SECTION B — PERFORMING OPERATIONS; 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) [2]

Subclass index

HULLS	
Hydrodynamic or hydrostatic features	1/00
Structure or component parts; adjustable keels; protection	3/00, 41/00, 59/00
Particular types	5/00, 7/00
Subdivision; cleaning of tanks	11/00, 57/00
SUPERSTRUCTURES; HULL OR SUPERSTRUCTURE OPENINGS	
EMPTYING, BALLASTING; STABILITY; SAFETY	
MOORING, SHIFTING; HANDLING LIFEBOATS	21/00, 23/00
ACCOMMODATION FOR CARGO OR PERSONS	25/00, 27/00, 29/00
ARRANGEMENTS OR ADAPTATIONS OF SIGNALLING OR LIGHTING DEVICES OR OF	
NAUTICAL INSTRUMENTS	
DETAILS AND ACCESSORIES FOR SHIPS	17/00
VESSELS	
Designing or predicting their performance	71/00
Building or assembling	73/00
Monitoring properties or operating parameters	79/00
Repairing or maintaining	81/00
Rebuilding or retrofitting	83/00
Dismantling or scrapping	85/00
FLOATING OFFSHORE STRUCTURES	
Building or assembling	75/00
Transporting or installing on site using buoyancy forces	77/00
WATER SPORTS BOARDS; ACCESSORIES THEREFOR	32/00
VESSELS SPECIALLY ADAPTED FOR WATER SPORTS OR LEISURE; BODY-SUPPORTING	
DEVICES SPECIALLY ADAPTED FOR WATER SPORTS OR LEISURE	34/00
VESSELS OR SIMILAR FLOATING STRUCTURES SPECIALLY ADAPTED FOR SPECIFIC	
PURPOSES AND NOT OTHERWISE PROVIDED FOR	
BUOYS; MARKING NAVIGATION ROUTES	22/00, 51/00

1/00	Hydrodynamic or hydrostatic features of hulls or of hydrofoils (hulls peculiar to submarines B63B 3/13;
	keels B63B 3/38) [1, 2006.01]
1/02	 deriving lift mainly from water displacement
	(B63B 1/16 takes precedence) [1, 2006.01]
1/04	• • with single hull [1, 2006.01]
1/06	• • • Shape of fore part [1, 2006.01]
1/08	• • • Shape of aft part [1, 2006.01]
1/10	• • with multiple hulls [1, 2006.01]
1/12	 the hulls being interconnected
	rigidly [1, 2006.01]
1/14	 the hulls being interconnected
	resiliently [1, 2006.01]
1/16	 deriving additional lift from hydrodynamic
	forces [1, 2006.01]
1/18	• • of hydroplane type [1, 2006.01]
1/20	 having more than one planing surface
	(B63B 1/22 takes precedence) [1, 2006.01]

• • • with adjustable planing surfaces [1, 2006.01]

1/22

- • of hydrofoil type (hydrofoils for water sports boards B63B 32/60; hydrofoils for other water sports body supporting devices B63B 34/40) [1, 2006.01, 2020.01]
- 1/26 • having more than one hydrofoil (B63B 1/28 takes precedence) [1, 2006.01]
- 1/28 • with movable hydrofoils **[1, 2006.01]**
- 1/30 • retracting or folding **[1, 2006.01]**
- 1/32 Other means for varying the inherent hydrodynamic characteristics of hulls [1, 2006.01]
- 1/34 • by reducing surface friction [1, 2006.01]
- 1/36 • using mechanical means **[1, 2006.01]**
- 1/38 • using air bubbles or air layers **[1, 2006.01]**
- 1/40 • by diminishing wave resistance **[1, 2006.01]**
- 3/00 Hulls characterised by their structure or component parts (non-metallic hulls B63B 5/00; designing, building, maintaining or repairing methods B63B 71/00-B63B 83/00) [1, 2006.01]
- Hulls assembled from prefabricated subunits [1, 2006.01]

3/04	• • with permanently-connected sub-	5/20	• • • in combination with elements of other
2 /06	units [1, 2006.01]	E /22	materials [1, 2006.01]
3/06	 • the sub-units being substantially identical [1, 2006.01] 	5/22	 with reinforcing members external to shell [1, 2006.01]
3/08	 with detachably-connected sub-units [1, 2006.01] 	5/24	• made predominantly of plastics [1, 2006.01]
3/09	Hulls constructed of non-magnetic metal [1, 2006.01]	3,2:	made predominantly of plastics [1, 200001]
3/10	 Armoured hulls [1, 2006.01] 	7/00	Collapsible, foldable, inflatable or like vessels
3/12	• Frameless hulls [1, 2006.01]		(collapsible, foldable or inflatable water sports boards
3/13	Hulls built to withstand hydrostatic pressure when		B63B 32/53; collapsible, foldable or inflatable canoes,
	fully submerged, e.g. submarine hulls [1, 2006.01]		kayaks or the like B63B 34/23; foldable pontoons B63B 35/36) [1, 2006.01, 2020.01]
3/14	 Hull parts (hull armour B63B 3/10) [1, 2006.01] 	7/02	 comprising only rigid parts [1, 2006.01, 2020.01]
3/16	 Shells (ports or closures therefor 	7/04	 sectionalised (sectionalised water sports boards
	B63B 19/00) [1, 2006.01]	7,0.	B63B 32/53; sectionalised canoes, kayaks or the
3/18	• • • characterised by being formed predominantly		like B63B 34/23) [1, 2006.01, 2020.01]
	of parts that may be developed into plane	7/06	 having parts of non-rigid
2/20	surfaces [1, 2006.01]		material [1, 2006.01, 2020.01]
3/20 3/22	• of double type [1, 2006.01]• with corrugations [1, 2006.01]	7/08	Inflatable (inflatable water sports boards
3/24	 • • Means for diminishing external ridges or 		B63B 32/51; canoes, kayaks or the like being
3/24	protrusions [1, 2006.01]		inflatable or having inflatable parts B63B 34/22) [1, 2006.01, 2020.01]
3/26	• • Frames [1, 2006.01]		2002 0 1121) [19 2000019 202001]
3/28	• • • of transverse type; Stringers [1, 2006.01]	11/00	Interior subdivision of hulls (bulkhead space
3/30	• • • • Bilge knees; Beam knees [1, 2006.01]		construction B63B 3/56) [1, 2006.01]
3/32	 • • Web frames; Web beams [1, 2006.01] 	11/02	Arrangement of bulkheads, e.g. defining cargo
3/34	• • • of longitudinal type; Bulkhead	11/04	spaces [1, 2006.01]
	connections [1, 2006.01]	11/04	 Constructional features of bunkers or ballast tanks, e.g. with elastic walls [1, 2006.01]
3/36	• • • Combined frame systems [1, 2006.01]	11/06	• Propeller-shaft tunnels [1, 2006.01]
3/38	• • Keels (movable keels B63B 41/00) [1, 2006.01]	11,00	Tropener shart tunners (1) 2000101
3/40	• • Stern posts; Stern frames [1, 2006.01]	13/00	Conduits for emptying or ballasting; Self-bailing
3/42	• • Shaft brackets [1, 2006.01]	12/02	equipment; Scuppers [1, 2006.01]
3/44	 Bilge keels (stabilising aspect B63B 39/06) [1, 2006.01] 	13/02	 Ports for passing water through vessels' sides [1, 2006.01]
3/46	• • Stems [1, 2006.01]		Sides [1, 2000.01]
3/48	 Decks (planking B63B 5/06) [1, 2006.01] 	15/00	Superstructures; Arrangements or adaptations of
3/50	• • • of vaulted type [1, 2006.01]		masts [1, 2006.01]
3/52	• • • Pillars; Deck girders [1, 2006.01]	15/02	Staying of masts or of other
3/54	• • • Hatch openings [1, 2006.01]		superstructures [1, 2006.01]
3/56	 Bulkheads; Bulkhead reinforcements 	17/00	Vessels parts, details, or accessories, not otherwise
	(arrangements of watertight doors		provided for [1, 2006.01]
D./E0	B63B 43/24) [1, 2006.01]	17/02	• Awnings [1, 2006.01]
3/58	• • • with flat plating [1, 2006.01]	17/04	• Stanchions; Guard-rails [1, 2006.01]
3/60	• • • with curved or corrugated plating [1, 2006.01]	17/06	 Refuse discharge, e.g. for ash [1, 2006.01]
3/62 3/64	• • Double bottoms; Tank tops [1, 2006.01]	10/00	Arrangements or adoptations of nexts deeps
3/66	• • Keelsons [1, 2006.01]• Gratings [1, 2006.01]	19/00	Arrangements or adaptations of ports, doors, windows, port-holes, or other openings or covers
3/68	• Panellings; Linings, e.g. for insulating		(scuppers B63B 13/00; arrangements of watertight doors
3/00	purposes [1, 2006.01]		in bulkheads B63B 43/24) [1, 2006.01]
3/70	 Reinforcements for carrying localised loads, e.g. 	19/02	 Windows specially adapted for ships or other
	propulsion plant, guns [1, 2006.01]		waterborne vessels, e.g. clear-view screens
		10/04	or portholes [1, 2006.01]
5/00	Hulls characterised by their construction of non-	19/04	 Air-catching equipment related to windows or port- holes [1, 2006.01]
5/02	metallic material [1, 2006.01]made predominantly of wood [1, 2006.01]	19/06	 readily detachable [1, 2006.01]
5/04	 Carcasses [1, 2006.01] 	19/08	Ports or like openings in vessels' sides (ports for
5/06	• • Decks; Shells [1, 2006.01]	157 00	passing water through vessels' sides
5/08	• • • with single-layer planking [1, 2006.01]		B63B 13/02) [1, 2006.01]
5/10	• • • with multiple-layer planking [1, 2006.01]	19/10	• • Coal ports [1, 2006.01]
5/12	made predominantly of wood with metal	19/12	Hatches; Hatchways (hatch coamings
	reinforcement, i.e. composite	10/44	B63B 3/54) [1, 2006.01]
F /4 ·	construction [1, 2006.01]	19/14 19/16	• Hatch covers [1, 2006.01]
5/14	• made predominantly of concrete, e.g.	19/16 19/18	• • with detachable boards [1, 2006.01]• • slidable [1, 2006.01]
5/16	reinforced [1, 2006.01] • monolithic [1, 2006.01]	19/10	• • • foldable [3, 2006.01]
5/18	built-up from elements [1, 2006.01]	19/197	• • • actuated by fluid pressure [3, 2006.01]
2, 10		19/203	• • • actuated by cables or the like [3, 2006.01]
			· · · · · · · · · · · · · · · · · · ·

