

# CPC COOPERATIVE PATENT CLASSIFICATION

## B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

### TRANSPORTING

## B63 SHIPS OR OTHER WATERBORNE VESSELS; RELATED EQUIPMENT

### B63B SHIPS OR OTHER WATERBORNE VESSELS; EQUIPMENT FOR SHIPPING (arrangements of vessel ventilation, heating, cooling, or air-conditioning [B63J 2/00](#); floating substructures as supports of dredgers or soil-shifting machines [E02F 9/06](#))

#### 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.

#### WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

<b>1/00</b>	<b>Hydrodynamic or hydrostatic features of hulls or of hydrofoils (hulls peculiar to submarines <a href="#">B63B 3/13</a>; keels <a href="#">B63B 3/38</a>)</b>	<b>1/121</b>	. . . . {comprising two hulls ( <a href="#">B63B 1/107</a> takes precedence)}
<b>2001/005</b>	. {Deflectors for spray, e.g. for guiding spray generated at the bow of a planing vessel underneath the hull}	<b>2001/123</b>	. . . . {interconnected by a plurality of beams, or the like members only}
<b>1/02</b>	. deriving lift mainly from water displacement ( <a href="#">B63B 1/16</a> takes precedence)	<b>1/125</b>	. . . . {comprising more than two hulls ( <a href="#">B63B 1/107</a> takes precedence)}
<b>1/04</b>	. . with single hull	<b>2001/126</b>	. . . . {comprising more than three hulls}
<b>1/041</b>	. . . {with disk-shaped hull}	<b>2001/128</b>	. . . . {comprising underwater connectors between the hulls}
<b>1/042</b>	. . . {the underpart of which being partly provided with channels or the like, e.g. catamaran shaped}	<b>1/14</b>	. . . the hulls being interconnected resiliently {or having means for actively varying hull shape or configuration ( <a href="#">collapsible</a> , <a href="#">foldable</a> , <a href="#">inflatable</a> or like vessels <a href="#">B63B 7/00</a> )}
<b>2001/044</b>	. . . {with a small waterline area compared to total displacement, e.g. of semi-submersible type}	<b>2001/145</b>	. . . . {having means for actively varying hull shape or configuration}
<b>2001/045</b>	. . . {with means for actively varying hull shape or configuration, e.g. for varying hydrodynamic characteristics}	<b>1/16</b>	. deriving additional lift from hydrodynamic forces
<b>1/047</b>	. . . {with spherical hull or hull in the shape of a vertical ring ( <a href="#">freely movable rolling hoops</a> , e.g. <a href="#">gyro wheels for exercising A63B 19/02</a> )}	<b>1/18</b>	. . of hydroplane type
<b>1/048</b>	. . . {with hull extending principally vertically}	<b>2001/183</b>	. . . {having non-floating planing surfaces, e.g. attached skis or plate-shaped bodies}
<b>1/06</b>	. . . Shape of fore part	<b>2001/186</b>	. . . {Sponsons; Arrangements thereof}
<b>1/063</b>	. . . . {Bulbous bows}	<b>1/20</b>	. . . having more than one planing surface ( <a href="#">B63B 1/22</a> takes precedence)
<b>2001/066</b>	. . . . {Substantially vertical stems}	<b>2001/201</b>	. . . . {divided by longitudinal chines}
<b>1/08</b>	. . . Shape of aft part	<b>2001/202</b>	. . . . {divided by transverse steps}
<b>1/10</b>	. . with multiple hulls	<b>2001/203</b>	. . . . {arranged in semi-catamaran configuration}
<b>2001/102</b>	. . . {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}	<b>2001/204</b>	. . . . {arranged on multiple hulls}
<b>1/105</b>	. . . {comprising a cockpit surrounded and pivotally supported by at least three floats}	<b>2001/205</b>	. . . . {the hulls being interconnected rigidly}
<b>1/107</b>	. . . {Semi-submersibles; Small waterline area multiple hull vessels and the like, e.g. <a href="#">SWATH</a> }	<b>2001/206</b>	. . . . . {comprising two hulls, e.g. catamarans}
<b>1/12</b>	. . . the hulls being interconnected rigidly {( <a href="#">B63B 1/107</a> takes precedence)}	<b>2001/207</b>	. . . . . {comprising more than two hulls}
		<b>2001/208</b>	. . . . . {comprising three hulls, e.g. trimarans}
		<b>2001/209</b>	. . . . . {the hulls being interconnected resiliently, or having means for actively varying hull shape or configuration}
		<b>1/22</b>	. . . with adjustable planing surfaces

1/24	. . of hydrofoil type (hydrofoils for water sports boards <a href="#">B63B 32/60</a> ; hydrofoils for other water sports body supporting devices <a href="#">B63B 34/40</a> )	3/06	. . . the sub-units being substantially identical
		3/08	. . with detachably-connected sub-units
	<b>WARNING</b>	2003/085	. . . {Multiple hull vessels, e.g. catamarans, assembled from detachably-connected sub-units}
	Groups <a href="#">B63B 1/24</a> - <a href="#">B63B 1/30</a> are impacted by reclassification into groups <a href="#">B63B 32/60</a> , <a href="#">B63B 32/62</a> , <a href="#">B63B 32/64</a> , <a href="#">B63B 32/66</a> , <a href="#">B63B 32/68</a> , <a href="#">B63B 34/40</a> , <a href="#">B63B 34/45</a> , and <a href="#">B63H 8/24</a> .	3/09	. Hulls constructed of non-magnetic metal
	All groups listed in this Warning should be considered in order to perform a complete search.	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 <a href="#">B63B 3/10</a> )
		3/142	. . {Connections between the shell and deck}
		2003/145	. . {Frameworks, i.e. load bearing assemblies of trusses and girders interconnected at nodal points}
1/242	. . . {Mounting, suspension of the foils ( <a href="#">B63B 1/30</a> takes precedence)}	2003/147	. . {Moon-pools, e.g. for offshore drilling vessels}
1/244	. . . {Safety systems, e.g. when striking an object}	3/16	. . Shells (ports or closures therefor <a href="#">B63B 19/00</a> )
1/246	. . . {Arrangements of propulsion elements}	3/18	. . . characterised by being formed predominantly of parts that may be developed into plane surfaces
1/248	. . . {Shape, hydrodynamic features, construction of the foil}	3/185	. . . . {comprising only flat panels}
1/26	. . . having more than one hydrofoil ( <a href="#">B63B 1/28</a> takes precedence)	3/20	. . . of double type
1/28	. . . with movable hydrofoils	3/22	. . . with corrugations
2001/281	. . . . {movable about an axis substantially parallel to the flow direction}	3/24	. . . Means for diminishing external ridges of protrusions
1/283	. . . . {movable around a vertical axis, e.g. for steering}	3/26	. . Frames
1/285	. . . . {changing the angle of attack or the lift of the foil}	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}
1/286	. . . . . {using flaps}	3/28	. . . of transverse type; Stringers
1/288	. . . . . {using gas exhaust through the foil}	3/30	. . . . Bilge knees; Beam knees
1/30	. . . . retracting or folding ( <a href="#">B63B 1/244</a> takes precedence)}	3/32	. . . Web frames; Web beams
1/32	. Other means for varying the inherent hydrodynamic characteristics of hulls	3/34	. . . of longitudinal type; Bulkhead connections
1/322	. . {using aerodynamic elements, e.g. aerofoils producing a lifting force (flying boats <a href="#">B64C 35/00</a> )}	3/36	. . . Combined frame systems
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}	3/38	. . Keels (movable keels <a href="#">B63B 41/00</a> )
2001/327	. . {using magneto-hydrodynamic forces}	2003/382	. . . {adapted for housing energy accumulators, e.g. batteries}
1/34	. . by reducing surface friction	2003/385	. . . {with means for controlling heeling or rolling motions, or lift, e.g. flaps, by changing geometry, or by ballast displacement}
2001/345	. . . {by ejecting friction reducing solids or liquids, e.g. polymers}	2003/387	. . . {adapted for housing propulsion plant elements}
1/36	. . . using mechanical means	3/40	. . Stern posts; Stern frames
1/38	. . . using air bubbles or air layers {gas filled volumes (waterborne vessels travelling on air cushions <a href="#">B60V 3/06</a> )}	3/42	. . Shaft brackets
2001/382	. . . . {by making use of supercavitation, e.g. for underwater vehicles}	2003/425	. . . {having features not related to structural construction, e.g. hydrodynamic properties or bearings}
2001/385	. . . . {using exhaust gas}	3/44	. . Bilge keels (stabilising aspect <a href="#">B63B 39/06</a> )
2001/387	. . . . {using means for producing a film of air or air bubbles over at least a significant portion of the hull surface}	3/46	. . Stems
1/40	. . by diminishing wave resistance	3/48	. . Decks (planking <a href="#">B63B 5/06</a> )
3/00	<b>Hulls characterised by their structure or component parts (non-metallic hulls <a href="#">B63B 5/00</a>; designing, building, maintaining or repairing methods <a href="#">B63B 71/00</a> - <a href="#">B63B 83/00</a>)</b>	2003/485	. . . {movably connected to hull or superstructure}
3/02	. Hulls assembled from prefabricated sub-units	3/50	. . . of vaulted type
3/04	. . with permanently-connected sub-units	3/52	. . . Pillars; Deck girders
		3/54	. . . Hatch openings
		3/56	. . Bulkheads; Bulkhead reinforcements (arrangements of watertight doors <a href="#">B63B 43/24</a> )
		3/58	. . . with flat plating
		3/60	. . . with curved or corrugated plating
		3/62	. . Double bottoms; Tank tops
		3/64	. . . Keelsons
		3/66	. . Gratings
		3/68	. . Panellings; Linings, e.g. for insulating purposes

