SECTION B — PERFORMING OPERATIONS; TRANSPORTING

B63 SHIPS OR OTHER WATERBORNE VESSELS; RELATED EQUIPMENT

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

B63B 5/00) [1, 2006.01]

HULLS	
Study; general characteristics	9/00, 1/00
Study; general characteristics	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	15/00, 19/00
EMPTYING, BALLASTING; STABILITY; SAFETY	13/00, 29/16, 39/00, 43/00
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	45/00, 49/00
DETAILS AND ACCESSORIES FOR SHIPS	17/00
CONSTRUCTION, MAINTENANCE, CONVERSION, NOT OTHERWISE PROVIDED FOR	9/00
PARTICULAR KINDS OF SHIPS OR FLOATING STRUCTURES NOT OTHERWISE PROVIDED FO	OR 35/00, 38/00
BUOYS; MARKING NAVIGATION ROUTES	22/00, 51/00

1 /00	W. Jankara da a da Janas da Garago de Brasa d	
1/00	Hydrodynamic or hydrostatic features of hulls or of hydrofoils (hulls peculiar to submarines B63B 3/13;	 Hulls assembled from prefabricated subunits [1, 2006.01]
	keels B63B 3/38) [1, 2006.01]	3/04 • • with permanently-connected sub-
1/02	 deriving lift mainly from water displacement 	units [1, 2006.01]
	(B63B 1/16 takes precedence) [1, 2006.01]	3/06 • • • the sub-units being substantially
1/04	 with single hull [1, 2006.01] 	identical [1, 2006.01]
1/06	• • • Shape of fore part [1, 2006.01]	3/08 • • with detachably-connected sub-units [1, 2006.01]
1/08	• • • Shape of aft part [1, 2006.01]	• Hulls constructed of non-magnetic metal [1, 2006.01
1/10	 with multiple hulls [1, 2006.01] 	3/10 • Armoured hulls [1, 2006.01]
1/12	 • the hulls being interconnected 	3/12 • Frameless hulls [1, 2006.01]
	rigidly [1, 2006.01]	• Hulls built to withstand hydrostatic pressure when
1/14	• • • the hulls being interconnected	fully submerged, e.g. submarine hulls [1, 2006.01]
	resiliently [1, 2006.01]	3/14 • Hull parts (hull armour B63B 3/10) [1, 2006.01]
1/16	 deriving additional lift from hydrodynamic forces [1, 2006.01] 	3/16 • • Shells (ports or closures therefor B63B 19/00) [1, 2006.01]
1/18	 of hydroplane type [1, 2006.01] 	3/18 • • • characterised by being formed predominantly
1/20	• • having more than one planing surface (B63B 1/22 takes precedence) [1, 2006.01]	of parts that may be developed into plane surfaces [1, 2006.01]
1/22	• • • with adjustable planing surfaces [1, 2006.01]	3/20 • • • of double type [1, 2006.01]
1/24	• • of hydrofoil type [1, 2006.01]	3/22 • • • with corrugations [1, 2006.01]
1/26	• • having more than one hydrofoil (B63B 1/28 takes precedence) [1, 2006.01]	3/24 • • • Means for diminishing external ridges or protrusions [1, 2006.01]
1/28	• • • with movable hydrofoils [1, 2006.01]	3/26 • • Frames [1, 2006.01]
1/30	• • • retracting or folding [1, 2006.01]	3/28 • • • of transverse type; Stringers [1, 2006.01]
1/32	 Other means for varying the inherent hydrodynamic 	3/30 • • • • Bilge knees; Beam knees [1, 2006.01]
	characteristics of hulls [1, 2006.01]	3/32 • • • Web frames; Web beams [1, 2006.01]
1/34	 by reducing surface friction [1, 2006.01] 	3/34 • • • of longitudinal type; Bulkhead
1/36	 using mechanical means [1, 2006.01] 	connections [1, 2006.01]
1/38	• • using air bubbles or air layers [1, 2006.01]	3/36 • • • Combined frame systems [1, 2006.01]
1/40	• • by diminishing wave resistance [1, 2006.01]	3/38 • • Keels (movable keels B63B 41/00) [1, 2006.01]
2.125		3/40 • • Stern posts; Stern frames [1, 2006.01]
3/00	Constructions of hulls (non-metallic hulls B63B 5/00) [1, 2006.01]	3/42 • • Shaft brackets [1, 2006.01]

