrangements or adaptations of swimming pools
- 29/20 . Arrangements or adaptations of ladders (mounting ladders for berths [B63B 29/10](#))
- 29/205 . . {on masts}
- 29/22 . 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 . {for beach loading or unloading, e.g. landing crafts}
- 2035/002 . {for inland waters, e.g. for use on canals or rivers}

- 35/003 . {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 . {Passenger vessels, e.g. cruise vessels or the like}
- 2035/005 . {Search and rescue [SAR] vessels}
- 2035/006 . {Unmanned surface vessels, e.g. remotely controlled}
- 2035/007 . . {autonomously operating}
- 2035/008 . . {remotely controlled}
- 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}
- 35/03 . Pipe-laying vessels ([laying pipes under water F16L 1/12](#))
- 35/04 . Cable-laying vessels
- 35/06 . . 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
- WARNING**
- This group is pending a reorganisation, also documents covered by group [B63B 35/53](#) are within this group.
- 35/53 . . Floating runways
- WARNING**
- Group [B63B 35/53](#) is not complete pending a reorganisation; see also groups [B63B 35/50](#) and [B63B 35/52](#)
- 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 ([hydrofoils per se B63B 1/24](#))}
- 35/7926 {Fins, keels or steering devices acting on water}
- 35/793 {Fixations for fins which do not normally move during sailing, e.g. fixations that can be slidably set before sailing}
- 35/7933 . . . {Emergency arrangements and equipment; Other accessories ([anti-theft devices using locks E05B 73/007](#))}
- 35/7936 {Arrangements for the feet of the surfer}
- 2035/794 {Leashes, i.e. security lines, or tethers connecting a board to the rider, e.g. to a limb; Attachment means therefor}
- 35/7943 . . . {Motordriven boards}
- 35/7946 . . . {Stowing or transporting arrangements ([transporting on vehicles B60R 9/08](#))}
- 35/795 . . . {transformable into another vehicle, e.g. sailboat, watercycle}
- 35/7953 . . . {Winddriven boards}
- 2035/7956 {Masts for winddriven boards; Equipment therefor, other than mastfoot arrangements}
- 35/7959 {Mast foot arrangements}
- 2035/7963 {comprising shock absorbing elements}
- 35/7966 {Wishbone}
- 35/7969 {Connection to the mast}
- 35/7973 {Sail arrangements}
- 35/7976 {Sails pivotally mounted at a mast-tip; Kite-sails ([kites per se B64C 31/06](#))}
- 35/7979 {Control means for kite-sails; Harnesses for connecting kite-sails to a user, e.g. of quick release type}
- WARNING**
- Not complete, see [B63B 35/7976](#), [B64C 31/06](#)
- 35/7983 {Sails with detachable sections, e.g. to change the sail area}
- 2035/7986 {Clew trimmers, i.e. mechanisms or arrangements for trimming or positioning the clew of the sail, or for tensioning the outhaul}

- 35/7989 {Devices to tension the luff of the sail}
- 35/7993 {Harnesses or handgrips}
- 35/7996 {with elastic connection to the wishbone}
- 35/81 . . Waterskis; Watersledges
- 35/811 . . . {with means for additional lift by provision of hollow bodies}
- 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 ([winches per se B66D](#))}
- 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}
- 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](#))
- 39/00 Equipment to decrease pitch, roll, or like unwanted vessel movements; Apparatus for indicating vessel attitude** {(for amphibious vehicles [B60F 3/0038](#))}
- 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](#))}
- 39/02 . to decrease vessel movements by displacement of masses
- 39/03 . . by transferring liquids
- 39/04 . to decrease vessel movements by using gyroscopes directly
- 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](#))}
- 39/061 . . {by using trimflaps, i.e. flaps mounted on the rear of a boat, e.g. speed boat}
- 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](#))}
- 2039/063 . . {the foils comprising flexible portions}
- 2039/065 . . {the foils being pivotal about an axis substantially parallel to the longitudinal axis of the vessel}
- 2039/066 . . {the lift generating devices using the Magnus effect}
- 2039/067 . . {effecting motion dampening by means of fixed or movable resistance bodies, e.g. by bilge keels}
- 2039/068 . . {the foils having a variable cross section, e.g. a variable camber}
- 39/08 . to decrease vessel movements by using auxiliary jets or propellers ([for steering or dynamic anchoring B63H 25/00](#))
- 39/10 . to decrease vessel movements by damping the waves, e.g. by pouring oil on water
- 2039/105 . . {by absorption of wave energy, e.g. by structured, wave energy absorbing hull surfaces}
- 39/12 . for indicating draught or load
- 39/14 . for indicating inclination or duration of roll
- 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](#))}
- 2041/003 . {Collapsible keels, or the like, e.g. telescopically; Longitudinally split hinged keels}