3/70	. . Reinforcements for carrying localised loads, e.g. propulsion plant, guns	7/085	. . . {Accessories or mountings specially adapted therefor, e.g. seats, sailing kits, motor mountings}
<b>5/00</b>	<b>Hulls characterised by their construction of non-metallic material</b>		<b>WARNING</b>
5/02	. made predominantly of wood		Groups <a href="#">B63B 7/085</a> – <a href="#">B63B 7/087</a> are impacted by reclassification into groups <a href="#">B63B 32/30</a> , <a href="#">B63B 32/51</a> , <a href="#">B63B 32/77</a> , <a href="#">B63B 32/80</a> , <a href="#">B63B 32/83</a> , <a href="#">B63B 32/87</a> , <a href="#">B63B 34/22</a> , <a href="#">B63B 34/26</a> , <a href="#">B63B 34/30</a> , <a href="#">B63B 34/45</a> , <a href="#">B63B 34/565</a> , <a href="#">B63B 32/70</a> , <a href="#">B63H 8/23</a> , <a href="#">B63H 8/25</a> , <a href="#">B63H 8/50</a> , <a href="#">B63H 8/52</a> , <a href="#">B63H 8/54</a> , <a href="#">B63H 8/56</a> , <a href="#">B63H 8/58</a> and <a href="#">B63H 8/70</a> .
5/04	. . Carcasses		All groups listed in this Warning should be considered in order to perform a complete search.
5/06	. . Decks; Shells		
5/065	. . . {caulking decks (mortise chisels for wood <a href="#">B25D 3/00</a> )}		
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	7/087	. . . . {Motor mountings, e.g. transom panels for outboard motors}
5/22	. . with reinforcing members external to shell		
5/24	. made predominantly of plastics {(surf boards <a href="#">B63B 32/57</a> )}	<b>11/00</b>	<b>Interior subdivision of hulls (bulkhead space construction <a href="#">B63B 3/56</a>)</b>
2005/242	. . {made of a composite of plastics and other structural materials, e.g. wood or metal}	11/02	. Arrangement of bulkheads, e.g. defining cargo spaces
2005/245	. . . {made of a composite of plastics and metal}	11/04	. Constructional features of bunkers, {e.g. structural fuel tanks,} or ballast tanks, e.g. with elastic walls ({tanks for fuel or the like not forming subdivisions of the hull <a href="#">B63B 17/0027</a> ; } cleaning of tanks <a href="#">B63B 57/00</a> )
2005/247	. . . {made of a composite of plastics and wood}	11/06	. Propeller-shaft tunnels
<b>7/00</b>	<b>Collapsible, foldable, inflatable or like vessels (collapsible, foldable or inflatable water sports boards <a href="#">B63B 32/53</a>; collapsible, foldable or inflatable canoes, kayaks or the like <a href="#">B63B 34/23</a>; foldable pontoons <a href="#">B63B 35/36</a>)</b>	<b>13/00</b>	<b>Conduits for emptying or ballasting; Self-bailing equipment; Scuppers (draining means for hatches <a href="#">B63B 19/26</a>; centrifugal bilge-water separators <a href="#">B04</a>; {arrangements of installations for treating ballast water <a href="#">B63J 4/002</a>; } pipes in general <a href="#">F16L</a>)</b>
	<b>WARNING</b>	2013/005	. {Sea chests}
	Groups <a href="#">B63B 7/00</a> - <a href="#">B63B 2007/065</a> are impacted by reclassification into groups <a href="#">B63B 32/53</a> and <a href="#">B63B 34/23</a> .	13/02	. Ports for passing water through vessels' sides {(jet propulsors with clogging prevention means <a href="#">B63H 11/01</a> )}
	All groups listed in this Warning should be considered in order to perform a complete search.	<b>15/00</b>	<b>Superstructures {, deckhouses, wheelhouses or the like}; Arrangements or adaptations of masts {or spars, e.g. bowsprits}(loading or unloading equipment <a href="#">B63B 27/00</a>; masts and staying in general <a href="#">E04H</a>; sails, running rigging <a href="#">B63H</a>; {mounting ladders or the like on masts <a href="#">B63B 29/205</a>})</b>
2007/003	. {with foldable members}	2015/0008	. {Bowsprits}
2007/006	. {comprising nestable elements}	2015/0016	. {Masts characterized by mast configuration or construction}
7/02	. comprising only rigid parts	2015/0025	. . {Bipodded masts, e.g. A-type masts}
7/04	. . sectionalised (sectionalised water sports boards <a href="#">B63B 32/53</a> ; sectionalised canoes, kayaks or the like <a href="#">B63B 34/23</a> )	2015/0033	. . {Multipodded masts, e.g. tripod-type}
7/06	. having parts of non-rigid material	2015/0041	. . {Telescoping masts}
2007/065	. . {comprising flexible pockets for receiving removable floaters}	2015/005	. . {with means for varying mast position or orientation with respect to the hull}
7/08	. . Inflatable (inflatable water sports boards <a href="#">B63B 32/51</a> ; inflatable canoes, kayaks or the like being inflatable or having inflatable parts <a href="#">B63B 34/22</a> )	2015/0058	. . . {comprising active mast inclination means}
	<b>WARNING</b>	2015/0066	. . . {Inclinable masts with passive righting means, e.g. counterbalancing means}
	Groups <a href="#">B63B 7/08</a> - <a href="#">B63B 7/082</a> are impacted by reclassification into groups <a href="#">B63B 32/51</a> and <a href="#">B63B 34/22</a> .	2015/0075	. . . {with mast foot adapted for being moved, e.g. athwartship}
	All groups listed in this Warning should be considered in order to perform a complete search.	15/0083	. {Masts for sailing ships or boats}
7/082	. . . {having parts of rigid material}	2015/0091	. . {comprising means for silencing rope noise}
		15/02	. Staying of masts or of other superstructures