2

3/44	• Bilge keels (stabilising aspect	11/06	• Propeller-shaft tunnels [1, 2006.01]
2/40	B63B 39/06) [1, 2006.01]	13/00	Conduits for emptying or ballasting; Self-bailing
3/46	• Stems [1, 2006.01]	15, 00	equipment; Scuppers [1, 2006.01]
3/48	• Decks (planking B63B 5/06) [1, 2006.01]	13/02	Ports for passing water through vessels'
3/50	• • • of vaulted type [1, 2006.01]		sides [1, 2006.01]
3/52	• • Pillars; Deck girders [1, 2006.01]		
3/54 3/56	• Hatch openings [1, 2006.01]• Bulkheads; Bulkhead reinforcements	15/00	Superstructures; Arrangements or adaptations of
3/30	(arrangements of watertight doors	45.00	masts [1, 2006.01]
	B63B 43/24) [1, 2006.01]	15/02	• Staying of masts or of other
3/58	• • with flat plating [1, 2006.01]		superstructures [1, 2006.01]
3/60	• • • with curved or corrugated plating [1, 2006.01]	17/00	Vessels parts, details, or accessories, not otherwise
3/62	• • Double bottoms; Tank tops [1, 2006.01]		provided for [1, 2006.01]
3/64	• • • Keelsons [1, 2006.01]	17/02	• Awnings [1, 2006.01]
3/66	• • Gratings [1, 2006.01]	17/04	• Stanchions; Guard-rails [1, 2006.01]
3/68	Panellings; Linings, e.g. for insulating	17/06	 Refuse discharge, e.g. for ash [1, 2006.01]
	purposes [1, 2006.01]	40.400	
3/70	• • Reinforcements for carrying localised loads, e.g.	19/00	Arrangements or adaptations of ports, doors,
	propulsion plant, guns [1, 2006.01]		windows, port-holes, or other openings or covers (scuppers B63B 13/00; arrangements of watertight doors
= /00	***		in bulkheads B63B 43/24) [1, 2006.01]
5/00	Hulls characterised by their construction of non- metallic material [1, 2006.01]	19/02	Windows specially adapted for ships or other
5/02		137 02	waterborne vessels, e.g. clear-view screens
5/04	made predominantly of wood [1, 2006.01]Carcasses [1, 2006.01]		or portholes [1, 2006.01]
5/04	• Decks; Shells [1, 2006.01]	19/04	 Air-catching equipment related to windows or port-
5/08	• • with single-layer planking [1, 2006.01]		holes [1, 2006.01]
5/10	• • with multiple-layer planking [1, 2006.01]	19/06	 readily detachable [1, 2006.01]
5/12	• made predominantly of wood with metal	19/08	 Ports or like openings in vessels' sides (ports for
3/12	reinforcement, i.e. composite		passing water through vessels' sides
	construction [1, 2006.01]	10/10	B63B 13/02) [1, 2006.01]
5/14	 made predominantly of concrete, e.g. 	19/10	• Coal ports [1, 2006.01]
	reinforced [1, 2006.01]	19/12	 Hatches; Hatchways (hatch coamings B63B 3/54) [1, 2006.01]
5/16	• • monolithic [1, 2006.01]	19/14	• • Hatch covers [1, 2006.01]
5/18	• • built-up from elements [1, 2006.01]	19/16	• • with detachable boards [1, 2006.01]
5/20	 • in combination with elements of other 	19/18	• • • slidable [1, 2006.01]
	materials [1, 2006.01]	19/19	• • • foldable [3, 2006.01]
5/22	• with reinforcing members external to	19/197	• • • • actuated by fluid pressure [3, 2006.01]
F/24	shell [1, 2006.01]	19/203	• • • • actuated by cables or the like [3, 2006.01]
5/24	• made predominantly of plastics [1, 2006.01]	19/21	• • • of roll-up type [3, 2006.01]
7/00	Collapsible, foldable, inflatable, or like vessels	19/22	• • Hatch beams [1, 2006.01]
	(foldable pontoons B63B 35/36) [1, 2006.01]	19/24	• • Hatch fastenings, e.g. cleats [1, 2006.01]
7/02	• comprising only rigid parts [1, 2006.01]	19/26	• • Gaskets; Draining means [1, 2006.01]
7/04	• • sectionalised [1, 2006.01]	19/28	• • Other safety devices [1, 2006.01]
7/06	 having parts of non-rigid material [1, 2006.01] 		•
7/08	• • inflatable (inflatable buoys B63B 22/22; inflatable	21/00	Tying-up; Shifting, towing, or pushing equipment;
	life-rafts B63C 9/04) [1, 2006.01]		Anchoring (dynamic anchoring
9/00	Methods of designing, building, maintaining,	21/02	B63H 25/00) [1, 4, 2006.01] • Magnetic mooring equipment [1, 2006.01]
9/00	converting, refitting, repairing, or determining	21/02	 Fastening or guiding equipment for chains, ropes,
	properties of, vessels, not otherwise provided for	21/04	hawsers, or the like [1, 2006.01]
	(shuttering for building concrete vessels	21/06	• Bollards [1, 2006.01]
	E04G) [1, 2, 2006.01]	21/08	 Clamping devices [1, 2006.01]
9/02	 using towing tanks or model basins for 	21/10	• • Fairleads [1, 2006.01]
	designing [1, 2006.01]	21/12	• • Rat guards [1, 2006.01]
9/04	Rebuilding ships, e.g. increasing	21/14	Hawse-holes; Hawse-pipes; Hawse-hole
0.406	tonnage [1, 2006.01]	,_,	closures [1, 2006.01]
9/06	Methods of building hulls [2, 2006.01] Determining according to the second t	21/16	• using winches [1, 2006.01]
9/08	Determining vessel properties with respect to stability or balance [2, 2006 01]	21/18	• Stoppers for anchor chains [1, 2006.01]
	stability or balance [2, 2006.01]	21/20	Adaptations of chains, ropes, hawsers, or the like, or
11/00	Interior subdivision of hulls (bulkhead space		of parts thereof [1, 2006.01]
	construction B63B 3/56) [1, 2006.01]	21/22	• Handling or lashing anchors [1, 2006.01]
11/02	Arrangement of bulkheads, e.g. defining cargo	21/24	• Anchors [1, 2006.01]
	spaces [1, 2006.01]	21/26	• • securing to bed [1, 2006.01]
11/04	 Constructional features of bunkers or ballast tanks, e.g. with elastic walls [1, 2006.01] 	21/27	• • • by suction [2, 2006.01]