19/21	• • • of roll-up type [3, 2006.01]	22/06	• • with means to cause the buoy to surface in
19/22	• • Hatch beams [1, 2006.01]		response to a transmitted signal [4, 2006.01]
19/24	 Hatch fastenings, e.g. cleats [1, 2006.01] 	22/08	 having means to release or urge to the surface a
19/26	• • Gaskets; Draining means [1, 2006.01]		buoy on submergence thereof, e.g. to mark
19/28	• • Other safety devices [1, 2006.01]		location of a sunken object [4, 2006.01]
	, and a supplied to the suppli	22/10	 Water soluble or water weakened means, i.e.
21/00	Tying-up; Shifting, towing, or pushing equipment;		buoy released by buoy-to-object securing
	Anchoring (dynamic anchoring B63H 25/00; equipment		means being destroyed on contact with
	for shipping on coasts, in harbours or on other fixed	22/12	water [4, 2006.01]
	marine structures, e.g. for landing purposes,	22/12	• • the surfacing of the buoy being assisted by a gas released or generated on submergence of
21 /02	E02B) [1, 4, 2006.01]		the buoy [4, 2006.01]
21/02	Magnetic mooring equipment [1, 2006.01]	22/14	Buoy-to-object securing means responsive to
21/04	 Fastening or guiding equipment for chains, ropes, hawsers, or the like [1, 2006.01] 	22/14	hydrostatic pressure [4, 2006.01]
21/06	• Bollards [1, 2006.01]	22/16	specially adapted for marking a navigational
21/08	• Clamping devices [1, 2006.01]	22/10	route [4, 2006.01]
	* -	22/18	 having means to control attitude or position, e.g.
21/10	• Fairleads [1, 2006.01]		reaction surfaces or tether [4, 2006.01]
21/12	• Rat guards [1, 2006.01]	22/20	• • Ballast means [4, 2006.01]
21/14	 Hawse-holes; Hawse-pipes; Hawse-hole closures [1, 2006.01] 	22/22	Inflatable buoys with gas generating means
21/16	• using winches [1, 2006.01]		(B63B 22/12 takes precedence) [4, 2006.01]
21/18	• Stoppers for anchor chains [1, 2006.01]	22/24	• container type, i.e. having provision for the storage of
			material [4, 2006.01]
21/20	 Adaptations of chains, ropes, hawsers, or the like, or of parts thereof [1, 2006.01] 	22/26	 having means to selectively release contents, e.g.
21/22	 Handling or lashing anchors [1, 2006.01] 		swivel couplings [4, 2006.01]
21/24	• Anchors [1, 2006.01]	22/28	 submerged when not in use [4, 2006.01]
21/24	• securing to bed [1, 2006.01]	22 / 22	T
21/27	• • by suction [2, 2006.01]	23/00	Equipment for handling lifeboats or the
21/27	• • • driven-in by explosive charge [1, 2006.01]	23/02	like [1, 2006.01]Davits, i.e. devices having arms for lowering boats by
21/29	• • by weight, e.g. flukeless weight	23/02	cables or the like [1, 2006.01]
21/23	anchors [2, 2006.01]	23/04	 with arms pivoting on substantially-horizontal
21/30	• • rigid when in use [1, 3, 2006.01]	23701	axes, e.g. gravity type [1, 2006.01]
21/32	• • with one fluke [1, 2006.01]	23/06	• • • with actual pivots [1, 2006.01]
21/34	• • • with two or more flukes [1, 2006.01]	23/08	• • • • the arms being articulated [1, 2006.01]
21/36	• • • • foldable [1, 2006.01]	23/10	• • • • with positive drive of the arms [1, 2006.01]
21/38	• • pivoting when in use [1, 3, 2006.01]	23/12	• • • with simulated pivots [1, 2006.01]
21/40	• • with one fluke [1, 2006.01]	23/14	• • • • using linkages [1, 2006.01]
21/42	• • • of ploughshare type [1, 2006.01]	23/16	• • • • using guide tracks [1, 2006.01]
21/44	• • • with two or more flukes [1, 2006.01]	23/18	with arms pivoting on substantially-vertical
21/46	with variable, e.g. sliding, connection to	20, 10	axes [1, 2006.01]
21/40	chain [1, 2, 2006.01]	23/20	• • • Davits with single arms [1, 2006.01]
21/48	• • Sea-anchors; Drogues [1, 2006.01]	23/22	• • • • Slings or the like therefor [1, 2006.01]
21/50	Anchoring arrangements for special vessels, e.g. for	23/24	• • • Slewing equipment therefor [1, 2006.01]
21750	floating drilling platforms or dredgers [1, 2006.01]	23/26	with rectilinear translation of boat before
21/54	• Boat-hooks or the like [1, 2006.01]		lowering [1, 2006.01]
21/56	• Towing or pushing equipment (tugs B63B 35/66;	23/28	 Devices for projecting or releasing boats for free
	towing arrangements for water sports use		fall [1, 2006.01]
	B63B 34/60) [1, 2006.01]	23/30	 Devices for guiding boats to water
21/58	 Adaptations of hooks for towing; Towing-hook 		surface [1, 2006.01]
	mountings [1, 2006.01]	23/32	 Rigid guides, e.g. having arms pivoted near
21/60	• • • Quick releases [1, 2006.01]		waterline [1, 2006.01]
21/62	 characterised by moving of more than one 	23/34	 Guiding means for lowering by cables, e.g. for
	vessel [1, 2006.01]		listing ships [1, 2006.01]
21/64	 Equipment for towing or pushing vessels by 	23/36	• • • Skid fenders [1, 2006.01]
	vehicles or beings moving forward on ground-	23/38	• Transport of boats to davits or the like [1, 2006.01]
	based paths along water-way (boat-hooks or the	23/40	 Use of lowering or hoisting gear [1, 2006.01]
21/00	like B63B 21/54) [2, 2006.01]	23/42	 with braking equipment [1, 2006.01]
21/66	 Equipment specially adapted for towing underwater objects or vessels, e.g. fairings for 	23/44	• • • on the ship [1, 2006.01]
	tow-cables [3, 2006.01]	23/46	• • • in the boat [1, 2006.01]
		23/48	 using winches for boat handling [1, 2006.01]
22/00	Buoys (means for indicating the location of underwater	23/50	• • • with tensioning gear [1, 2006.01]
	objects B63C 7/26; life-buoys, e.g. rings,	23/52	• • with control of winches from boat [1, 2006.01]
	B63C 9/08) [4, 2006.01]	23/54	 with trimming equipment [1, 2006.01]
22/02	 specially adapted for mooring a vessel [4, 2006.01] 	23/56	• • • controlled from boat [1, 2006.01]
22/04	 Anchoring arrangements [4, 2006.01] 	23/58	• • with tackle-engaging or release gear [1, 2006.01]