<b>17/00</b>	<b>Vessels parts, details, or accessories, not otherwise provided for</b> ( <a href="#">vehicle fittings for preventing or indicating unauthorised use or theft of vehicles in general B60R 25/00</a> ; <a href="#">propeller guards, line cutters or other means for protecting propellers or rudders B63H 5/165</a> ; <a href="#">protection of power legs of outboard propulsion units B63H 20/36</a> ; <a href="#">locking devices for boats, surfboards or parts or accessories thereof E05B 73/007</a> )	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}
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}	2019/0061	. . {comprising pivotally supported threaded locking bolts}
17/0018	. {Arrangements or devices specially adapted for facilitating access to underwater elements, e.g. to propellers ( <a href="#">retractable propellers B63H 5/125</a> ; <a href="#">tilting outboard propulsion units B63H 20/08</a> ); <a href="#">Externally attached cofferdams or the like (caissons adapted to laying foundations E02D 23/00 - E02D 27/00)</a> }	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}
17/0027	. {Tanks for fuel or the like ( <a href="#">constructional features of bunkers B63B 11/04</a> ); <a href="#">Accessories therefor, e.g. tank filler caps (fuel tanks for vehicles in general B60K 15/03</a> ; <a href="#">cargo tanks B63B 25/08</a> ; <a href="#">cleaning of tanks B63B 57/00</a> ; <a href="#">handling of liquids for use in power plants B63H 21/38</a> )}	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}
17/0036	. . {Arrangements for minimizing pollution by accidents (associated with cargo tanks <a href="#">B63B 25/082</a> )}	19/02	. Clear-view screens; { <a href="#">Windshields (canopies connected to windshields B63B 17/02)</a> }
2017/0045	. {Caps, hoods, or the like devices for protective purposes, not otherwise provided for}	19/04	. Air-catching equipment related to windows or port-holes ( <a href="#">ventilation B63J 2/00</a> )
2017/0054	. {Rests or supports for movable ship-borne equipment}	19/06	. . readily detachable
2017/0063	. . {Boom rests, i.e. props for main sail booms, derricks, or the like}	19/08	. Ports or like openings in vessels' sides {or at the vessels' bow or stern ( <a href="#">forming ramps when open B63B 27/143</a> )}
2017/0072	. {Seaway compensators}	2019/083	. . {Bow ports, e.g. for ferries}
17/0081	. {Vibration isolation or damping elements or arrangements, e.g. elastic support of deck-houses ( <a href="#">mounting of propulsion plant or unit B63H 21/30</a> ; <a href="#">vibration dampers, suppression of vibration in systems F16F</a> )}	2019/086	. . {Stern ports, e.g. for ferries or Ro-Ro-vessels}
		19/10	. . Coal ports
2017/009	. {Wave breakers, breakwaters, splashboards, or the like}	19/12	. Hatches; Hatchways ( <a href="#">hatch coamings B63B 3/54</a> )
17/02	. Awnings {, including rigid weather protection structures, e.g. sunroofs; Tarpaulins; Accessories for awnings or tarpaulins}	19/14	. . Hatch covers ( <a href="#">opening devices in general E05F</a> )
17/023	. . {Hatchway tents, e.g. for weather protection of cargo during loading or unloading}	2019/145	. . . {with means for adjusting size, e.g. width}
2017/026	. . {Rigid awnings, or sunroofs}	19/16	. . . with detachable boards
17/04	. Stanchions; Guard-rails {; Bulwarks or the like}	19/18	. . . slidable
2017/045	. . {Bulwarks, or the like}	2019/185	. . . . {with sliding bearings}
17/06	. Refuse discharge, e.g. for ash ( <a href="#">arrangements of installations for treating refuse or sludge, e.g. tank washing sludge B63J 4/00</a> ; ) <a href="#">removal of domestic or like refuse B65F</a> )	19/19	. . . foldable
		19/197	. . . . actuated by fluid pressure
<b>19/00</b>	<b>Arrangements or adaptations of ports, doors, windows, port-holes, or other openings or covers</b> ( <a href="#">scuppers B63B 13/00</a> ; <a href="#">arrangements of watertight doors in bulkheads B63B 43/24</a> )	19/203	. . . . actuated by cables or the like
2019/0007	. {Ship's windows}	19/21	. . . of roll-up type
2019/0015	. . {Bull's eyes, or the like ship's windows}	19/22	. . Hatch beams
2019/0023	. . . {Pivotal bull's eyes with central pivoting axis}	19/24	. . Hatch fastenings, e.g. cleats
2019/003	. . . {Pivotal bull's eyes with peripheral hinge axis}	2019/245	. . . {Loose or removable fastening members specially adapted for fastening hatch covers to coamings, sills, or the like}
2019/0038	. . {Ship's windows, other than bull's eyes}	19/26	. . Gaskets; Draining means
		19/28	. . Other safety means
		<b>21/00</b>	<b>Tying-up; Shifting, towing, or pushing equipment; Anchoring</b> ( <a href="#">of buoys B63B 22/04</a> ; ) <a href="#">dynamic anchoring B63H 25/00</a> {; <a href="#">equipment for shipping on coasts, in harbours or on other fixed marine structures, e.g. for landing purposes, E02B</a> )}
			<b>WARNING</b>
			Group <a href="#">B63H 21/00</a> 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 <a href="#">B63B 21/20</a>
2019/0007	. {Ship's windows}	2021/001	. {Mooring bars, yokes, or the like, e.g. comprising articulations on both ends}
2019/0015	. . {Bull's eyes, or the like ship's windows}	2021/002	. . {Yokes, or the like}
2019/0023	. . . {Pivotal bull's eyes with central pivoting axis}	2021/003	. {Mooring or anchoring equipment, not otherwise provided for}
2019/003	. . . {Pivotal bull's eyes with peripheral hinge axis}	2021/004	. . {Quick release elements in mooring connections}
2019/0038	. . {Ship's windows, other than bull's eyes}	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}	21/42	. . . . of ploughshare type
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}	21/44	. . . with two or more flukes
2021/008	. . {Load monitors}	21/46	. . with variable {, e.g.} sliding, connection to the chain {, especially for facilitating the retrieval of the anchor}
2021/009	. . {Drift monitors}	21/48	. . Sea-anchors; Drogues
21/02	. Magnetic mooring equipment	21/50	. Anchoring arrangements {or methods} for special vessels, e.g. for floating drilling platforms or dredgers
21/04	. Fastening or guiding equipment for chains, ropes, hawsers, or the like {(means for fastening cables or ropes in general F16G 11/00)}	2021/501	. . {by means of articulated towers, i.e. slender substantially vertically arranged structures articulated near the sea bed}
21/045	. . {T-shaped cleats}	21/502	. . {by means of tension legs}
21/06	. . Bollards	2021/504	. . . {comprising suppressors for vortex induced vibrations}
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})	2021/505	. . {Methods for installation or mooring of floating offshore platforms on site}
21/10	. . Fairleads	21/507	. . {with mooring turrets}
21/12	. . Rat guards	21/508	. . . {connected to submerged buoy (mooring buoys per se B63B 22/02)}
21/14	. . Hawse-holes; Hawse-pipes; Hawse-hole closures	21/54	. Boat-hooks or the like {, e.g. hooks detachably mounted to a pole}
21/16	. using winches (winches per se B66D)	21/56	. Towing or pushing equipment (tugs B63B 35/66; towing arrangements for water sports use B63B 34/60)
21/18	. Stoppers for anchor chains {(anchor capstans B66D 1/72)}	2021/563	. . {Pushing equipment}
21/20	. Adaptations of chains, ropes, hawsers, or the like, or of parts thereof	2021/566	. . {comprising running ropes or chains, e.g. endless, driven by ground-borne equipment}
2021/203	. . {Mooring cables or ropes, hawsers, or the like; Adaptations thereof}	21/58	. . Adaptations of hooks for towing; Towing-hook mountings (hooks in general F16B)
2021/206	. . {Weights attached to mooring lines or chains, or the like; Arrangements thereof}	21/60	. . . Quick releases
21/22	. Handling or lashing of anchors	21/62	. . characterised by moving of more than one vessel (rigid interconnections between pontoons B63B 35/38)
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}	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)
2021/225	. . {Marker buoys for indicating position of an anchor, or for providing a line connection between the anchor and the water surface}	21/66	. . Equipment specially adapted for towing underwater objects or vessels, e.g. fairings for tow-cables ({paravanes for dragging fishing nets A01K 73/02; } salvaging underwater vessels or objects B63C 7/00; towed underwater vessels B63G 8/42)
21/227	. . {Stowing the anchor inside the vessel by hauling-in through an aperture in the side walls, stern or bottom}	21/663	. . . {Fairings}
21/24	. Anchors	2021/666	. . . {for intermittent towing}
21/243	. . {foldable or capable of being disassembled (Anchors with two or more foldable flukes B63B 21/36)}	22/00	<b>Buoys</b> ({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})
2021/246	. . {comprising elements yielding at a predetermined load, e.g. shear bolts}	22/003	. . {adapted for being launched from an aircraft or water vehicle; e.g. with brakes deployed in the water}
21/26	. . securing to bed	2022/006	. . {specially adapted for measuring or watch purposes}
2021/262	. . . {by drag embedment}	22/02	. specially adapted for mooring a vessel
2021/265	. . . {by gravity embedment, e.g. by dropping a pile-type anchor from a certain height}		
2021/267	. . . {by penetration of anchor into the sea bed using water jets, e.g. by ground or sand fluidisation}		
21/27	. . . by suction		
21/28	. . . driven in by explosive charge		
21/29	. . . by weight, e.g. flukeless weight anchors		
21/30	. . rigid when in use {(B63B 21/28 takes precedence)}		
21/32	. . . with one fluke		
21/34	. . . with two or more flukes		
21/36	. . . . foldable		
21/38	. . pivoting when in use {(B63B 21/28 takes precedence)}		
21/40	. . . with one fluke		