21/28	• • • driven-in by explosive charge [1, 2006.01]	• Davits, i.e. devices having arms for lowering boats by
21/20	by weight, e.g. flukeless weight	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]	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 	axes [1, 2006.01]
	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]
21/54	floating drilling platforms or dredgers [1, 2006.01] • Boat-hooks or the like [1, 2006.01]	23/26 • with rectilinear translation of boat before lowering [1, 2006.01]
21/54 21/56	Towing or pushing equipment (tugs	23/28 • Devices for projecting or releasing boats for free
21/30	B63B 35/66) [1, 2006.01]	fall [1, 2006.01]
21/58	 Adaptations of hooks for towing; Towing-hook 	23/30 • Devices for guiding boats to water
	mountings [1, 2006.01]	surface [1, 2006.01]
21/60	• • • Quick releases [1, 2006.01]	23/32 • • Rigid guides, e.g. having arms pivoted near
21/62	 characterised by moving of more than one 	waterline [1, 2006.01]
	vessel [1, 2006.01]	• • Guiding means for lowering by cables, e.g. for
21/64	Equipment for towing or pushing vessels by	listing ships [1, 2006.01]
	vehicles or beings moving forward on ground-	 23/36 • • • Skid fenders [1, 2006.01] 23/38 • Transport of boats to davits or the like [1, 2006.01]
	based paths along water-way (boat-hooks or the like B63B 21/54) [2, 2006.01]	 23/38 • Transport of boats to davits or the like [1, 2006.01] 23/40 • Use of lowering or hoisting gear [1, 2006.01]
21/66	 Equipment specially adapted for towing 	23/42 • with braking equipment [1, 2006.01]
=1,00	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]
22/00	Proceedings of the standard and a location of the standard	23/48 • • using winches for boat handling [1, 2006.01]
22/00	Buoys (means for indicating the location of underwater objects B63C 7/26; life-buoys, e.g. rings,	23/50 • • • with tensioning gear [1, 2006.01]
	B63C 9/08) [4, 2006.01]	23/52 • • • with control of winches from boat [1, 2006.01]
22/02	 specially adapted for mooring a vessel [4, 2006.01] 	23/54 • • with trimming equipment [1, 2006.01]
22/04	Anchoring arrangements [4, 2006.01]	23/56 • • • controlled from boat [1, 2006.01]
22/06	 with means to cause the buoy to surface in 	23/58 • with tackle-engaging or release gear [1, 2006.01]
	response to a transmitted signal [4, 2006.01]	23/60 • • Additional connections between boat and
22/08	 having means to release or urge to the surface a 	davit [1, 2006.01]
	buoy on submergence thereof, e.g. to mark location of a sunken object [4, 2006.01]	• Fastening or storing of boats on deck [1, 2006.01]
22/10	• • Water soluble or water weakened means, i.e.	23/64 • Lashings; Covers [1, 2006.01]
22/10	buoy released by buoy-to-object securing	23/66 • Blocks; Chocks [1, 2006.01]
	means being destroyed on contact with	 23/68 • • • for stacking boats [1, 2006.01] 23/70 • Condition-responsive handling equipment, e.g.
	water [4, 2006.01]	automatic release of boat from lowering tackle upon
22/12	 the surfacing of the buoy being assisted by a 	contact with water [4, 2006.01]
	gas released or generated on submergence of	
22/14	the buoy [4, 2006.01]	25/00 Load-accommodating arrangements, e.g. stowing or
22/14	 • Buoy-to-object securing means responsive to hydrostatic pressure [4, 2006.01] 	trimming; Vessels characterised thereby (fishing vessel fish holds B63B 35/24; trimming otherwise than
22/16	specially adapted for marking a navigational	by cargo division. e.g. by use of ballast, B63B 43/06,
22/10	route [4, 2006.01]	B63B 43/08) [1, 2006.01]
22/18	 having means to control attitude or position, e.g. 	25/02 • for bulk goods [1, 2006.01]
	reaction surfaces or tether [4, 2006.01]	25/04 • • solid [1, 2006.01]
22/20	• • Ballast means [4, 2006.01]	25/06 • • • for cereals [1, 2006.01]
22/22	Inflatable buoys with gas generating means	25/08 • • fluid [1, 2006.01]
20.70.4	(B63B 22/12 takes precedence) [4, 2006.01]	25/10 • • • open to ambient air [1, 2006.01]
22/24	• container type, i.e. having provision for the storage of	25/12 • • • closed [1, 2006.01]
22/26	material [4, 2006.01]having means to selectively release contents, e.g.	25/14 • • • • pressurised [1, 2006.01]
<u> </u>	swivel couplings [4, 2006.01]	25/16 • • • heat-insulated [1, 2006.01]
22/28	 submerged when not in use [4, 2006.01] 	25/18 • Detachable decks [1, 2006.01]
	_	25/20 • • for motor vehicles or the like [1, 2006.01]
23/00	Equipment for handling lifeboats or the	• for palletised articles [1, 2006.01]
	like [1, 2006.01]	 Means for preventing unwanted cargo movement, e.g. dunnage [1, 2006.01]
		e.g. damage [1, 2000,01]