23/60	• • Additional connections between boat and	29/06	• • • Fastening to floors [1, 2006.01]
00.460	davit [1, 2006.01]	29/08	• • Storm guards on tables, e.g.
23/62	• Fastening or storing of boats on deck [1, 2006.01]	20/40	fiddles [1, 2006.01]
23/64	• • Lashings; Covers [1, 2006.01]	29/10	• • Berths; Mounting ladders therefor [1, 2006.01]
23/66	• • Blocks; Chocks [1, 2006.01]	29/12	• • • Self-levelling mountings [1, 2006.01]
23/68	• • • for stacking boats [1, 2006.01]	29/14	• • Closet or like flushing arrangements; Washing or
23/70	Condition-responsive handling equipment, e.g. Automotio release of heat from levering tools a unon	20/16	bathing facilities peculiar to ships [1, 2006.01]
	automatic release of boat from lowering tackle upon contact with water [4, 2006.01]	29/16 29/18	• Soil-water discharges [1, 2006.01]
	contact with water [4, 2000.01]	29/10	 Arrangements or adaptations of swimming pools [1, 2006.01]
25/00	Load-accommodating arrangements, e.g. stowing or	29/20	 Arrangements or adaptations of ladders (mounting
	trimming; Vessels characterised thereby (fishing		ladders for berths B63B 29/10) [1, 2006.01]
	vessel fish holds B63B 35/24; trimming otherwise than	29/22	• Galleys [2, 2006.01]
	by cargo division. e.g. by use of ballast, B63B 43/06, B63B 43/08) [1, 2006.01]	22/22	
25/02	• for bulk goods [1, 2006.01]	32/00	Water sports boards; Accessories therefor [2020.01]
25/04	• • solid [1, 2006.01]		Note(s) [2020.01]
25/06	• • • for cereals [1, 2006.01]		This group <u>covers</u> :
25/08	• • fluid [1, 2006.01]		floating structures having a substantially
25/10	• • • open to ambient air [1, 2006.01]		thin body with respect to the width, usually
25/12	• • • closed [1, 2006.01]		meant to carry one user, which are specially
25/14	• • • • pressurised [1, 2006.01]		adapted for water sports or leisure, e.g.
25/16	• • • heat-insulated [1, 2006.01]		surfboards, windsurfing boards, wakeboards, stand-up paddle [SUP] boards
25/18	 Detachable decks [1, 2006.01] 		or water skis;
25/20	• • for motor vehicles or the like [1, 2006.01]		 accessories for such structures.
25/22	 for palletised articles [1, 2006.01] 	32/10	 Motor-propelled water sports boards (power-driven
25/24	Means for preventing unwanted cargo movement,		personal watercraft B63B 34/10) [2020.01]
25/26	e.g. dunnage [1, 2006.01]	32/20	Boards specially adapted for use in a prone position,
25/26 25/28	for frozen goods [1, 2006.01]for deck loads [1, 2006.01]		e.g. wild-water sledges (towed water sledges B63B 34/54) [2020.01]
23/20	• 101 deck loads [1, 2000.01]	32/22	Bodyboards for surfing; Accessories specially
27/00	Arrangement of ship-based loading or unloading	<i>52, 22</i>	adapted therefor [2020.01]
	equipment for cargo or passengers (self-discharging	32/30	• Water skis fastened to the user's feet; Accessories
	barges or lighters B63B 35/30; floating cranes		specially adapted therefor [2020.01]
	B66C 23/52) [1, 3, 2006.01]	32/40	Twintip boards; Wakeboards; Surfboards;
	Note(s) [3]		Windsurfing boards; Paddle boards, e.g. SUP boards; Accessories specially adapted therefor [2020.01]
	Groups B63B 27/30-B63B 27/36 take precedence over	32/50	Boards characterised by their constructional
	groups B63B 27/04-B63B 27/28.	52750	features [2020.01]
27/04	• of derricks [1, 3, 2006.01]	32/51	 Inflatable boards, e.g. drop-stitch inflatable
27/08	• of winches [1, 3, 2006.01]		boards [2020.01]
27/10	• of cranes [1, 3, 2006.01]	32/53	Sectionalised boards, e.g. modular, dismountable
27/12	• • of gantry type [1, 3, 2006.01]	20.455	or foldable boards [2020.01]
27/14	 of ramps, gangways or outboard ladders [1, 3, 2006.01] 	32/55	Multihull boards, e.g. of catamaran type [2020.01]
27/16	• of lifts or hoists [1, 3, 2006.01]	32/56	 Boards convertible into vessels or other types of water sports boards, e.g. into sailboats, canoes or
27/18	of cableways, e.g. with breeches-		water-cycles [2020.01]
	buoys [1, 3, 2006.01]	32/57	Boards characterised by the material, e.g. laminated
27/22	 of conveyors, e.g. of endless-belt or screw- 		materials [2020.01]
	type [1, 3, 6, 2006.01]	32/59	 Boards characterised by their manufacturing process,
27/24	• of pipe-lines [1, 3, 2006.01]		e.g. moulded or 3D printed [2020.01]
27/25	• • for fluidised bulk material [3, 2006.01]	32/60	Board appendages, e.g. fins, hydrofoils or centre Accepted 12020 041
27/26	• of devices with throwing action [1, 3, 2006.01]	22/62	boards [2020.01]
27/28	• of chutes [1, 3, 2006.01]	32/62	 characterised by the material, e.g. laminated materials; characterised by their manufacturing
27/30	 for transfer at sea between ships or between ships and off-shore structures [3, 2006.01] 		process [2020.01]
27/32	• • using cableways [3, 2006.01]	32/64	 Adjustable, e.g. by adding sections, by removing
27/34	• • using pipe-lines [3, 2006.01]		sections or by changing orientation or
27/36	• for floating cargo [3, 2006.01]	DD / = =	profile [2020.01]
	-	32/66	Arrangements for fixation to the board, e.g. fin hoves or foil boxes [2020 01].
29/00	Accommodation for crew or passengers not	32/68	 boxes or foil boxes [2020.01] Mast foot attachments, e.g. mast foot rails [2020.01]
29/02	otherwise provided for [1, 2006.01]Cabins or other living spaces; Construction or	32/00	Accessories not specially adapted for a particular
2J/ UZ	arrangement thereof [1, 2006.01]	3=,,0	type of board, e.g. paddings or buoyancy
29/04	Furniture specially adapted for		elements [2020.01]
	vessels [1, 2006.01]		

32/73	• • for tethering users or objects to the board, e.g.	35/08	• Ice-breakers [1, 5, 2006.01]
32/77	leashes [2020.01] • Arrangements for fixation of accessories to the board,	35/10	 having forced pitching or rolling equipment [1, 5, 2006.01]
	e.g. inserts or rails [2020.01]	35/12	 having ice-cutters [1, 5, 2006.01]
32/80	 Arrangements specially adapted for stowing or 	35/14	• Fishing vessels [1, 5, 2006.01]
	transporting water sports boards [2020.01]	35/16	• • Trawlers [1, 5, 2006.01]
32/83	 for stowing, e.g. racks or straps [2020.01] 	35/18	• • • adapted to dragging nets aboard [1, 5, 2006.01]
32/87	• • for carrying, e.g. board bags [2020.01]	35/20	• • • adapted to hoisting nets aboard [1, 5, 2006.01]
24/00	** 1 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	35/22	Whale catchers; Whale factory
34/00	Vessels specially adapted for water sports or leisure;	00, ==	vessels [1, 5, 2006.01]
	Body-supporting devices specially adapted for water sports or leisure (water sports boards B63B 32/00;	35/24	• • Fish holds [1, 5, 2006.01]
	swimming frameworks A63B 35/00; propulsion	35/26	• • • for live fish [1, 5, 2006.01]
	arrangements actuated by muscle power	35/28	 Barges or lighters [1, 5, 2006.01]
	B63H 16/00) [2020.01]	35/30	• • self-discharging [1, 5, 2006.01]
	NI. (-) [2020 04]	35/32	 for collecting pollution from open
	Note(s) [2020.01]		water [1, 5, 2006.01]
	This group <u>covers</u> floating structures supporting the		N-4-(-) [F]
	user's body and moving on the water surface, which are		Note(s) [5]
	specially adapted for water sports or leisure.		If the apparatus for collecting pollution from open water
34/10	Power-driven personal watercraft, e.g. water scooters		is of interest apart from ship construction aspects, it is
	(water jet propulsion B63H 11/00; jet steering B63H 25/46); Accessories therefor [2020.01]	0= 40 4	also classified in group E02B 15/00.
24/15		35/34	• Pontoons [1, 5, 2006.01]
34/15	• for hydroflight sports [2020.01]	35/36	• • foldable [1, 5, 2006.01]
34/20	• Canoes, kayaks or the like [2020.01]	35/38	• • Rigidly-interconnected pontoons [1, 5, 2006.01]
34/21	• characterised by constructional features [2020.01]	35/40	• for transporting marine vessels [1, 5, 2006.01]
34/22	• • Inflatable; having inflatable parts [2020.01]	35/42	• • with adjustable draught [1, 5, 2006.01]
34/23	 • • Sectionalised, e.g. modular, collapsible or foldable [2020.01] 	35/44	Floating buildings, stores, drilling platforms, or
34/26	Accessories for canoes, kayaks or the like (effecting)		workshops, e.g. carrying water-oil separating devices [1, 5, 2006.01]
34/20	propulsion by muscle power B63H 16/00; outboard	35/50	
	propulsion units B63H 20/00) [2020.01]	35/30	• Vessels or floating structures for aircraft (aircraft carriers B63G 11/00) [1, 5, 2006.01]
34/30	 Rowing boats specially adapted for racing; 	35/52	 Nets, slipways or the like, for recovering aircraft
	Accessories therefor (effecting propulsion by rowing	33/32	from the water [1, 5, 2006.01]
	B63H 16/00) [2020.01]	35/53	• • Floating runways [3, 5, 2006.01]
34/40	 Body-supporting structures dynamically supported by 	35/54	• Ferries [1, 5, 2006.01]
	foils under water [2020.01]	35/56	Lightships (marking of navigational route with
34/45	• • Accessories therefor [2020.01]		anchored lightships B63B 51/02) [1, 5, 2006.01]
34/50	Body-supporting buoyant devices, e.g. bathing boats	35/58	• Rafts, i.e. free floating waterborne vessels, of shallow
	or water cycles (swimming aids A63B 31/00) [2020.01]		draft, with little or no freeboard, and having a
34/52	• • Inflatable or partly inflatable [2020.01]		platform or floor for supporting a user (life-rafts or
34/54	specially adapted for being towed, e.g. banana	25 /607	the like B63C 9/02) [1, 4, 5, 2006.01]
34/34	boats, water sledges or towed buoys (arrangements	35/607	 having a platform or floor below the level of the buoyancy means, e.g. suspended basket
	for towing B63B 34/60) [2020.01]		type [4, 5, 2006.01]
34/56	 for use in a standing position, e.g. water shoes, 	35/613	• • with tubular shaped flotation
	water walking devices or buoyant skis [2020.01]	557 015	members [4, 5, 2006.01]
34/565	 Accessories, e.g. sticks for water 	35/62	• • formed from logs or the like [4, 5, 2006.01]
	walking [2020.01]	35/66	• Tugs [1, 5, 2006.01]
34/60	 Arrangements for towing, e.g. for use with water-skis 	35/68	• • for towing [1, 5, 2006.01]
	or wakeboards [2020.01]	35/70	• • for pushing [1, 5, 2006.01]
34/63	Holding means for the user, e.g. handle bars or		
	harnesses [2020.01]	39/00	Equipment to decrease pitch, roll, or like unwanted
34/67	• Connection means on the towing watercraft, e.g.		vessel movements; Apparatus for indicating vessel
24/70	pylons, side poles or winches [2020.01]	20.402	attitude [1, 2006.01]
34/70	 Arrangements on vessels specially adapted for generating waves for surfing, wakeboarding or the 	39/02	• to decrease vessel movements by displacement of
	like, e.g. ballast tanks [2020.01]	20/02	masses [1, 2, 2006.01]
34/75	Arrangements of wake plates [2020.01]	39/03	• by transferring liquids [2, 2006.01]
54//5	Arrangements of wake plates [2020.01]	39/04	 to decrease vessel movements by using gyroscopes directly [1, 2006.01]
35/00	Vessels or similar floating structures specially	39/06	 to decrease vessel movements by using foils acting
	adapted for specific purposes and not otherwise	33/00	on ambient water (constructional aspects of bilge
	provided for [1, 5, 2006.01, 2020.01]		keels B63B 3/44) [1, 2006.01]
35/03	• Pipe-laying vessels [5, 2006.01]	39/08	 to decrease vessel movements by using auxiliary jets
35/04	• Cable-laying vessels [1, 5, 2006.01]		or propellers (using auxiliary jets or propellers for
35/06	• • for moving cable-ends from ship to		steering or dynamic anchoring
	shore [1, 5, 2006.01]		B63H 25/00) [1, 2006.01]