22/021	. . {and for transferring fluids, e.g. liquids (container type buoys having means to selectively release contents, not adapted for mooring a vessel <a href="#">B63B 22/26</a> )}	23/22	. . . . Slings or the like therefor
22/023	. . . {submerged when not in use (container type buoys submerged when not in use, not adapted for mooring a vessel <a href="#">B63B 22/28</a> ; connected to turret <a href="#">B63B 21/508</a> )}	23/24	. . . Slewing equipment therefor
22/025	. . . {and comprising a restoring force in the mooring connection provided by means of weight, float or spring devices}	23/26	. . with rectilinear translation of boat before lowering
22/026	. . . {and with means to rotate the vessel around the anchored buoy (turrets <a href="#">B63B 21/507</a> )}	23/28	. Devices for projecting or releasing boats for free fall
2022/028	. . {submerged, e.g. fitting into ship-borne counterpart with or without rotatable turret, or being releasably connected to moored vessel}	23/30	. Devices for guiding boats to water surface
22/04	. {Fixations or other} anchoring arrangements	23/32	. . Rigid guides, e.g. having arms pivoted near waterline
22/06	. . with means to cause the buoy to surface in response to a transmitted signal {( <a href="#">B63B 22/023</a> takes precedence)}	23/34	. . Guiding means for lowering by cables, e.g. for listing ships
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	23/36	. . . Skid fenders
22/10	. . . Water soluble or water weakened means, i.e. buoy released by buoy-to-object securing means being destroyed on contact with water	23/38	. Transport of boats to davits or the like
22/12	. . . the surfacing of the buoy being assisted by a gas released or generated on submergence of the buoy	23/40	. Use of lowering or hoisting gear
22/14	. . . Buoy-to-object securing means responsive to hydrostatic pressure	23/42	. . with braking equipment
22/16	. specially adapted for marking a navigational route (signalling or lighting devices <a href="#">B63B 45/00</a> )	23/44	. . . on the ship
22/163	. . {comprising a bell or other audible signal}	23/46	. . . in the boat
22/166	. . {comprising a light}	23/48	. . using winches for boat handling ( <a href="#">winches per se B66D</a> )
22/18	. having means to control attitude or position, e.g. reaction surfaces or tether	23/50	. . . with tensioning gear
22/20	. . Ballast means	23/52	. . . with control of winches from boat
22/22	. Inflatable buoys with gas generating means ( <a href="#">B63B 22/12</a> takes precedence)	23/54	. . with trimming equipment
22/24	. container type, i.e. having provision for the storage of material	23/56	. . . controlled from boat
22/26	. . having means to selectively release contents, e.g. swivel couplings {( <a href="#">B63B 22/021</a> takes precedence; } arrangements between ships and off-shore structures for loading or unloading, using pipe lines <a href="#">B63B 27/34</a> ; pipe joints or couplings, in general <a href="#">F16L</a> )	23/58	. . with tackle engaging or release gear
22/28	. . submerged when not in use {( <a href="#">B63B 22/023</a> takes precedence)}	23/60	. . Additional connections between boat and davits
<b>23/00</b>	<b>Equipment for handling lifeboats or the like</b>	23/62	. Fastening or storing of boats on deck
23/02	. Davits, i.e. devices having arms for lowering boats by cables or the like	23/64	. . Lashings; Covers
23/04	. . with arms pivoting on substantially horizontal axes, e.g. gravity type	23/66	. . Blocks; Chocks
23/06	. . . with actual pivots	23/68	. . . for stacking boats
23/08	. . . . the arms being articulated	23/70	. Condition-responsive handling equipment, e.g. automatic release of boat from lowering tackle upon contact with water
23/10	. . . . with positive drive of the arms	<b>25/00</b>	<b>Load-accommodating arrangements, e.g. stowing, trimming; Vessels characterised thereby (trimming otherwise than by cargo division, e.g. by use of ballast <a href="#">B63B 43/06</a>, <a href="#">B63B 43/08</a>; constructive aspects of cargo spaces <a href="#">B63B 11/00</a>; hatches, hatchways <a href="#">B63B 19/12</a>)</b>
23/12	. . . with simulated pivots	25/002	. {for goods other than bulk goods (detachable decks <a href="#">B63B 25/18</a> ; palletised articles <a href="#">B63B 25/22</a> ; frozen goods <a href="#">B63B 25/26</a> ; deck loads <a href="#">B63B 25/28</a> )}
23/14	. . . . using linkages	25/004	. . {for containers ( <a href="#">B63B 25/28</a> takes precedence)}
23/16	. . . . using guide tracks	25/006	. . {for floating containers, barges or other floating cargo (for transporting marine vessels <a href="#">B63B 35/40</a> )}
23/18	. . with arms pivoting on substantially vertical axes	25/008	. . {for wheeled cargo ( <a href="#">B63B 25/20</a> takes precedence)}
23/20	. . . Davits with single arms ( <a href="#">cranes in general B66C</a> )	25/02	. for bulk goods
		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}
		2025/027	. . . {Ore-bulk-oil carriers}
		25/04	. . solid
		25/06	. . . for cereals
		25/08	. fluid {(constructional features of bunkers <a href="#">B63B 11/04</a> ; tanks for fuel or the like not forming bunkers <a href="#">B63B 17/0027</a> )}
		25/082	. . . {Arrangements for minimizing pollution by accidents (associated with tanks for fuel or the like not forming bunkers <a href="#">B63B 17/0036</a> )}
		2025/085	. . . {comprising separation membranes}
		2025/087	. . . {comprising self-contained tanks installed in the ship structure as separate units}

25/10	. . . open to ambient air	29/00	<b>Accommodation for crew or passengers not otherwise provided for</b>
25/12	. . . closed	29/02	. Cabins or other living spaces; Construction or arrangement thereof
25/14	. . . . pressurised	2029/022	. . {Bathing platforms}
25/16	. . . . heat-insulated ( <a href="#">insulating panelling B63B 3/68</a> ; <a href="#">heating or cooling B63J</a> )	29/025	. . {Modular or prefabricated cabins}
25/18	. Detachable decks	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}
25/20	. . for motor vehicles or the like	29/04	. . Furniture peculiar to vessels ( <a href="#">floatable furniture B63C 9/30</a> )
25/22	. for palletised articles	2029/043	. . . {Seats; Arrangements thereof on vessels}
25/24	. Means for preventing unwanted cargo movement, e.g. dunnage	2029/046	. . . {Tables, e.g. foldable or stowable}
2025/245	. . {of wheeled cargo, e.g. vehicle retainers}	29/06	. . . Fastening to floors
25/26	. for frozen goods	29/08	. . . Storm guards on tables, e.g. fiddles
25/28	. for deck loads	29/10	. . . Berths; Mounting ladders therefor
2025/285	. . {Means for securing deck containers against unwanted movements}	29/12	. . . Self-levelling mountings
27/00	<b>Arrangement of ship-based loading or unloading equipment for cargo or passengers (self-discharging barges or lighters <a href="#">B63B 35/30</a>; floating cranes <a href="#">B66C 23/52</a>)</b>	29/14	. . Closet or like flushing arrangements; Washing or bathing facilities peculiar to ships
27/04	. of derricks {, i.e. employing ships' masts}	2029/145	. . . {Collapsible or non-permanent privacy rooms, e.g. closets or changing rooms}
27/06	. . {with slewing force exerted at pivoted end}	29/16	. Soil water discharges {( <a href="#">arrangements of installations for treating waste water or sewage B63J 4/006</a> )}
27/08	. of winches	29/18	. Arrangements or adaptations of swimming pools
27/10	. of cranes	29/20	. Arrangements or adaptations of ladders ( <a href="#">mounting ladders for berths B63B 29/10</a> )
27/12	. . of gantry type	29/205	. . {on masts}
27/14	. of ramps, gangways or outboard ladders {; <a href="#">Pilot lifts</a> }	29/22	. Galleys
2027/141	. . {telescopically extendable}	32/00	<b>Water sports boards; Accessories therefor</b>
27/143	. . {Ramps}		<b>NOTE</b>
2027/145	. . . {Inflatable ramps}		This group covers: floating structures having a substantially thin body with respect to the width, usually meant to carry one user, which are specially adapted for water sports or leisure, e.g. surfboards, windsurfing boards, wakeboards, stand-up paddle [SUP] boards or water skis; accessories for such structures.
27/146	. . {Pilot ladders or similar outboard ladders, e.g. bathing ladders; Pilot lifts}		
2027/148	. . . {Pilot lifts}		
27/16	. of lifts or hoists {( <a href="#">pilot lifts B63B 27/146</a> )}		
2027/165	. . {Deployment or recovery of underwater vehicles using lifts or hoists}		
27/18	. of cableways, e.g. with breeches-buoys		
27/19	. {Other loading or unloading equipment involving an intermittent action, not provided in groups <a href="#">B63B 27/04</a> - <a href="#">B63B 27/18</a> }		
27/22	. of conveyers, e.g. of endless-belt or screw-type {( <a href="#">arrangements of devices with throwing action B63B 27/26</a> ; <a href="#">arrangements of chutes B63B 27/28</a> )}		
27/24	. of pipe-lines		
27/25	. . for fluidised bulk material		
27/26	. of devices with throwing action		
27/28	. of chutes		
27/29	. {Other loading or unloading equipment involving a continuous action, not provided in groups <a href="#">B63B 27/22</a> - <a href="#">B63B 27/28</a> }		
27/30	. {Arrangement of ship-based loading or unloading equipment} for transfer at sea between ships or between ships and off-shore structures		
27/32	. . using cableways		
27/34	. . using pipe-lines {( <a href="#">anchoring arrangements for special vessels with mooring turrets B63B 21/507</a> ; buoys specially adapted for mooring a vessel and for transferring fluids, e.g. liquids <a href="#">B63B 22/021</a> )}		
27/36	. {Arrangement of ship-based loading or unloading equipment} for floating cargo {( <a href="#">deployment or recovery of underwater vehicles using lifts of hoists B63B 27/16</a> )}		