25/26	• for frozen goods [1, 2006.01]	35/14	• Fishing vessels [1, 5, 2006.01]
25/28	• for deck loads [1, 2006.01]	35/16	• • Trawlers [1, 5, 2006.01]
27/00	Awangament of this based loading or unleading	35/18	• • • adapted to dragging nets aboard [1, 5, 2006.01]
27/00	Arrangement of ship-based loading or unloading equipment for cargo or passengers (self-discharging	35/20	• • • adapted to hoisting nets aboard [1, 5, 2006.01]
	barges or lighters B63B 35/30; floating cranes	35/22	 Whale catchers; Whale factory
	B66C 23/52) [1, 3, 2006.01]		vessels [1, 5, 2006.01]
		35/24	• • Fish holds [1, 5, 2006.01]
	<u>Note(s) [3]</u>	35/26	• • • for live fish [1, 5, 2006.01]
	Groups B63B 27/30-B63B 27/36 take precedence over	35/28	 Barges or lighters [1, 5, 2006.01]
	groups B63B 27/04-B63B 27/28.	35/30	• • self-discharging [1, 5, 2006.01]
27/04	• of derricks [1, 3, 2006.01]	35/32	 for collecting pollution from open
27/08	• of winches [1, 3, 2006.01]		water [1, 5, 2006.01]
27/10	• of cranes [1, 3, 2006.01]		Ni da da Col Feli
27/12	• • of gantry type [1, 3, 2006.01]		Note(s) [5]
27/14	of ramps, gangways or outboard		If the apparatus for collecting pollution from open water
-,,	ladders [1, 3, 2006.01]		is of interest apart from ship construction aspects, it is
27/16	• of lifts or hoists [1, 3, 2006.01]		also classified in group E02B 15/00.
27/18	of cableways, e.g. with breeches-	35/34	• Pontoons [1, 5, 2006.01]
27710	buoys [1, 3, 2006.01]	35/36	• • foldable [1, 5, 2006.01]
27/22	of conveyors, e.g. of endless-belt or screw-	35/38	• • Rigidly-interconnected pontoons [1, 5, 2006.01]
27722	type [1, 3, 6, 2006.01]	35/40	 for transporting marine vessels [1, 5, 2006.01]
27/24	• of pipe-lines [1, 3, 2006.01]	35/42	 with adjustable draught [1, 5, 2006.01]
27/25	 for fluidised bulk material [3, 2006.01] 	35/44	 Floating buildings, stores, drilling platforms, or
27/26	• of devices with throwing action [1, 3, 2006.01]		workshops, e.g. carrying water-oil separating
27/28	• of chutes [1, 3, 2006.01]		devices [1, 5, 2006.01]
		35/50	 Vessels or floating structures for aircraft (aircraft
27/30	 for transfer at sea between ships or between ships and off-shore structures [3, 2006.01] 		carriers B63G 11/00) [1, 5, 2006.01]
27/32		35/52	 Nets, slipways or the like, for recovering aircraft
	• • using cableways [3, 2006.01]		from the water [1, 5, 2006.01]
27/34	• • using pipe-lines [3, 2006.01]	35/53	 Floating runways [3, 5, 2006.01]
27/36	• for floating cargo [3, 2006.01]	35/54	• Ferries [1, 5, 2006.01]
29/00	Accommodation for crew or passengers not	35/56	 Lightships (marking of navigational route with
25700	otherwise provided for [1, 2006.01]		anchored lightships B63B 51/02) [1, 5, 2006.01]