39/10	• to decrease vessel movements by damping the waves, e.g. by pouring oil on water [1, 2, 2006.01]	59/10	 using trolleys or the like driven along the surface [3, 2006.01]
39/12	• for indicating draught or load [1, 2006.01]	69/00	Equipment for shipping not otherwise provided
39/14	 for indicating inclination or duration of roll [1, 2006.01] 	03/00	for [2013.01]
41/00	Drop keels, e.g. centre boards or side boards [1, 2006.01]	71/00	Designing vessels; Predicting their performance [2020.01]
43/00	Improving safety of vessels, e.g. damage control, not otherwise provided for [1, 2006.01]	71/10	 using computer simulation, e.g. finite element method [FEM] or computational fluid dynamics [CFD] [2020.01]
43/02	reducing risk of capsizing or sinking (by means of	71/20	 using towing tanks or model basins for
45/02	watertight doors in bulkheads B63B 43/24) [1, 2006.01]		designing [2020.01]
43/04	• • by improving stability [1, 2006.01]	73/00	Building or assembling vessels or marine structures,
43/06	• • • using ballast tanks [1, 2006.01]	73/10	e.g. hulls or offshore platforms [2020.01]• Building or assembling vessels from prefabricated
43/08	• • • by transfer of solid ballast [1, 2006.01]	73/10	hull blocks, i.e. complete hull cross-
43/10	• • by improving buoyancy [1, 2006.01]		sections [2020.01]
43/12	• • • using inboard air containers [1, 2006.01]	73/20	• Building or assembling prefabricated vessel modules
43/14	• • • using outboard floating members [1, 2006.01]		or parts other than hull blocks, e.g. engine rooms,
43/16	• • Temporary equipment for stopping leaks, e.g. collision mats [1, 2006.01]	E2 /20	rudders, propellers, superstructures, berths, holds or tanks [2020.01]
43/18	 preventing collision; reducing collision damage [1, 2006.01] 	73/30	Moving or transporting modules or hull blocks to accomply sites, e.g. by rolling lifting or
43/20	• Feelers [1, 2006.01]		assembly sites, e.g. by rolling, lifting or floating [2020.01]
43/24	Arrangements of watertight doors in	73/40	 characterised by joining methods [2020.01]
15721	bulkheads [1, 2006.01]	73/43	 • Welding, e.g. laser welding [2020.01]
43/26	• • of sliding type [1, 2006.01]	73/46	Gluing; Taping; Cold-bonding [2020.01]
43/28	• • • with mechanical drive [1, 2006.01]	73/50	 characterised by forming methods, e.g.
43/30	• • • with fluid drive [1, 2006.01]		manufacturing of curved blocks [2020.01]
43/32	• • of non-sliding type [1, 2006.01]	73/60	• characterised by the use of specific tools or equipment; characterised by automation, e.g. use of
45/00	Arrangements or adaptations of signalling or lighting devices (life-buoys, life-belts, life-jackets, life-suits or	7 2./ 7 0	robots [2020.01]
	the like, characterised by signalling means B63C 9/20) [1, 4, 2006.01]	73/70 73/72	 characterised by using moulds; Moulds or plugs therefor [2020.01] characterised by plastic moulding, e.g. injection
45/02	 the devices being intended to illuminate the way ahead or other areas of environments [1, 2006.01] 	73/72	moulding, extrusion moulding or blow moulding [2020.01]
45/04	 the devices being intended to indicate the vessel or parts thereof [1, 2006.01] 	73/74	• • characterised by lamination of materials [2020.01]
45/06	 the devices being intended to illuminate vessels' decks or interior [1, 2006.01] 	75/00	Building or assembling floating offshore structures, e.g. semi-submersible platforms, SPAR platforms or
45/08	• the devices being acoustic [1, 2006.01]		wind turbine platforms [2020.01]
49/00	Arrangements of nautical instruments or navigational aids [1, 2006.01]	77/00	Transporting or installing offshore structures on site using buoyancy forces, e.g. using semi-submersible
51/00	Marking of navigational routes otherwise than with buoys [1, 4, 2006.01]	77/10	 barges, ballasting the structure or transporting of oil-and-gas platforms [2020.01] specially adapted for electric power plants, e.g. wind
51/02	• with anchored lightships; by use of lighthouses [1, 4, 2006.01]	77710	turbines or tidal turbine generators [2020.01]
51/04	• with free-floating flares [1, 2006.01]	79/00	Monitoring properties or operating parameters of vessels in operation [2020.01]
57/00	Tank cleaning specially adapted for vessels [1, 2006.01]	79/10	 using sensors, e.g. pressure sensors, strain gauges or accelerometers [2020.01]
57/02	 by washing [1, 2006.01] 	79/15	• • for monitoring environmental variables, e.g. wave
57/04	• by ventilating [1, 2006.01]	70 / 20	height or weather data [2020.01]
59/00	Hull protection specially adapted for vessels; Cleaning devices specially adapted for	79/20	 using models or simulation, e.g. statistical models or stochastic models [2020.01]
	vessels [1, 2006.01]	79/30	 for diagnosing, testing or predicting the integrity or performance of vessels [2020.01]
59/02	Fenders integral with waterborne vessels or specially	79/40	 for controlling the operation of vessels, e.g.
E0.46.	adapted therefor; Rubbing-strakes (skid fenders for lifeboats B63B 23/36) [1, 2006.01]		monitoring their speed, routing or maintenance schedules [2020.01]
59/04	• Preventing hull fouling [3, 2006.01]	81/00	Repairing or maintaining vessels [2020.01]
59/06	• Cleaning devices for hulls [3, 2006.01]	01/00	repairing or maintaining vessers [2020.01]
59/08	• • of underwater surfaces while afloat (B63B 59/10 takes precedence) [3, 2006.01]		