## B63B

B63B 32/00  
(continued)

### **WARNING**

Group [B63B 32/00](#) is incomplete pending reclassification of documents from group [B63B 35/00](#).

Group [B63B 32/00](#) is also impacted by reclassification into groups [A63B 69/0093](#), [B63B 32/10](#), [B63B 32/20](#), [B63B 32/22](#), [B63B 32/30](#), [B63B 32/35](#), [B63B 32/40](#), [B63B 32/45](#), [B63B 32/47](#), [B63B 32/50](#), [B63B 32/51](#), [B63B 32/53](#), [B63B 32/55](#), [B63B 32/56](#), [B63B 32/57](#), [B63B 32/59](#), [B63B 32/60](#), [B63B 32/62](#), [B63B 32/64](#), [B63B 32/66](#), [B63B 32/68](#), [B63B 32/70](#), [B63B 32/73](#), [B63B 32/77](#), [B63B 32/80](#), [B63B 32/83](#), [B63B 32/87](#), [B63B 34/30](#), [B63B 34/45](#), [B63B 34/50](#), [B63B 34/52](#), [B63B 34/54](#), [B63B 34/56](#), [B63B 34/565](#), [B63B 34/70](#), [B63B 34/75](#), [B63H 8/23](#), [B63H 8/24](#), [B63H 8/25](#), [B63H 8/50](#), [B63H 8/52](#), [B63H 8/54](#), [B63H 8/56](#), [B63H 8/58](#), [B63H 8/70](#) and [E04H 4/0006](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 32/10 . Motor-propelled water sports boards (power-driven personal watercraft [B63B 34/10](#))

### **WARNING**

Group [B63B 32/10](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#) and [B63B 35/00](#).

Groups [B63B 32/00](#), [B63B 35/00](#), [B63B 32/10](#) should be considered in order to perform a complete search.

- 32/20 . Boards specially adapted for use in a prone position, e.g. wild-water sledges (towed water sledges [B63B 34/54](#))

### **WARNING**

Group [B63B 32/20](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#) and [B63B 35/00](#).

Group [B63B 32/20](#) is also impacted by reclassification into groups [A63B 69/0093](#), [B63B 32/22](#), [B63B 32/30](#), [B63B 32/40](#), [B63B 32/50](#), [B63B 32/57](#), [B63B 32/59](#), [B63B 34/50](#), [B63B 34/52](#), [B63B 34/54](#), [B63B 34/56](#), [B63B 34/70](#), [B63B 34/75](#) and [E04H 4/0006](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 32/22 . . Bodyboards for surfing; Accessories specially adapted therefor

### **WARNING**

Group [B63B 32/22](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#), [B63B 32/20](#) and [B63B 35/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

32/30

- . Water skis fastened to the user's feet; Accessories specially adapted therefor

### **WARNING**

Group [B63B 32/30](#) is incomplete pending reclassification of documents from groups [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/20](#), [B63B 32/70](#) and [B63B 35/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

32/35

- . . {[Bindings](#)}

### **WARNING**

Group [B63B 32/35](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#) and [B63B 35/00](#).

Group [B63B 32/35](#) is also impacted by reclassification into group [B63B 32/47](#).

All groups listed in this Warning should be considered in order to perform a complete search.

32/40

- . Twintip boards; Wakeboards; Surfboards; Windsurfing boards; Paddle boards, e.g. SUP boards; Accessories specially adapted therefor

### **WARNING**

Group [B63B 32/40](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#), [B63B 32/20](#), [B63B 32/50](#) and [B63B 35/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

32/45

- . . {[Fixation means for feet of the board user, e.g. footstraps](#)}

### **WARNING**

Group [B63B 32/45](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#) and [B63B 35/00](#).

Group [B63B 32/45](#) is also impacted by reclassification into groups [B63B 32/47](#) and [B63B 32/77](#).

All groups listed in this Warning should be considered in order to perform a complete search.

32/47

- . . . {[Bindings, e.g. wakeboard bindings](#)}

### **WARNING**

Group [B63B 32/47](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#), [B63B 32/35](#), [B63B 32/45](#) and [B63B 35/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.



- 32/50 . Boards characterised by their constructional features
- WARNING**
- Group [B63B 32/50](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#), [B63B 32/20](#) and [B63B 35/00](#).
- Group [B63B 32/50](#) is also impacted by reclassification into groups [B63B 32/40](#), [B63B 32/57](#) and [B63B 32/59](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 32/51 . . Inflatable boards, e.g. drop-stitch inflatable boards
- WARNING**
- Group [B63B 32/51](#) is incomplete pending reclassification of documents from groups [B63B 7/08](#), [B63B 7/082](#), [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#) and [B63B 35/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 32/53 . . Sectionalised boards, e.g. modular, dismountable or foldable boards
- WARNING**
- Group [B63B 32/53](#) is incomplete pending reclassification of documents from groups [B63B 7/00](#), [B63B 2007/003](#), [B63B 2007/006](#), [B63B 7/02](#), [B63B 7/04](#), [B63B 7/06](#), [B63B 2007/065](#), [B63B 32/00](#) and [B63B 35/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 32/55 . . Multihull boards, e.g. of catamaran type
- WARNING**
- Group [B63B 32/55](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#) and [B63B 35/00](#).
- Groups [B63B 32/00](#), [B63B 35/00](#) and [B63B 32/55](#) should be considered in order to perform a complete search.
- 32/56 . . Boards convertible into vessels or other types of water sports boards, e.g. into sailboats, canoes or water-cycles
- WARNING**
- Group [B63B 32/56](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#) and [B63B 35/00](#).
- Groups [B63B 32/00](#), [B63B 35/00](#) and [B63B 32/56](#) should be considered in order to perform a complete search.
- 32/57 . Boards characterised by the material, e.g. laminated materials
- WARNING**
- Group [B63B 32/57](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#), [B63B 32/20](#), [B63B 32/50](#) and [B63B 35/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 32/59 . Boards characterised by their manufacturing process, e.g. moulded or 3D printed
- WARNING**
- Group [B63B 32/59](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#), [B63B 32/20](#), [B63B 32/50](#) and [B63B 35/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 32/60 . Board appendages, e.g. fins, hydrofoils or centre boards
- WARNING**
- Group [B63B 32/60](#) is incomplete pending reclassification of documents from groups [B63B 1/24](#) - [B63B 1/30](#), [B63B 32/00](#) and [B63B 35/00](#).
- Group [B63B 32/60](#) is also impacted by reclassification into groups [B63B 32/62](#) and [B63B 32/64](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 32/62 . . characterised by the material, e.g. laminated materials; characterised by their manufacturing process
- WARNING**
- Group [B63B 32/62](#) is incomplete pending reclassification of documents from groups [B63B 1/24](#) - [B63B 1/30](#), [B63B 32/00](#), [B63B 32/60](#) and [B63B 35/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 32/64 . . Adjustable, e.g. by adding sections, by removing sections or by changing orientation or profile
- WARNING**
- Group [B63B 32/64](#) is incomplete pending reclassification of documents from groups [B63B 1/24](#) - [B63B 1/30](#), [B63B 32/00](#), [B63B 32/60](#) and [B63B 35/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.