29/02	Cabins or other living spaces; Construction or	35/58	• Rafts, i.e. free floating waterborne vessels, of shallow
257 02	arrangement thereof [1, 2006.01]		draft, with little or no freeboard, and having a
29/04	Furniture specially adapted for		platform or floor for supporting a user (life-rafts or
	vessels [1, 2006.01]	D= / CO=	the like B63C 9/02) [1, 4, 5, 2006.01]
29/06	• • • Fastening to floors [1, 2006.01]	35/607	having a platform or floor below the level of the
29/08	• • Storm guards on tables, e.g.		buoyancy means, e.g. suspended basket type [4, 5, 2006.01]
	fiddles [1, 2006.01]	25/612	
29/10	• • Berths; Mounting ladders therefor [1, 2006.01]	35/613	 with tubular shaped flotation members [4, 5, 2006.01]
29/12	• • • Self-levelling mountings [1, 2006.01]	35/62	• formed from logs or the like [4, 5, 2006.01]
29/14	Closet or like flushing arrangements; Washing or		_
_3,11	bathing facilities peculiar to ships [1, 2006.01]	35/66	• Tugs [1, 5, 2006.01]
29/16	• Soil-water discharges [1, 2006.01]	35/68	• • for towing [1, 5, 2006.01]
29/18	Arrangements or adaptations of swimming	35/70	• • for pushing [1, 5, 2006.01]
25710	pools [1, 2006.01]	35/71	• Canoes, kayaks or the like [4, 5, 2006.01]
29/20	Arrangements or adaptations of ladders (mounting)	35/73	Other vessels or like floating structures for pleasure
_5, _6	ladders for berths B63B 29/10) [1, 2006.01]		or sport [5, 2006.01]
29/22	• Galleys [2, 2006.01]	35/74	Body supporting buoyant devices with
25722	Suncys (2, 2000,01)		seat [4, 5, 2006.01]
35/00	Vessels or like floating structures adapted for special	35/76	Ring-shaped buoyant members (ring-shaped
	purposes (vessels characterised by load-		life-buoys B63C 9/08) [4, 5, 2006.01]
	accommodating arrangements B63B 25/00; mine-laying	35/78	• • • U-shaped buoyant members [4, 5, 2006.01]
	or mine-sweeping vessels, submarines, aircraft carriers	35/79	• • Surf-boards, e.g. sailboards [5, 2006.01]
	or other vessels characterised by their offensive or	35/81	 Water skis; Water sledges [5, 2006.01]
D= /c=	defensive arrangements B63G) [1, 5, 2006.01]	35/83	 Water shoes; Bog shoes [5, 2006.01]
35/03	• Pipe-laying vessels [5, 2006.01]	35/85	• • Accessories not otherwise provided for, e.g. sticks
35/04	• Cable-laying vessels [1, 5, 2006.01]		for water skiing [5, 2006.01]
35/06	• • for moving cable-ends from ship to	20/00	Vessels on the fleet or or or or or
	shore [1, 5, 2006.01]	38/00	Vessels or like floating structures not otherwise
35/08	• Ice-breakers [1, 5, 2006.01]		provided for [5, 2006.01]
35/10	 having forced pitching or rolling 	39/00	Equipment to decrease pitch, roll, or like unwanted
	equipment [1, 5, 2006.01]	23, 00	vessel movements; Apparatus for indicating vessel
35/12	 having ice-cutters [1, 5, 2006.01] 		attitude [1, 2006.01]
			•