83/00 83/10	Rebuilding or retrofitting vessels, e.g. retrofitting ballast water treatment systems [2020.01] • for increasing cargo capacity [2020.01]	83/30	 for improving energy efficiency, e.g. by improving hydrodynamics or by upgrading the power plant [2020.01]
83/20	 for conversion to a different use, e.g. for converting tankers into a FPSO-FLNG units [2020.01] 	83/40	 for reducing risks of pollution or contamination; for improving safety [2020.01]
		85/00	Dismantling or scrapping vessels [2020.01]
B63C	LAUNCHING, HAULING-OUT, OR DRY-DOCKING DWELLING OR WORKING UNDER WATER; MEAN OBJECTS (floating nets, floating slipways, or the like for recommendation).	NS FOR SA	LVAGING OR SEARCHING FOR UNDERWATER
Subclass	<u>index</u>		
Dry-d Transp Slipw SALVAG	G, LAUNCHING ocking; storing on land; launching or hauling-out porting overland ay and dry-dock equipment E, SEARCHING UNDER WATER; LIFE-SAVING IG UNDER WATER		
1/00	Dry-docking of vessels or flying-boats (storing of vessels on land otherwise than by dry-docking	7/10	 using inflatable floats external to vessels or objects [1, 2006.01]
	B63C 15/00; mooring of vessels B63B 21/00; hydraulic-engineering aspects E02B) [1, 2006.01]	7/12	 by bringing air or floating bodies or material into vessels or objects [1, 2006.01]
1/02	 Floating dry-docks (ship transporters with adjustable draught B63B 35/42) [1, 2006.01] 	7/14	 using freezing for closing holes or for strengthening the vessel or the like [1, 2006.01]
1/04	• • self-docking [1, 2006.01]	7/16	 Apparatus engaging vessels or objects [1, 2006.01]
1/06	 Arrangements of pumping or filling equipment for 	7/18	• • using nets [1, 2006.01]
	raising or lowering docks [1, 2006.01]	7/20	• • using grabs [1, 2006.01]
1/08	• Dry docks (locks E02C 1/00) [1, 2, 2006.01]	7/22	 using electromagnets or suction
1/10	• Centring devices [1, 2006.01]		devices [1, 2006.01]
1/12	 Docks adapted for special vessels, e.g. submarines [1, 2006.01] 	7/24	 Apparatus for passing chains or the like under vessels or objects [1, 2006.01]
3/00	Launching or hauling-out, e.g. by landborne slipways; Slipways (ship-borne guides for handling lifeboats or the like B63B 23/30; cranes, winches, or the like B66; ship-lifting for adapting to different water	7/26	 Means for indicating the location of underwater objects, e.g. sunken vessels (means for searching for underwater objects B63C 11/48; buoys in general B63B 22/00) [1, 2006.01]
	levels E02C) [1, 2006.01]	7/28	 Refloating stranded vessels [1, 2006.01]
3/02	• by longitudinal movement of vessel [1, 2006.01]	7/30	• Floatable safes (safes in general E05G) [1, 2006.01]
3/04	• by sideways movement of vessel [1, 2006.01]	9/00	Life-saving in water (life-saving in general A62B;
3/06	• by vertical movement of vessel, e.g. by crane [1, 2006.01]	3,00	arrangement or adaptation of signalling or lighting devices for ships, other waterborne vessels or for
3/08	• Tracks on slipways [1, 2006.01]		equipment for shipping B63B 45/00; rescue equipment
3/10	• using releasing devices [1, 2006.01]		specially adapted for submarine personnel
3/12	 using cradles (vehicles in general for transporting 		B63G 8/40) [1, 2006.01]
3/14	boats or the like B60P) [1, 2006.01] • using braking means [1, 2006.01]	9/01	 Air-sea rescue devices, i.e. equipment carried by, and capable of being dropped from, an aircraft (inflatable vessels B63B 7/00; inflatable buoys
5/00	Equipment usable both on slipways and in dry docks [1, 2006.01]	9/02	B63B 22/22) [5, 2006.01] • Lifeboats, life-rafts or the like, specially adapted for
5/02	• Stagings; Scaffolding; Shores or struts [1, 2006.01]		life-saving (B63C 9/01 takes precedence; floatable
5/04	• • Bilge or keel blocks [1, 2006.01]		furniture B63C 9/30; boats in general B63B;
7/00	Salvaging of disabled, stranded, or sunken vessels; Salvaging of vessel parts or furnishings, e.g. of safes; Salvaging of other underwater objects (means for	9/03	 inflatable vessels B63B 7/00; equipment for handling lifeboats or the like B63B 23/00; rafts B63B 35/58) [1, 4, 5, 2006.01] enclosed [5, 2006.01]
	searching for underwater objects	9/04	• • Life-rafts [1, 2006.01]
7/02	B63C 11/48) [1, 2006.01]	9/05	Shark screens, e.g. buoyant means combined with
7/02 7/04	• in which the lifting is done by hauling [1, 2006.01]		means to surround or otherwise enclose the user
7/04 7/06	• using pontoons or the like [1, 2006.01]	9/06	(B63C 9/06 takes precedence) [5, 2006.01]Floatable closed containers with accommodation for
7/06 7/08	 in which lifting action is generated in, or adjacent to, vessels or objects [1, 2006.01] using rigid floats [1, 2006.01] 	3/00	one or more persons inside (B63C 9/01 takes precedence) [1, 5, 2006.01]

9/08	• Life-buoys, e.g. rings; Life-belts, jackets, suits, or the	11/06	• • • with rigid helmet [1, 2006.01]
	like (B63C 9/01 takes precedence; equipment for swimming A63B, e.g. swimming aids	11/08	• • • Control of air pressure within suit, e.g. for
	A63B 31/00) [1, 5, 2006.01]	11/10	controlling buoyancy [1, 2006.01] • Rigid suits [1, 2006.01]
9/087	Body suits, i.e. substantially covering the user's	11/12	• • Diving masks [1, 2006.01]
	body (diving suits B63C 11/04,	11/14	 • with forced air supply [1, 2006.01]
0.4000	B63C 11/10) [5, 2006.01]	11/16	• • • with air supply by suction from diver, e.g.
9/093	• • • using solid buoyant material [5, 2006.01]		snorkels [1, 2006.01]
9/105	 having gas-filled compartments (connection of valves to inflatable elastic bodies 	11/18	 Air supply (for diving masks B63C 11/14,
	B60C 29/00) [5, 2006.01]		B63C 11/16; respiratory apparatus in general
9/11	• covering the torso, e.g. harnesses [5, 2006.01]	11/20	A62B) [1, 2006.01] • • from water surface [1, 2006.01]
9/115	• • • using solid buoyant material [5, 2006.01]	11/20	• • • carried by diver [1, 2006.01]
9/125	 having gas-filled compartments (connection of 	11/24	• • • • in closed circulation [1, 2006.01]
	valves to inflatable elastic bodies	11/26	Communication means (electric communication in
0/10	B60C 29/00) [5, 2006.01]		general H04) [1, 2006.01]
9/13	 attachable to a body member, e.g. arm, neck, head or waist [5, 2006.01] 	11/28	 Heating, e.g. of divers' suits, of breathing
9/135	• • using solid buoyant material [5, 2006.01]		air [1, 2006.01]
9/15	• • having gas-filled compartments (connection of	11/30	• • Ballast [1, 2006.01]
	valves to inflatable elastic bodies	11/32	 Decompression arrangements; Exercise equipment [1, 2006.01]
	B60C 29/00) [5, 2006.01]	11/34	• Diving chambers with mechanical link, e.g. cable, to
9/18	• • Inflatable equipment characterised by the gas-	11/54	a base (manipulators B25J; diving chambers without
0/10	generating device [1, 5, 2006.01] • • • Arrangements for puncturing gas-generating		mechanical link to a base B63G 8/00; caissons
9/19	cartridges [5, 2006.01]		adapted to laying foundations E02D 23/00-
9/20	characterised by signalling means, e.g. lights	11/20	E02D 27/00) [1, 2006.01]
0.20	(arrangement or adaptation of signalling or	11/36	• • of closed type [1, 2006.01]
	lighting devices for ships or other waterborne	11/38 11/40	• with entrance above water surface [1, 2006.01]• adapted to specific work [1, 2006.01]
0 / 0 0	vessels B63B 45/00) [1, 2006.01]	11/40	• • with independent propulsion or directional
9/22	 Devices for holding or launching life-buoys, inflatable life-rafts, or other floatable life-saving 	11/ 72	control [1, 2006.01]
	equipment (equipment for handling life-boats or the	11/44	• • of open type, e.g. diving-bells [1, 2006.01]
	like B63B 23/00) [1, 2006.01]	11/46	• Divers' sleds or like craft, i.e. craft on which man in
9/23	 Containers for inflatable life-saving 		diving-suit rides [1, 2006.01]
	equipment [5, 2006.01]	11/48	Means for searching for underwater objects (means
9/26	• Cast or life lines; Attachments thereto; Containers		for indicating the location of sunken objects B63C 7/26; locating by use of the reflection or
	therefor (adaptations of aerial cableways to shipboard use B63B 27/18; guns for line-throwing F41F; line-		reradiation of radio or other waves
	carrying missiles F42B 12/68) [1, 2006.01]		G01S) [1, 2006.01]
9/28	Adaptations of vessel parts or furnishings to life-	11/49	 Floating structures with underwater viewing
	saving purposes [1, 2006.01]		devices, e.g. with windows [5, 2006.01]
9/30	• • Floatable furniture [1, 2006.01]	11/50	• • using grapnels [1, 2006.01]
9/32	• Equipment adapted to use on ice [1, 2006.01]	11/52	 Tools specially adapted for working underwater, not otherwise provided for [3, 2006.01]
11/00	Equipment for dwelling or working under water;		otherwise provided for [3, 2000.01]
11,00	Means for searching for underwater objects	13/00	Equipment forming part of, or attachable to, vessels,
	(composition of chemical substances for use in		facilitating transport over land (harnesses attachable
	breathing apparatus A62D 9/00; swimming aids or		to vessels for personal carrying A45F; amphibious craft, land vehicles convertible for use on water B60F; land
	equipment A63B 31/00-A63B 35/00; submarines B63G 8/00) [1, 2006.01]		vehicles for carrying boats B60P) [1, 2006.01]
11/02	• Divers' equipment [1, 2006.01]		
11/04	• Resilient suits [1, 2006.01]	15/00	Storing of vessels on land otherwise than by dry-
	- -		docking [1, 2006.01]