- 2041/006 . . {Telescopically collapsible keels}
- 43/00 Improving safety of vessels, e.g. damage control, not otherwise provided for** ([fire-fighting in ships A62C 3/10](#))
- 2043/003 . {Arrangements of emergency exits, e.g. for escape from engine rooms}
- 2043/006 . {Methods or installations specially adapted for detecting ingress of ambient water, e.g. leak detectors}
- 43/02 . reducing risk of capsizing or sinking ([by means of watertight doors in bulkheads B63B 43/24](#))
- 43/04 . . by improving stability
- 2043/042 . . . {using outboard booms supporting ballast, other than solid ballast or persons, e.g. carrying water-filled bags}
- 43/045 . . . {by decreasing the free surface effect of water entered in enclosed decks}
- 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}
- 43/06 . . . using ballast tanks ([conduits for emptying or ballasting B63B 13/00](#))
- 43/08 . . . by transfer of solid ballast
- 43/085 {the stabilising effect being provided by the weight of a person placed on an outrigger seat swingable around a vertical axis}
- 43/10 . . by improving buoyancy ([\(amphibious cycles B60F 3/0038\)](#))}
- 43/12 . . . using inboard air containers {or inboard floating members}
- 2043/123 {using floaters mounted to the tip of a mast, e.g. inflatable}
- 2043/126 {pneumatic, e.g. inflatable on demand}
- 43/14 . . . using outboard floating members
- 2043/145 {pneumatic, e.g. inflatable on demand}
- 43/16 . . . Temporary equipment for stopping leaks, e.g. collision mats
- 43/18 . preventing collision {or grounding}; reducing collision damage {([reducing pollution by collision B63B 25/082](#))}
- 2043/185 . . {using shock absorbing telescoping buffers}
- 43/20 . . Feelers
- 43/24 . Arrangements of watertight doors in bulkheads
- 43/26 . . of sliding type
- 43/28 . . . with mechanical drive
- 43/30 . . . with fluid drive

43/32	. . of non-sliding type	59/10	. . using trolleys or the like driven along the surface
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)	69/00	Equipment for shipping not otherwise provided for
	WARNING	2201/00	Signalling devices
	Not complete, pending a reorganisation; see B63C 9/21	2201/02	. Audible
2045/005	. {comprising particular electric circuits}	2201/04	. Illuminating
45/02	. the devices being intended to illuminate the way ahead or other areas of environments	2201/06	. . by combustion of fluid
45/04	. the devices being intended to indicate the vessel or parts thereof	2201/08	. . Electric light
45/06	. the devices being intended to illuminate vessels' decks or interior	2201/10	. Smoke producing
45/08	. the devices being acoustic	2201/12	. Reflecting means
49/00	Arrangements of nautical instruments or navigational aids (nautical measuring instruments G01C ; radio navigation, analogous arrangements using other waves G01S)	2201/14	. Balloon
		2201/16	. Radio
51/00	Marking of navigation route	2201/18	. Sonar
51/02	. with anchored light-ships; by use of lighthouses	2201/20	. Antenna or mast
51/04	. with free-floating flares	2201/22	. Spread-open chemicals or other products
57/00	Tank {or cargo hold} cleaning specially adapted for vessels (tank cleaning in general B08B 9/08)	2201/24	. by means of bubbles
2057/005	. {of ballast tanks, e.g. from deposits, biological organisms; Ship-borne installations therefor}	2201/26	. signalling anomalies, e.g. rupture of connection
57/02	. by washing	2203/00	Communication means
57/04	. by ventilating	2203/02	. telephone
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)	2205/00	Tether
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)	2205/02	. Having payout means
2059/025	. . {pneumatic, e.g. inflatable}	2205/04	. . Having means to control payout
59/04	. Preventing hull fouling (anti-fouling paints C09D 5/16)	2205/06	. . Reel for tether
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)}	2205/08	. with means for recovering the sunken object
59/06	. Cleaning devices for hulls	2207/00	Buoyancy or ballast means
2059/065	. . {mounted on land-borne vehicles, e.g. travelling on the bottom of a dry-dock}	2207/02	. Variable ballast or buoyancy
59/08	. . of underwater surfaces while afloat (B63B 59/10 takes precedence)	2207/04	. Pressure equalising or adjusting
2059/082	. . . {the devices being supported on arms or rods}	2209/00	Energy supply or activating means
2059/085	. . . {the devices being adapted for operation by divers}	2209/02	. water activated switches
2059/087	. . . {the devices being adapted for being pulled across, or along the underwater surface to be cleaned, e.g. by ropes}	2209/04	. water activated batteries
		2209/06	. fluid produced by reaction with water
		2209/08	. impact with water-surface or -bottom
		2209/10	. pyrotechnic means
		2209/12	. with time-delay
		2209/14	. energy generated by movement of the water
		2209/16	. nuclear energy
		2209/18	. solar energy