39/02	 to decrease vessel movements by displacement of masses [1, 2, 2006.01] 	43/32	• • of non-sliding type [1, 2006.01]
39/03	 by transferring liquids [2, 2006.01] 	45/00	Arrangements or adaptations of signalling or lighting
39/04	 to decrease vessel movements by using gyroscopes directly [1, 2006.01] 		devices (life-buoys, life-belts, life-jackets, life-suits or the like, characterised by signalling means
39/06	 to decrease vessel movements by using foils acting on ambient water (constructional aspects of bilge keels B63B 3/44) [1, 2006.01] 	45/02	 B63C 9/20) [1, 4, 2006.01] the devices being intended to illuminate the way ahead or other areas of environments [1, 2006.01]
39/08	to decrease vessel movements by using auxiliary jets or propellers (using auxiliary jets or propellers for	45/04	 the devices being intended to indicate the vessel or parts thereof [1, 2006.01]
	steering or dynamic anchoring B63H 25/00) [1, 2006.01]	45/06	 the devices being intended to illuminate vessels' decks or interior [1, 2006.01]
39/10	• to decrease vessel movements by damping the waves, e.g. by pouring oil on water [1, 2, 2006.01]	45/08	• the devices being acoustic [1, 2006.01]
39/12 39/14	 for indicating draught or load [1, 2006.01] for indicating inclination or duration of 	49/00	Arrangements of nautical instruments or navigational aids [1, 2006.01]
	roll [1, 2006.01]	51/00	Marking of navigational routes otherwise than with buoys [1, 4, 2006.01]
41/00	Drop keels, e.g. centre boards or side boards [1, 2006.01]	51/02	• with anchored lightships; by use of lighthouses [1, 4, 2006.01]
43/00	Improving safety of vessels, e.g. damage control, not	51/04	• with free-floating flares [1, 2006.01]
43/02	• reducing risk of capsizing or sinking (by means of	57/00	Tank cleaning specially adapted for vessels [1, 2006.01]
	watertight doors in bulkheads B63B 43/24) [1, 2006.01]	57/02	• by washing [1, 2006.01]
43/04	• • by improving stability [1, 2006.01]	57/04	• by ventilating [1, 2006.01]
43/06	• • • using ballast tanks [1, 2006.01]	59/00	Hull protection specially adapted for vessels;
43/08	• • • by transfer of solid ballast [1, 2006.01]	33700	Cleaning devices specially adapted for
43/10	 by improving buoyancy [1, 2006.01] 		vessels [1, 2006.01]
43/12	• • • using inboard air containers [1, 2006.01]	59/02	 Fenders integral with waterborne vessels or specially
43/14	• • • using outboard floating members [1, 2006.01]		adapted therefor; Rubbing-strakes (skid fenders for
43/16	• • • Temporary equipment for stopping leaks, e.g.	E0 /0.4	lifeboats B63B 23/36) [1, 2006.01]
40./10	collision mats [1, 2006.01]	59/04	Preventing hull fouling [3, 2006.01] Classical design of the Preventing hull for 2006.011
43/18	 preventing collision; reducing collision damage [1, 2006.01] 	59/06	• Cleaning devices for hulls [3, 2006.01]
43/20	• Feelers [1, 2006.01]	59/08	• • of underwater surfaces while afloat (B63B 59/10 takes precedence) [3, 2006.01]
43/24	Arrangements of watertight doors in	59/10	 using trolleys or the like driven along the
	bulkheads [1, 2006.01]	33, 10	surface [3, 2006.01]
43/26	• • of sliding type [1, 2006.01]		
43/28	• • • with mechanical drive [1, 2006.01]	69/00	Equipment for shipping not otherwise provided
43/30	• • • with fluid drive [1, 2006.01]		for [2013.01]
DCOC	LAUNCHING HALLING OUT OF DRY DOCKING	OF VESSE	I C. I HEE CAVING IN WATER, EQUIDMENT FOR