B63G OFFENSIVE OR DEFENSIVE ARRANGEMENTS ON VESSELS; MINE-LAYING; MINE-SWEEPING; SUBMARINES; AIRCRAFT CARRIERS (means of attack or defence in general, e.g. turrets, F41H)

Subclass index

Guns, missile launchers	1/00
Launching torpedoes; defence against torpedoes	
Defence or attack against sub- marines, by depth charges or otherwise	
Mines: laying; sweeping; other defence	
Other defensive or offensive arrangements	
Ammunition handling or storing	

SUBMARINES; AIRCRAFT CARRIERS	3/00,	11/00

1/00	Arrangements of guns or missile launchers; Vessels characterised thereby (submarines B63G 8/00; guns, missile launchers F41) [1, 2006.01]	8/24	 Automatic depth adjustment; Safety equipment fo increasing buoyancy, e.g. detachable ballast, floating bodies [1, 2006.01]
		8/26	 Trimming equipment [1, 2006.01]
3/00	Arrangements of ammunition stores or handlers (specially for submarines B63G 8/00; feeding	8/28	• Arrangement of offensive or defensive equipment [1, 2006.01]
	ammunition missiles or projectiles to guns in general F41A 9/00); Vessels characterised thereby (general	8/30	• • of artillery or missile-launching means [1, 2006.01]
0.400	cargo aspects B63B) [1, 2006.01]	8/32	 of torpedo-launching means (torpedo-launching
3/02	• for torpedoes [1, 2006.01]	9,0-	means <u>per se</u> F41F 3/00); of torpedo stores or
3/04	• for missiles [1, 2006.01]		handlers [1, 2, 2006.01]
3/06	• for mines or depth charges [1, 2006.01]	8/33	• • of mine-laying means (mine-laying vessels other than submarines B63G 6/00) [2, 2006.01]
5/00	Vessels characterised by adaptation to torpedo- launching (submarines B63G 8/00; torpedo-launching	8/34	• • Camouflage (for other vessels B63G 13/02; in
	per se F41F 3/00) [1, 2006.01]		general F41H 3/00) [1, 2006.01]
	<u>per se</u> 1 411 5/00) [1, 2000.01]	8/36	 Adaptations of ventilation, cooling, heating, or air-
6/00	Laying of mines or depth charges; Vessels		conditioning (reconditioning air in sealed chambers
	characterised thereby (arrangements on submarines for		A62B 11/00; for vessels in general B63J 2/00; air-
	mine-laying B63G 8/33) [1, 2, 2006.01]	0./20	conditioning in general F24F) [1, 2006.01]
7/00	Mine-sweeping; Vessels characterised	8/38	 Arrangement of visual or electronic watch equipment, e.g. of periscopes, of radar [1, 2006.01]
7700	thereby [1, 2006.01]	8/39	 Arrangements of sonic watch equipment, e.g. low-
7/02	Mine-sweeping means; Means for destroying	0/33	frequency, sonar [1, 2006.01]
	mines [1, 2006.01]	8/40	 Rescue equipment for personnel (life-saving in water
7/04	• • by means of cables [1, 2006.01]	9, 10	not specially adapted for submarine personnel
7/06	• • of electromagnetic type [1, 2006.01]		B63Ĉ) [1, 2006.01]
7/08	• • of acoustic type [1, 2006.01]	8/41	 Capsules, chambers, water-tight boats, or the like, detachable from the submarine [2, 2006.01]
8/00	Underwater vessels, e.g. submarines (submarine hulls	8/42	 Towed underwater vessels [2, 2006.01]
	B63B 3/13; diving chambers with mechanical link, e.g.	0.400	
	cable, to a base B63C 11/34; divers' sleds B63C 11/46;	9/00	Other offensive or defensive arrangements on vessels
8/04	torpedoes F42B 19/00) [1, 2006.01] • Superstructure [1, 2006.01]	0./00	against submarines, torpedoes, or mines [1, 2006.01]
8/06	• Conning-towers [1, 2006.01]	9/02	 Means for protecting vessels against torpedo attack (armoured hulls B63B 3/10) [1, 2006.01]
8/08	• Propulsion (nuclear propulsion B63H 21/18;	9/04	 Nets or the like (net barriers for harbour defence)
0/00	submerged exhausting apparatus F01N 13/12;	3/04	F41H 11/00) [1, 2006.01]
	propulsion power plants or units <u>per se</u> , <u>see</u> the	9/06	 for degaussing vessels (demagnetising in general
	relevant classes) [1, 2006.01]		H01F 13/00) [1, 2006.01]
8/10	• • using steam plant [1, 2006.01]		
8/12	• • using internal-combustion engines [1, 2006.01]	11/00	Aircraft carriers, i.e. warships equipped with a fligh
8/14	• Control of attitude or depth (of torpedoes F42B 19/00) [1, 2006.01]		deck on which airplanes can be launched and landed and with a hangar deck for servicing airplanes (other
8/16	• • by direct use of propellers or jets [1, 2006.01]		vessels or floating structures for aircraft B63B 35/50;
8/18	• • by hydroplanes [1, 2006.01]		aircraft-carrier-deck installations B64F 1/00) [1, 2006.01]
8/20	Steering equipment (B63G 8/16, B63G 8/18 take)		1/00/ [1, 2000,01]
	precedence; steering of vessels in general B63H 25/00) [1, 2, 2006.01]	13/00	Other offensive or defensive arrangements on vessels; Vessels characterised thereby [1, 2006.01]
8/22	Adjustment of buoyancy by water ballasting; Emptying equipment for ballast tanks (stabilising vessels using ballast tanks B63B 43/06) [1, 2006.01]	13/02	• Camouflage (for submarines B63G 8/34; in general F41H 3/00) [2, 2006.01]

MARINE PROPULSION OR STEERING (propulsion of air-cushion vehicles B60V 1/14; specially adapted for submarines, other than nuclear propulsion, B63G; specially adapted for torpedoes F42B 19/00)

Subclass index

PROPULSIVE ELEMENTS; ARRANGEMENTS THEREOF	
Acting directly on water: elements; arrangements	1/00, 3/00, 5/00
PROPULSION USING AIR OR WIND	
Propulsion directly actuated on air	7/00
Sail or rigging arrangements specially adapted for water sport boards	8/00