- 32/66 . . Arrangements for fixation to the board, e.g. fin boxes or foil boxes

**WARNING**

Group [B63B 32/66](#) is incomplete pending reclassification of documents from groups [B63B 1/24](#) - [B63B 1/30](#), [B63B 32/00](#), [B63B 35/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 32/68 . Mast foot attachments, e.g. mast foot rails

**WARNING**

Group [B63B 32/68](#) is incomplete pending reclassification of documents from groups [B63B 1/24](#) - [B63B 1/30](#), [B63B 32/00](#) and [B63B 35/00](#).

Group [B63B 32/68](#) is also impacted by reclassification into group [B63H 8/24](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 32/70 . Accessories not specially adapted for a particular type of board, e.g. paddings or buoyancy elements

**WARNING**

Group [B63B 32/70](#) is incomplete pending reclassification of documents from groups [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#) and [B63B 35/00](#).

Group [B63B 32/70](#) is also impacted by reclassification into groups [B63B 32/30](#), [B63B 32/77](#), [B63B 32/80](#), [B63B 32/83](#), [B63B 32/87](#), [B63B 34/30](#), [B63B 34/45](#), [B63B 34/565](#), [B63H 8/23](#), [B63H 8/25](#), [B63H 8/50](#), [B63H 8/52](#), [B63H 8/54](#), [B63H 8/56](#), [B63H 8/58](#) and [B63H 8/70](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 32/73 . . for tethering users or objects to the board, e.g. leashes

**WARNING**

Group [B63B 32/73](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#) and [B63B 35/00](#).

Groups [B63B 32/00](#), [B63B 35/00](#) and [B63B 32/73](#) should be considered in order to perform a complete search.

- 32/77 . Arrangements for fixation of accessories to the board, e.g. inserts or rails

**WARNING**

Group [B63B 32/77](#) is incomplete pending reclassification of documents from groups [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/45](#), [B63B 32/70](#) and [B63B 35/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 32/80 . Arrangements specially adapted for stowing or transporting water sports boards

**WARNING**

Group [B63B 32/80](#) is incomplete pending reclassification of documents from groups [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#) and [B63B 35/00](#).

Group [B63B 32/80](#) is also impacted by reclassification into groups [B63B 32/83](#), [B63B 32/87](#) and [B63H 8/70](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 32/83 . . for stowing, e.g. racks or straps

**WARNING**

Group [B63B 32/83](#) is incomplete pending reclassification of documents from groups [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#), [B63B 32/80](#) and [B63B 35/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 32/87 . . for carrying, e.g. board bags

**WARNING**

Group [B63B 32/87](#) is incomplete pending reclassification of documents from groups [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#), [B63B 32/80](#) and [B63B 35/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 34/00 **Vessels specially adapted for water sports or leisure; Body-supporting devices specially adapted for water sports or leisure (water sports boards [B63B 32/00](#); swimming frameworks [A63B 35/00](#); propulsion arrangements actuated by muscle power [B63H 16/00](#))**

**NOTE**

This group covers floating structures supporting the user's body and moving on the water surface, which are specially adapted for water sports or leisure.

**WARNING**

Group [B63B 34/00](#) is incomplete pending reclassification of documents from group [B63B 35/00](#).

Group [B63B 34/00](#) is also impacted by reclassification into groups [B63B 34/10](#) and [B63B 34/15](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 34/05 . {Vessels specially adapted for hunting or fishing}

- 34/10 . Power-driven personal watercraft, e.g. water scooters ([water jet propulsion B63H 11/00](#); [jet steering B63H 25/46](#)); Accessories therefor
- WARNING**
- Group [B63B 34/10](#) is incomplete pending reclassification of documents from groups [B63B 34/00](#) and [B63B 35/00](#).
- Group [B63B 34/10](#) is also impacted by reclassification into group [B63B 34/15](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 34/15 . . for hydroflight sports
- WARNING**
- Group [B63B 34/15](#) is incomplete pending reclassification of documents from groups [B63B 34/00](#), [B63B 34/10](#), [B63B 35/00](#) and [B64C 39/026](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 34/20 . Canoes, kayaks or the like
- WARNING**
- Group [B63B 34/20](#) is impacted by reclassification into groups [B63B 34/21](#), [B63B 34/22](#) and [B63B 34/23](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 34/21 . . characterised by constructional features
- WARNING**
- Group [B63B 34/21](#) is incomplete pending reclassification of documents from group [B63B 34/20](#).
- Groups [B63B 34/20](#) and [B63B 34/21](#) should be considered in order to perform a complete search.
- 34/22 . . . Inflatable; having inflatable parts
- WARNING**
- Group [B63B 34/22](#) is incomplete pending reclassification of documents from groups [B63B 7/08](#), [B63B 7/082](#), [B63B 7/085](#), [B63B 7/087](#) and [B63B 34/20](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 34/23 . . . Sectionalised, e.g. modular, collapsible or foldable
- WARNING**
- Group [B63B 34/23](#) is incomplete pending reclassification of documents from groups [B63B 7/00](#), [B63B 2007/003](#), [B63B 2007/006](#), [B63B 7/02](#), [B63B 7/04](#), [B63B 7/06](#), [B63B 2007/065](#) and [B63B 34/20](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 34/26 . Accessories for canoes, kayaks or the like ([effecting propulsion by muscle power B63H 16/00](#); [outboard propulsion units B63H 20/00](#))
- WARNING**
- Group [B63B 34/26](#) is incomplete pending reclassification of documents from groups [B63B 7/085](#) and [B63B 7/087](#).
- Groups [B63B 7/085](#) and [B63B 7/087](#) and [B63B 34/26](#) should be considered in order to perform a complete search.
- 34/30 . Rowing boats specially adapted for racing; Accessories therefor ([effecting propulsion by rowing B63H 16/00](#))
- WARNING**
- Group [B63B 34/30](#) is incomplete pending reclassification of documents from groups [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#) and [B63B 35/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 34/40 . Body-supporting structures dynamically supported by foils under water
- WARNING**
- Group [B63B 34/40](#) is incomplete pending reclassification of documents from groups [B63B 1/24](#) - [B63B 1/30](#).
- All groups listed in this Warning should be considered in order to perform a complete search.
- 34/45 . . Accessories therefor
- WARNING**
- Group [B63B 34/45](#) incomplete pending reclassification of documents from groups [B63B 1/24](#) - [B63B 1/30](#), [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#) and [B63B 35/00](#).
- All groups listed in this Warning should be considered in order to perform a complete search.

- 34/50 . Body-supporting buoyant devices, e.g. bathing boats or water cycles ([swimming aids A63B 31/00](#))

**WARNING**

Group [B63B 34/50](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#), [B63B 32/20](#) and [B63B 35/00](#).

Group [B63B 34/50](#) is also impacted by reclassification into groups [B63B 34/52](#), [B63B 34/54](#) and [B63B 34/56](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 34/52 . . Inflatable or partly inflatable

**WARNING**

Group [B63B 34/52](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#), [B63B 32/20](#), [B63B 34/50](#) and [B63B 35/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 34/54 . . specially adapted for being towed, e.g. banana boats, water sledges or towed buoys ([arrangements for towing B63B 34/60](#))

**WARNING**

Group [B63B 34/54](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#), [B63B 32/20](#), [B63B 34/50](#) and [B63B 35/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 34/56 . . for use in a standing position, e.g. water shoes, water walking devices or buoyant skis

**WARNING**

Group [B63B 34/56](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#), [B63B 32/20](#), [B63B 34/50](#) and [B63B 35/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 34/565 . . Accessories, e.g. sticks for water walking

**WARNING**

Group [B63B 34/565](#) is incomplete pending reclassification of documents from groups [B63B 7/085](#), [B63B 7/087](#), [B63B 32/00](#), [B63B 32/70](#) and [B63B 35/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 34/60 . Arrangements for towing, e.g. for use with water-skis or wakeboards
- 34/63 . . Holding means for the user, e.g. handle bars or harnesses
- 34/67 . . Connection means on the towing watercraft, e.g. pylons, side poles or winches

- 34/70 . Arrangements on vessels specially adapted for generating waves for surfing, wakeboarding or the like, e.g. ballast tanks

**WARNING**

Group [B63B 34/70](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#), [B63B 32/20](#) and [B63B 35/00](#).