		2209/20	. wind energy
		2211/00	Applications
		2211/02	. Oceanography
		2211/04	. Diving
		2211/06	. Operation in ice-infested waters
		2213/00	Navigational aids and use thereof, not otherwise provided for in this class
		2213/02	. using satellite radio beacon positioning systems, e.g. the Global Positioning System GPS
		2221/00	Methods and means for joining members or elements
		2221/02	. by welding
		2221/04	. by soldering
		2221/06	. by riveting
		2221/08	. by means of threaded members, e.g. screws, threaded bolts or nuts
		2221/10	. using adhesives
		2221/12	. by means of hook and loop fasteners
		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 accomodation 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	<ul style="list-style-type: none"> 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 	2736/00	Slipways, shipyard installations and apparatus for launching or hauling-out ships
2713/00	Stowing of the boats, i.e. arrangement, chocks, lashing down and transport of the boats on deck	2737/00	Dry and floating docks; Cleaning devices for hulls; Drydocking of hull parts; Equipment for dry and floating docks
2714/00	Construction of turning davits, davit foundations and davit drives	2738/00	Re-floating of ships and sunken objects
2714/02	<ul style="list-style-type: none"> Construction of swinging davits and other davits and of davit foundation and drives 	2738/02	<ul style="list-style-type: none"> Salvaging of ships by means of floats
2715/00	Hydraulic and pneumatic steering gear	2738/04	<ul style="list-style-type: none"> Salvaging of ships using cofferdams
2716/00	Steam-powered steering gear	2738/06	<ul style="list-style-type: none"> Salvaging of ships using diving bells
2717/00	Hand-operated steering gears; Combined hand and steam-powered steering gears	2738/08	<ul style="list-style-type: none"> Salvaging of ships by other means, e.g. using balloons or frozen blocks
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	2738/10	<ul style="list-style-type: none"> Floating docks for lifting ships
2719/00	Arrangements for slowing-down of ships by means of side flaps and for creating a lateral resistance for manoeuvring	2738/12	<ul style="list-style-type: none"> Attaching floats and chains to the hull by mechanical means; Lifting chains
2721/00	Automatic steering apparatus, non-electric	2739/00	Boats or canoes in general; Construction and outfitting
2721/02	<ul style="list-style-type: none"> Auxiliary steering gear and other steering arrangements 	2741/00	Manual propulsion; Paddles
2722/00	Towing in general	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
2723/00	Miscellaneous equipment for towing	2742/02	<ul style="list-style-type: none"> Arrangements on ships for reducing danger due to torpedo or sea mine explosions
2724/00	Navigation signals, e.g. masthead and side lights, marking of seaways, arrangements of compasses	2743/00	Paddle wheels for ships in general
2725/00	Engine room signals and arrangements for controlling the main engines from the navigation bridge	2744/00	Stern paddle wheels
2726/00	Miscellaneous signalling devices and draft indicators	2745/00	Propellers for ships in general (construction of air propellers B64C)
2727/00	Signalling devices using acoustic or mechanical means	2745/02	<ul style="list-style-type: none"> Contra-propellers and other water guiding installations in front of or behind the rotating propeller (rudders with water guiding surfaces B63H 25/00)
2727/02	<ul style="list-style-type: none"> Arrangements for the detection of icebergs, reefs, derelicts, or the like 	2745/04	<ul style="list-style-type: none"> Propulsive devices, e.g. rotating cylinders, paddle wheels; Rudders or stabilising surfaces using Magnus effect
2728/00	Lifeboats, liferafts, lifesaving floats, etc.	2746/00	Propellers with air exhaust, e.g. hollow propellers for ships
2729/00	Coastal lifesaving	2747/00	Arrangements of propellers and other propulsive devices on ships
2730/00	Diving suits	2747/02	<ul style="list-style-type: none"> Propellers driven by outboard motors placed astern or on the sides of the ship
2730/02	<ul style="list-style-type: none"> Resilient suits 	2748/00	Propeller hubs and blade connections
2731/00	Arrangements for avoiding capsizing and sinking	2749/00	Propeller shafts and paddle-wheel shafts; Shaft liners
2732/00	Arrangements for avoiding or reducing collision damage	2750/00	Propeller shaft bearings, thrust bearings
2733/00	Arrangements for reducing the risk of running aground; Depth sounders	2751/00	Propulsion of ships using the reaction effect of a water jet
2734/00	Loading and unloading ships by ship-mounted means	2752/00	Propulsion of ships using the reaction effect of steam jets or gas jets
2735/00	Miscellaneous shipbuilding-related arrangements and constructions, e.g. pontoons	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