Marii	ne propulsion provided directly by wind power		9/00
PARTICU	JLAR MEANS		
	ater jets; by muscle power; by anchored cable; wind motors driv		
	rARD PROPULSION UNITS		
	SION POWER PLANT		
	MISSION FROM POWER PLANT TO PROPULSIVE ELEME		
STEERIN	NG, DYNAMIC ANCHORING		25/00
1/00	Propulsive elements directly acting on water (jet	5/03	movably mounted with respect to the hull, e.g.
	propulsion B63H 11/00) [1, 2006.01]		having means to reposition paddle wheel
1/02	• of rotary type [1, 2006.01]		assembly, or to retract paddle or to change paddle
1/04	with rotation axis substantially at right angles to	E /O.4	attitude [4, 2006.01]
	propulsive direction, e.g. paddle	5/04	 with stationary water-guiding elements [1, 2006.01]
1/06	wheels [1, 2006.01] • • with adjustable vanes or blades [1, 2006.01]	5/07	 of propellers (forming part of outboard propulsion
1/08	• • • • with cyclic adjustment [1, 2006.01]	3/0/	units B63H 20/00) [6, 2006.01]
1/00	• • • • • with blades extending axially from a disc-	5/08	• • of more than one propeller [1, 2006.01]
1/10	shaped rotary body [1, 2006.01]	5/10	• • of coaxial type, e.g. of counter-rotative
1/12	 with rotation axis substantially in propulsive 		type [1, 2006.01]
	direction [1, 2006.01]	5/125	
1/14	Propellers (pitch changing		adjustable in direction (movably mounted for
	B63H 3/00) [1, 2006.01]	= ,, ,	steering purposes only B63H 25/42) [6, 2006.01]
1/15	• • • having vibration damping	5/14	characterised by being mounted in non-rotating due to a rings of adjustable for storying purposes.
	means [4, 2006.01]		ducts or rings, e.g. adjustable for steering purposes (shrouding ring attached to blades B63H 1/16; jet
1/16	• • • having a shrouding ring attached to		propulsion B63H 11/00) [1, 2006.01]
1/10	blades [1, 2006.01]	5/15	• • • Nozzles, e.g. Kort-type [4, 2006.01]
1/18	• • • with means for diminishing cavitation, e.g. supercavitation [1, 2006.01]	5/16	 characterised by being mounted in recesses; with
1/20	• • • • Hubs; Blade connections [1, 2006.01]		stationary water-guiding elements; Means to
1/20	• • • • • the blades being foldable [1, 2006.01]		prevent fouling of the propeller, e.g. guards, cages
1/24	• • • • • automatically foldable or		or screens [1, 2006.01]
1/24	unfoldable [1, 2006.01]	5/18	• • of emergency propellers, e.g. arranged at the side
1/26	• • • • Blades [1, 2006.01]	F /D0	of the vessel [1, 2006.01]
1/28	Other means for improving propeller	5/20	 • movable from a working position to a non- working position [4, 2006.01]
	efficiency [1, 2006.01]		working position [4, 2000.01]
1/30	• of non-rotary type [1, 2006.01]		
1/32	 Flaps, pistons, or the like, reciprocating in propulsive direction [1, 2006.01] 	Propulsion	on using air or wind [2020.01]
1/34	• • of endless-track type [1, 2006.01]	7/00	Propulsion directly actuated on air (jet propulsion
1/34	 Swinging flaps, e.g. fishtail type [1, 4, 2006.01] 	7,00	B63H 11/00) [1, 2006.01]
1/37	 Moving-wave propellers, i.e. wherein the 	7/02	• using propellers [1, 2006.01]
1707	propelling means comprise a flexible undulating		
	structure [4, 2006.01]	8/00	Sail or rigging arrangements specially adapted for
1/38	 characterised solely by flotation properties, e.g. 		water sports boards, e.g. for windsurfing or kitesurfing [2020.01]
	drums [1, 2006.01]	8/10	Kite-sails; Kite-wings; Control thereof; Safety means
3/00	Propeller-blade pitch changing [1, 2006.01]	0/10	therefor [2020.01]
3/02	actuated by control element coaxial with propeller	8/12	Kites with inflatable closed
3/02	shaft, e.g. the control element being		compartments [2020.01]
	rotary [1, 2006.01]	8/14	• • Ram-air kites, i.e. kites at least partly inflated by
3/04	the control element being		air entering their leading edges during
	reciprocatable [1, 2006.01]	0./16	use [2020.01]
3/06	characterised by use of non-mechanical actuating	8/16	 Control arrangements, e.g. control bars or control lines [2020.01]
2 / 2 2	means, e.g. electrical [1, 2006.01]	8/18	Arrangements for connecting the user to a kite-
3/08	• • fluid [1, 2006.01]	0/10	sail; Kite-safety means, e.g. chicken loops, safety
3/10	characterised by having pitch control conjoint with propulsion plant control 11, 2006 011.		leashes or quick release mechanisms [2020.01]
3/12	propulsion-plant control [1, 2006.01]the pitch being adjustable only when propeller is	8/20	Rigging arrangements involving masts, e.g. for
3/14	stationary [1, 2006.01]		windsurfing [2020.01]
	•	8/21	• • Wishbones [2020.01]
5/00	Arrangements on vessels of propulsion elements	8/22	• • for connecting wishbones to the mast [2020.01]
= /00	directly acting on water [1, 2006.01]	8/23	• • for tensioning or trimming the clew of the sail, e.g.
5/02	• of paddle wheels, e.g. of stern wheels [1, 2006.01]		outhaul trimmers [2020.01]

8/24	 Arrangements for connecting the rigging to a board [2020.01] 	11/103	• • having means to increase efficiency of propulsive fluid, e.g. discharge pipe provided
8/25	 Arrangements for connecting the sail to a mast foot, e.g. downhaul tensioners or mast foot 		with means to improve the fluid flow [4, 2006.01]
0 / 40	extensions [2020.01]	11/107	• • Direction control of propulsive fluid [4, 2006.01]
8/40	 Arrangements for improving or maintaining the aerodynamic profile of sails, e.g. cambers, battens or foil profiles [2020.01] 	11/11	• • • with bucket or clamshell-type reversing means [4, 2006.01]
8/50	Accessories, e.g. repair kits or kite launching	11/113	• • • • Pivoted outlet [4, 2006.01]
0./50	aids [2020.01]	11/117	• • • Pivoted vane [4, 2006.01]
8/52	 Handheld cleats, cams or hooks for tensioning the downhaul or outhaul of a windsurfing sail [2020.01] 	11/12 11/14	 the propulsive medium being steam or other gas [1, 2006.01] the gas being produced by
8/54	• • Arrangements for connecting the user or the	11/14	combustion [1, 2006.01]
0.456	harness to the wishbone, e.g. trapeze lines or handgrips [2020.01]	11/16	 the gas being produced by other chemical processes [1, 2006.01]
8/56	 Devices to distribute the user's load, e.g. harnesses [2020.01] 	13/00	Marine propulsion by wind motors driving water-
8/58	 • • • Spreader bars; Hook connection arrangements [2020.01] 		engaging propulsive elements [1, 2006.01]
8/70	 Arrangements for handling, stowing or transport thereof [2020.01] 		
		15/00	Marine propulsion by use of vessel-mounted driving
9/00	Marine propulsion provided directly by wind power (wind-motors driving underwater propulsive elements B63H 13/00) [1, 2006.01]		mechanisms co-operating with anchored chains or the like [1, 2006.01]
9/02	• using Magnus effect [1, 2006.01]	16/00	Marine propulsion by muscle power [1, 2006.01]
9/04	• using sails or like wind-catching surfaces (sail or	16/02	• Movable thwarts; Foot-rests [1, 2006.01]
	rigging arrangements specially adapted for water	16/04	• Oars; Sculls; Paddles; Poles [1, 2006.01]
	sports boards, e.g. for windsurfing or kitesurfing B63H 8/00) [1, 2006.01, 2020.01]	16/06 16/067	 Rowlocks; Mountings therefor [1, 2006.01] Rowlocks mounted on a structure extending
9/06	 Types of sail; Constructional features of sails; 	10/00/	beyond the gunwale of the vessel [4, 2006.01]
3700	Arrangements thereof on	16/073	 having oar shaft restraining means [4, 2006.01]
9/061	vessels [1, 2006.01, 2020.01]	16/08	Other apparatus for converting muscle power into
9/065	• Rigid sails; Aerofoil sails [2020.01]• Battens (for water sports board sails	16/10	propulsive effort [1, 2006.01] • for bow-facing rowing [1, 2006.01]
37003	B63H 8/40) [2020.01]	16/16	 using reciprocating pull cable, i.e. a strand-like
9/067	 Sails characterised by their construction or manufacturing process [2020.01] 	10/10	member movable alternately backward and forward [4, 2006.01]
9/068	• • Sails pivotally mounted at mast tip [2020.01]	16/18	using sliding handle or pedal, i.e. the motive force
	• • Kite-sails for vessels [2020.01]		being transmitted to a propelling means by mean
9/071	• • • for use in combination with other propulsion		of a lever operated by the hand or foot of the occupant [4, 2006.01]
0.4050	means, e.g. for improved fuel economy [2020.01]	16/20	• • using rotary cranking arm [4, 2006.01]
9/072	• • • Control arrangements, e.g. for launching or recovery [2020.01]	19/00	Marine propulsion not otherwise provided for [1, 2006.01]
9/08	 Connections of sails to masts, spars, or the like [1, 2006.01] Spars; Running rigging, e.g. reefing equipment 	19/02	 by using energy derived from movement of ambien water, e.g. from rolling or pitching of
±V	(staying of masts B63B 15/02) [1, 2006.01]	40.404	vessels [1, 2006.01]
14 /02		19/04	• • propelled by water current [1, 2006.01]
11/00	Marine propulsion by water jets [1, 2006.01]	19/06	 by discharging gas into ambient water [1, 2006.01] by direct organization with vistor bed or
11/01	 having means to prevent foreign material from clogging fluid passageway [4, 2006.01] 	19/08	 by direct engagement with water-bed or ground [1, 2006.01]
11/02	 the propulsive medium being ambient water [1, 2006.01] 	20/00	Outboard propulsion units, e.g. outboard motors of Z-drives; Arrangements thereof on
11/04	• • by means of pumps [1, 2006.01]		vessels [6, 2006.01]
11/06	• • • of reciprocating type [1, 2006.01]	20/02	 Mounting of propulsion units (B63H 20/08 takes
1/08	• • • of rotary type [1, 2006.01]		precedence) [6, 2006.01]
11/09	 • • by means of pressure pulses applied to a column of liquid, e.g. by ignition of an air/gas 	20/04	• • in a well [6, 2006.01]
	or vapour mixture [4, 2006.01]	20/06	• • on an intermediate support [6, 2006.01]
11/10	 having means for deflecting jet or influencing cross-section thereof [1, 2006.01] 	20/08	 Means enabling movement of the position of the propulsion element, e.g. for trim, tilt or steering; Control of trim or tilt (initiating means for steering B63H 25/02) [6, 2006.01]