Group [B63B 34/70](#) is also impacted by reclassification into groups [A63B 69/0093](#), [B63B 34/75](#) and [E04H 4/0006](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 34/75 . . Arrangements of wake plates

**WARNING**

Group [B63B 34/75](#) is incomplete pending reclassification of documents from groups [B63B 32/00](#), [B63B 32/20](#), [B63B 34/70](#) and [B63B 35/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 35/00 **Vessels or similar floating structures specially adapted for specific purposes and not otherwise provided for**

**WARNING**

Group [B63B 35/00](#) is impacted by reclassification into groups [A63B 69/0093](#), [B63B 32/00](#) - [B63B 32/87](#), [B63B 34/00](#), [B63B 34/10](#), [B63B 34/15](#), [B63B 34/30](#), [B63B 34/45](#) - [B63B 34/565](#), [B63B 34/70](#), [B63B 34/75](#), [B63H 8/23](#), [B63H 8/24](#), [B63H 8/25](#), [B63H 8/50](#) - [B63H 8/70](#) and [E04H 4/0006](#).

All groups listed in this Warning should be considered in order to perform a complete search.

- 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**
- Subject matter concerning vessels, or floating structures adapted at the same time for another 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](#).
- 35/083 . . {Ice-breakers ([B63B 35/10](#), [B63B 35/12](#) take precedence)}
- 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 75/00](#))}
- 35/4406 . . {Articulated towers, i.e. substantially floating structures comprising a slender tower-like hull anchored relative to the marine bed by means of a single articulation, e.g. using an articulated bearing}
- 35/4413 . . {Floating drilling platforms, e.g. carrying water-oil separating devices}
- 2035/442 . . {Spar-type semi-submersible structures, i.e. shaped as single slender, e.g. substantially cylindrical or trussed vertical bodies}
- 2035/4426 . . {Stationary floating buildings for human use, e.g. floating dwellings or floating restaurants}
- 2035/4433 . . {Floating structures carrying electric power plants}
- 2035/444 . . . {for converting combustion energy into electric energy}
- 2035/4446 . . . {for converting nuclear energy into electric energy}
- 2035/4453 . . . {for converting solar energy into electric energy}
- 2035/446 . . . {for converting wind energy into electric energy}
- 2035/4466 . . . {for converting water energy into electric energy, e.g. from tidal flows, waves or currents}
- 2035/4473 . . {Floating structures supporting industrial plants, such as factories, refineries, or the like}
- 2035/448 . . {Floating hydrocarbon production vessels, e.g. Floating Production Storage and Offloading vessels [FPSO]}
- 2035/4486 . . {Floating storage vessels, other than vessels for hydrocarbon production and storage, e.g. for liquid cargo}
- 2035/4493 . . {Floating structures supporting vegetation, such as trees, reeds, crops, plants, or the like, e.g. flexible structures}
- 35/50 . Vessels or floating structures for aircraft (aircraft carriers [B63G 11/00](#); flying-boat hulls, other flotation means for aircraft [B64](#))
- 35/52 . . Nets, slipways or the like, for recovering aircraft from the water
- 35/53 . . Floating runways
- 35/54 . Ferries (propulsion of chain ferries [B63H](#))
- 35/56 . Lightships (marking of navigational route [B63B 51/00](#))
- 35/58 . Rafts, i.e. free floating waterborne vessels, of shallow draft, with little or no freeboard, and having a platform or floor for supporting a user (lifeboats, life-rafts or the like [B63C 9/02](#))
- 35/607 . . having a platform or floor below the level of the buoyancy means, e.g. suspended basket type
- 35/613 . . with tubular shaped flotation members
- 35/62 . . formed from logs or the like
- 35/66 . Tugs (towing or pushing equipment [B63B 21/56](#))
- 35/665 . . {Floating propeller units, i.e. a motor and propeller unit mounted in a floating box (outboard propulsion units [B63H 20/00](#))}
- 35/68 . . for towing
- 35/70 . . for pushing
- 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	43/085	• . . . . {the stabilising effect being provided by the weight of a person placed on an outrigger seat swingable around a vertical axis}
39/03	• . by transferring liquids	43/10	• . by improving buoyancy {(amphibious cycles <a href="#">B60F 3/0038</a> )}
39/04	• to decrease vessel movements by using gyroscopes directly	43/12	• . . using inboard air containers {or inboard floating members}
39/06	• to decrease vessel movements by using foils acting on ambient water (constructional aspects of bilge keels <a href="#">B63B 3/44</a> {; foils mounted on the housing of outboard motors <a href="#">B63H 20/34</a> })	2043/123	• . . . . {using floaters mounted to the tip of a mast, e.g. inflatable}
39/061	• . {by using trimflaps, i.e. flaps mounted on the rear of a boat, e.g. speed boat}	2043/126	• . . . . {pneumatic, e.g. inflatable on demand}
39/062	• . {the foils being mounted on outriggers or the like, e.g. antidrift hydrofoils for sail boats (hydrofoils <a href="#">B63B 1/24</a> ; drop keels <a href="#">B63B 41/00</a> )}	43/14	• . . using outboard floating members
2039/063	• . {the foils comprising flexible portions}	2043/145	• . . . . {pneumatic, e.g. inflatable on demand}
2039/065	• . {the foils being pivotal about an axis substantially parallel to the longitudinal axis of the vessel}	43/16	• . . Temporary equipment for stopping leaks, e.g. collision mats
2039/066	• . {the lift generating devices using the Magnus effect}	43/18	• preventing collision {or grounding}; reducing collision damage {(reducing pollution by collision <a href="#">B63B 25/082</a> )}
2039/067	• . {effecting motion dampening by means of fixed or movable resistance bodies, e.g. by bilge keels}	2043/185	• . {using shock absorbing telescoping buffers}
2039/068	• . {the foils having a variable cross section, e.g. a variable camber}	43/20	• . Feelers
39/08	• to decrease vessel movements by using auxiliary jets or propellers (for steering or dynamic anchoring <a href="#">B63H 25/00</a> )	43/24	• Arrangements of watertight doors in bulkheads
39/10	• to decrease vessel movements by damping the waves, e.g. by pouring oil on water	43/26	• . of sliding type
2039/105	• . {by absorption of wave energy, e.g. by structured, wave energy absorbing hull surfaces}	43/28	• . . with mechanical drive
39/12	• for indicating draught or load	43/30	• . . with fluid drive
39/14	• for indicating inclination or duration of roll	43/32	• . of non-sliding type
<b>41/00</b>	<b>Drop keels, e.g. centre boards or side boards {; Collapsible keels, or the like, e.g. telescopically; Longitudinally split hinged keels (keels integral with hull <a href="#">B63B 3/38</a>; foils or keels on surf-boards <a href="#">B63B 32/50</a>; stabilising foils <a href="#">B63B 39/06</a>)}</b>	<b>45/00</b>	<b>Arrangements or adaptations of signalling or lighting devices (arrangement of signalling or lighting devices, the mounting or supporting thereof or circuits therefor, for vehicles in general <a href="#">B60Q</a>; life-buoys, -belts, -jackets, -suits or the like, characterised by signalling means <a href="#">B63C 9/20</a>; lighting devices or systems therefor <a href="#">F21L</a>, <a href="#">F21S</a>)</b>
2041/003	• {Collapsible keels, or the like, e.g. telescopically; Longitudinally split hinged keels}	2045/005	• {comprising particular electric circuits}
2041/006	• . {Telescopically collapsible keels}	45/02	• the devices being intended to illuminate the way ahead or other areas of environments
<b>43/00</b>	<b>Improving safety of vessels, e.g. damage control, not otherwise provided for (fire-fighting in ships <a href="#">A62C 3/10</a>)</b>	45/04	• the devices being intended to indicate the vessel or parts thereof
2043/003	• {Arrangements of emergency exits, e.g. for escape from engine rooms}	45/06	• the devices being intended to illuminate vessels' decks or interior
2043/006	• {Methods or installations specially adapted for detecting ingress of ambient water, e.g. leak detectors}	45/08	• the devices being acoustic
43/02	• reducing risk of capsizing or sinking (by means of watertight doors in bulkheads <a href="#">B63B 43/24</a> )	<b>49/00</b>	<b>Arrangements of nautical instruments or navigational aids (nautical measuring instruments <a href="#">G01C</a>; radio navigation, analogous arrangements using other waves <a href="#">G01S</a>)</b>
43/04	• . by improving stability	<b>51/00</b>	<b>Marking of navigation route</b>
2043/042	• . . {using outboard booms supporting ballast, other than solid ballast or persons, e.g. carrying water-filled bags}	51/02	• with anchored lightships; by use of lighthouses
43/045	• . . {by decreasing the free surface effect of water entered in enclosed decks}	51/04	• with free-floating flares
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}	<b>57/00</b>	<b>Tank {or cargo hold} cleaning specially adapted for vessels (tank cleaning in general <a href="#">B08B 9/08</a>)</b>
43/06	• . . using ballast tanks (conduits for emptying or ballasting <a href="#">B63B 13/00</a> )	2057/005	• {of ballast tanks, e.g. from deposits, biological organisms; Ship-borne installations therefor}
43/08	• . . by transfer of solid ballast	57/02	• by washing
		57/04	• by ventilating
		<b>59/00</b>	<b>Hull protection specially adapted for vessels; Cleaning devices specially adapted for vessels {(inhibiting corrosion of metals by anodic or cathodic protection <a href="#">C23F 13/00</a>)}</b>
		59/02	• Fenders integral with waterborne vessels or specially adapted therefor, {e.g. fenders forming part of the hull or incorporated in the hull}; Rubbing-strakes (fenders on coasts, in harbours or on other fixed marine structures <a href="#">E02B 3/26</a> )