20/10	 Means enabling trim or tilt, or lifting of the propulsion element when an obstruction is hit; 	21/32	 Arrangements of propulsion power-unit exhaust uptakes; Funnels peculiar to vessels [1, 2006.01]
	Control of trim or tilt [6, 2006.01]	21/34	 having exhaust-gas deflecting means [1, 2006.01]
20/12	Means enabling steering [6, 2006.01]	21/36	Covers or casing arranged to protect plant or unit
20/14	Transmission between propulsion power unit and	21/30	from marine environment [4, 2006.01]
-0/1.	propulsion element [6, 2006.01]	21/38	Apparatus or methods specially adapted for use on
20/16	allowing movement of the propulsion element in a	21/50	marine vessels, for handling power plant or unit
	horizontal plane only, e.g. for steering [6, 2006.01]		liquids, e.g. lubricants, coolants, fuels or the
20/18	allowing movement of the propulsion element		like [4, 2006.01]
	about a longitudinal axis, e.g. the through transom		
	shaft (B63H 20/22 takes precedence) [6, 2006.01]	23/00	Transmitting power from propulsion power plant to
20/20	• • with provision for reverse drive [6, 2006.01]		propulsive elements (adaptation of transmission to
20/22	 allowing movement of the propulsion element 		allow adjustment in direction of propellers B63H 5/125; transmission between wind motors and propulsive
	about at least a horizontal axis without		elements B63H 13/00, in outboard propulsion units
	disconnection of the drive, e.g. using universal		B63H 20/14; adaptation of transmission to allow
20 /24	joints [6, 2006.01]		adjustment of location of propellers
20/24	• Exhaust gas outlets [6, 2006.01]		B63H 20/08) [1, 2006.01]
20/26	 passing through the propeller or its hub [6, 2006.01] 	23/02	 with mechanical gearing [1, 2006.01]
20/28	• Cooling-water intakes [6, 2006.01]	23/04	 the main transmitting element, e.g. shaft, being
20/20	• for flushing [6, 2006.01]		substantially vertical [1, 2006.01]
20/30	• Housings [6, 2006.01]	23/06	for transmitting drive from a single propulsion
20/32	• comprising stabilising fins [6, 2006.01]	22.400	power unit [1, 2006.01]
20/34	Transporting or testing stands; Protection of power	23/08	• • • with provision for reversing drive [1, 2006.01]
20/30	legs [6, 2006.01]	23/10	 for transmitting drive from more than one propulsion power unit [1, 2006.01]
	-	23/12	 allowing combined use of the propulsion power
21/00	Use of propulsion power plant or units on	25/12	units [1, 2006.01]
	vessels [1, 6, 2006.01]	23/14	• • • with unidirectional drive or where reversal is
	Note(s)		immaterial [1, 2006.01]
	This group <u>covers</u> :	23/16	 characterised by provision of reverse
	arrangements of propulsion power plant or		drive [1, 2006.01]
	units on vessels;	23/18	• • • for alternative use of the propulsion power
	 to some extent, adaptations of such plant or 		units [1, 2006.01]
	units to facilitate such arrangements.	23/20	• • • with separate forward and astern propulsion
21/02	• the vessels being steam-driven (B63H 21/18 takes	23/22	power units, e.g. turbines [1, 2006.01] • with non-mechanical gearing [1, 2006.01]
21/04	precedence) [1, 2006.01]	23/24	• • electric [1, 2006.01]
21/04	 relating to positive-displacement steam engines [1, 2006.01] 	23/24	• • fluid [1, 2006.01]
21/06	 relating to steam turbines [1, 2006.01] 	23/28	 with synchronisation of propulsive
21/08	 relating to steam boilers [1, 2006.01] 	25,25	elements [1, 2006.01]
21/10	relating to condensers or engine-cooling fluid	23/30	 characterised by use of clutches [1, 2006.01]
	heat-exchangers [1, 2006.01]	23/32	• Other parts [1, 2006.01]
21/12	• the vessels being motor-driven (B63H 21/175,	23/34	 Propeller shafts; Paddle-wheel shafts; Attachment
	B63H 21/18 take precedence) [1, 4, 2006.01]		of propellers on shafts [1, 2006.01]
21/14	 relating to internal-combustion 	23/35	 • • Shaft braking or locking, i.e. means to slow or
	engines [1, 2006.01]		stop the rotation of the propeller shaft or to
21/16	• • relating to gas turbines [1, 2006.01]		prevent the shaft from initial
21/165	by hydraulic fluid motor, i.e. wherein a liquid	22/26	rotation [4, 2006.01] • Shaft tubes [1, 2006.01]
	under pressure is utilised to rotate the propelling means [4, 2006.01]	23/36	• • Shaft tubes [1, 2006.01]
21/17	• • by electric motor [4, 2006.01]	25/00	Steering; Slowing-down otherwise than by use of
21/17	the vessel being powered by land vehicle supported		propulsive elements (using movably-installed outboard
21/1/5	by vessel [4, 2006.01]		propulsion units B63H 20/00); Dynamic anchoring, i.e.
21/18	the vessels being powered by nuclear		positioning vessels by means of main or auxiliary
	energy [1, 2006.01]	25/02	propulsive elements [1, 2006.01]Initiating means for steering [1, 2006.01]
21/20	 the vessels being powered by combinations of 	25/02	 automatic, e.g. reacting to compass [1, 2006.01]
	different types of propulsion units [1, 2006.01]	25/0 4 25/06	Steering by rudders (by rudders carrying propellers
21/21	Control means for engine or transmission, specially	25/00	B63H 25/42) [1, 2006.01]
04 /00	adapted for use on marine vessels [4, 2006.01]	25/08	• • Steering gear [1, 2006.01]
21/22	 the propulsion power units being controlled from exterior of engine room, e.g. from navigation bridge; 	25/10	• • • with mechanical transmission [1, 2006.01]
	Arrangements of order telegraphs [1, 2006.01]	25/12	• • • with fluid transmission [1, 2006.01]
21/30	Mounting of propulsion plant or unit, e.g. for anti-	25/14	• • • power assisted; power driven, i.e. using steering
50	vibration purposes (hull reinforcements therefor		engine [1, 2006.01]
	B63B 3/70) [1, 2006.01]	25/16	• • • with alternative muscle or power- operated
			steering [1, 2006.01]

25/18 • • • Transmitting of movement of initiating	25/40 • • • using Magnus effect [1, 2006.01]
means to steering engine [1, 2006.01]	• Steering or dynamic anchoring by propulsive
25/20 • • • • by mechanical means [1, 2006.01]	elements (by jets B63H 25/46); Steering or dynamic
25/22 • • • • by fluid means [1, 2006.01]	anchoring by propellers used therefor only; Steering
25/24 • • • • by electrical means [1, 2006.01]	or dynamic anchoring by rudders carrying
25/26 • • • • Steering engines [1, 2006.01]	propellers [1, 2, 2006.01]
25/28 • • • • of fluid type [1, 2006.01]	• Steering or slowing-down by extensible flaps or the like [1, 2006.01]
25/30 • • • • • hydraulic [1, 2006.01]	
25/32 • • • • steam [1, 2006.01]	25/46 • Steering or dynamic anchoring by jets [1, 2, 2006.01]
25/34 • • • • Transmitting of movement of engine to rudder, e.g. using quadrants,	 Steering or slowing-down by deflection of propeller slip-stream otherwise than by rudder [1, 2006.01]
brakes [1, 2006.01]	25/50 • Slowing-down means not otherwise provided for [1, 2006.01]
25/36 • • Rudder-position indicators [1, 2006.01]	25/52 • Parts for steering not otherwise provided
25/38 • • Rudders [1, 2006.01]	for [1, 2006.01]

B63J AUXILIARIES ON VESSELS

Note(s)

In this subclass, the following term is used with the meaning indicated:

• "auxiliaries" means only apparatus specially arranged for rendering vessels, in general, habitable or operative, in so far as such apparatus is not specifically provided for in another subclass of class B63.

1/00	Arrangements of installations for producing fresh water, e.g. by evaporation and condensation of sea water [1, 2006.01]	2/10 2/12	 Ventilating-shafts; Air-scoops (for port-holes B63B 19/04) [1, 2006.01] Heating; Cooling [1, 2006.01]
2/00 2/02 2/04 2/06	Arrangements of ventilation, heating, cooling, or airconditioning (for vehicles in general B60H; ventilating for cleaning tanks B63B 57/04; for underwater vessels, e.g. submarines, B63G 8/36) [1, 2006.01] • Ventilation; Air-conditioning [1, 2006.01] • of living spaces [1, 2006.01]	2/14 3/00 3/02 3/04	 • of liquid-freight-carrying tanks [1, 2006.01] Driving of auxiliaries (transmission elements per se F16) [1, 2006.01] • from propulsion power plant [1, 2006.01] • from power plant other than propulsion power plant [1, 2006.01]
2/08	• • of holds (heating or cooling of liquid-freight-carrying tanks B63J 2/14; arrangements for stowing frozen goods in vessels B63B 25/26) [1, 2006.01]	4/00 99/00	Arrangements of installations for treating wastewater or sewage (soil-water discharges B63B 29/16) [3, 2006.01] Subject matter not provided for in other groups of this subclass [2009.01]