2059/025	. . {pneumatic, e.g. inflatable}	<b>79/00</b>	<b>Monitoring properties or operating parameters of vessels in operation</b>
59/04	. Preventing hull fouling (anti-fouling paints <a href="#">C09D 5/16</a> )	79/10	. using sensors, e.g. pressure sensors, strain gauges or accelerometers
59/045	. . {by wrapping the submerged hull or part of the hull with an impermeable sheet (stopping temporarily leaks in hulls with impermeable sheets <a href="#">B63B 43/16</a> )}	79/15	. . for monitoring environmental variables, e.g. wave height or weather data
59/06	. Cleaning devices for hulls	79/20	. using models or simulation, e.g. statistical models or stochastic models
2059/065	. . {mounted on land-borne vehicles, e.g. travelling on the bottom of a dry-dock}	79/30	. for diagnosing, testing or predicting the integrity or performance of vessels
59/08	. . of underwater surfaces while afloat ( <a href="#">B63B 59/10</a> takes precedence)	79/40	. for controlling the operation of vessels, e.g. monitoring their speed, routing or maintenance schedules
2059/082	. . . {the devices being supported on arms or rods}	<b>81/00</b>	<b>Repairing or maintaining vessels</b>
2059/085	. . . {the devices being adapted for operation by divers}	<b>83/00</b>	<b>Rebuilding or retrofitting vessels, e.g. retrofitting ballast water treatment systems</b>
2059/087	. . . {the devices being adapted for being pulled across, or along the underwater surface to be cleaned, e.g. by ropes}	83/10	. for increasing cargo capacity
59/10	. . using trolleys or the like driven along the surface	83/20	. for conversion to a different use, e.g. for converting tankers into a FPSO-FLNG units
<b>69/00</b>	<b>Equipment for shipping not otherwise provided for</b>	83/30	. for improving energy efficiency, e.g. by improving hydrodynamics or by upgrading the power plant
<b>71/00</b>	<b>Designing vessels; Predicting their performance</b>	83/40	. for reducing risks of pollution or contamination; for improving safety
71/10	. using computer simulation, e.g. finite element method [FEM] or computational fluid dynamics [CFD]	<b>85/00</b>	<b>Dismantling or scrapping vessels</b>
71/20	. using towing tanks or model basins for designing	<b>Indexing schemes associated with subclasses <a href="#">B63B</a>, <a href="#">B63C</a>, <a href="#">B63G</a>, <a href="#">B63H</a> and <a href="#">B63J</a>, relating to aspects of particular or unusual use, materials, design, methods or means.</b>	
<b>73/00</b>	<b>Building or assembling vessels or marine structures, e.g. hulls or offshore platforms</b>	<b>2201/00</b>	<b>Signalling devices</b>
73/10	. Building or assembling vessels from prefabricated hull blocks, i.e. complete hull cross-sections	2201/02	. Audible
73/20	. Building or assembling prefabricated vessel modules or parts other than hull blocks, e.g. engine rooms, rudders, propellers, superstructures, berths, holds or tanks	2201/04	. Illuminating
73/30	. Moving or transporting modules or hull blocks to assembly sites, e.g. by rolling, lifting or floating	2201/06	. . by combustion of fluid
73/40	. characterised by joining methods	2201/08	. . Electric light
73/43	. . Welding, e.g. laser welding	2201/10	. Smoke producing
73/46	. . Gluing; Taping; Cold-bonding	2201/12	. Reflecting means
73/48	. . {Riveting}	2201/14	. Balloon
73/49	. . {by means of threaded members, e.g. screws, threaded bolts or nuts}	2201/16	. Radio
73/50	. characterised by forming methods, e.g. manufacturing of curved blocks	2201/18	. Sonar
73/60	. characterised by the use of specific tools or equipment; characterised by automation, e.g. use of robots	2201/20	. Antenna or mast
73/70	. characterised by using moulds; Moulds or plugs therefor	2201/22	. Spread-open chemicals or other products
73/72	. . characterised by plastic moulding, e.g. injection moulding, extrusion moulding or blow moulding	2201/24	. by means of bubbles
73/74	. . characterised by lamination of materials	2201/26	. signalling anomalies, e.g. rupture of connection
<b>75/00</b>	<b>Building or assembling floating offshore structures, e.g. semi-submersible platforms, SPAR platforms or wind turbine platforms</b>	<b>2203/00</b>	<b>Communication means</b>
<b>77/00</b>	<b>Transporting or installing offshore structures on site using buoyancy forces, e.g. using semi-submersible barges, ballasting the structure or transporting of oil-and-gas platforms</b>	2203/02	. telephone
77/10	. specially adapted for electric power plants, e.g. wind turbines or tidal turbine generators	<b>2205/00</b>	<b>Tethers</b>
		2205/02	. Tether payout means
		2205/04	. . comprising means for controlling payout
		2205/06	. . Reels for tethers
		2205/08	. with means for recovering submerged objects
		<b>2207/00</b>	<b>Buoyancy or ballast means</b>
		2207/02	. Variable ballast or buoyancy
		2207/04	. Pressure equalising or adjusting
		<b>2209/00</b>	<b>Energy supply or activating means</b>
		2209/02	. water activated switches
		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	2231/62	. . Lightweight concretes
2209/16	. nuclear energy	2231/64	. . Reinforced or armoured concretes
2209/18	. solar energy	2231/66	. . . Fibre reinforced concretes, e.g. synthetic fibre reinforced concretes
2209/20	. wind energy	2231/68	. . Prestressed concretes
<b>2211/00</b>	<b>Applications</b>	2231/70	. Glass
2211/02	. Oceanography	2231/72	. . Hollow glass microspheres
2211/04	. Diving	2231/74	. Bituminous materials or the like
2211/06	. Operation in ice-infested waters	2231/76	. Ice
<b>2213/00</b>	<b>Navigational aids and use thereof, not otherwise provided for in this class</b>	<b>2241/00</b>	<b>Design characteristics</b>
2213/02	. using satellite radio beacon positioning systems, e.g. the Global Positioning System GPS	2241/02	. Design characterised by particular shapes
<b>2221/00</b>	<b>Methods and means for joining members or elements</b>	2241/04	. . by particular cross sections
2221/02	. by welding	2241/06	. . . circular
2221/04	. by soldering	2241/08	. . . polygonal
2221/06	. by riveting	2241/10	. . by particular three dimensional shapes
2221/08	. by means of threaded members, e.g. screws, threaded bolts or nuts	2241/12	. . . annular or toroidal
2221/10	. using adhesives	2241/14	. . . spherical
2221/12	. by means of hook and loop fasteners	2241/16	. . . polyhedral
2221/14	. by means of zippers or the like	2241/20	. Designs or arrangements for particular purposes not otherwise provided for in this class
2221/16	. by means of ties, ribbons or the like	2241/22	. . for providing redundancy to equipment or functionality of a vessel, e.g. for steering
2221/18	. by sewing, stitching, stapling or the like methods	2241/24	. . for facilitating transport, e.g. hull shape with limited dimensions
2221/20	. Joining substantially rigid elements together by means that allow one or more degrees of freedom, e.g. hinges, articulations, pivots, universal joints, telescoping joints, elastic expansion joints, not otherwise provided for in this class	2241/26	. . . for transport on roads, e.g. hull shape with maximum dimensions for public roads
2221/22	. . by means that allow one or more degrees of angular freedom, e.g. hinges, articulations, pivots, universal joints, not otherwise provided for in this class	2241/28	. . . for airborne transport
2221/24	. . by means that allow one or more degrees of translational freedom, e.g. telescopic joints, not otherwise provided for in this class		
<b>2231/00</b>	<b>Material used for some parts or elements, or for particular purposes</b>		
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		