B63C LAUNCHING, HAULING-OUT, OR DRY-DOCKING OF VESSELS; LIFE-SAVING IN WATER; EQUIPMENT FOR DWELLING OR WORKING UNDER WATER; MEANS FOR SALVAGING OR SEARCHING FOR UNDERWATER OBJECTS (floating nets, floating slipways, or the like for recovering aircraft from the water B63B 35/52)

<u>Subclass</u>	<u>index</u>	
Dry-c Trans Slipw SALVAG	IG, LAUNCHING docking; storing on land; launching or hauling-out	
1/00 1/02 1/04	 Dry-docking of vessels or flying-boats (storing of vessels on land otherwise than by dry-docking B63C 15/00; mooring of vessels B63B 21/00; hydraulic-engineering aspects E02B) [1, 2006.01] Floating dry-docks (ship transporters with adjustable draught B63B 35/42) [1, 2006.01] self-docking [1, 2006.01] 	 1/06 • Arrangements of pumping or filling equipment for raising or lowering docks [1, 2006.01] 1/08 • Dry docks (locks E02C 1/00) [1, 2, 2006.01] 1/10 • Centring devices [1, 2006.01] 1/12 • Docks adapted for special vessels, e.g. submarines [1, 2006.01]

863C			
3/00	Launching or hauling-out, e.g. by landborne	9/04	• • Life-rafts [1, 2006.01]
	slipways; Slipways (ship-borne guides for handling	9/05	Shark screens, e.g. buoyant means combined with
	lifeboats or the like B63B 23/30; cranes, winches, or the		means to surround or otherwise enclose the user
	like B66; ship-lifting for adapting to different water levels E02C) [1, 2006.01]	0./06	(B63C 9/06 takes precedence) [5, 2006.01]
3/02	 by longitudinal movement of vessel [1, 2006.01] 	9/06	 Floatable closed containers with accommodation for one or more persons inside (B63C 9/01 takes
3/04	 by sideways movement of vessel [1, 2006.01] 		precedence) [1, 5, 2006.01]
3/06	by vertical movement of vessel, e.g. by	9/08	• Life-buoys, e.g. rings; Life-belts, jackets, suits, or the
	crane [1, 2006.01]		like (B63C 9/01 takes precedence; equipment for
3/08	• Tracks on slipways [1, 2006.01]		swimming A63B, e.g. swimming aids
3/10	 using releasing devices [1, 2006.01] 	0.400 =	A63B 31/00) [1, 5, 2006.01]
3/12	 using cradles (vehicles in general for transporting 	9/087	Body suits, i.e. substantially covering the user's hody (diving suits BC2C 11/04)
	boats or the like B60P) [1, 2006.01]		body (diving suits B63C 11/04, B63C 11/10) [5, 2006.01]
3/14	 using braking means [1, 2006.01] 	9/093	• • using solid buoyant material [5, 2006.01]
5/00	Equipment usable both on slipways and in dry		• • having gas-filled compartments (connection of
57 00	docks [1, 2006.01]	57 105	valves to inflatable elastic bodies
5/02	Stagings; Scaffolding; Shores or struts [1, 2006.01]		B60C 29/00) [5, 2006.01]
5/04	Bilge or keel blocks [1, 2006.01]	9/11	• covering the torso, e.g. harnesses [5, 2006.01]
		9/115	• • using solid buoyant material [5, 2006.01]
7/00	Salvaging of disabled, stranded, or sunken vessels;	9/125	• • having gas-filled compartments (connection of
	Salvaging of vessel parts or furnishings, e.g. of safes; Salvaging of other underwater objects (means for		valves to inflatable elastic bodies
	searching for underwater objects (means for	0/13	B60C 29/00) [5, 2006.01]
	B63C 11/48) [1, 2006.01]	9/13	 attachable to a body member, e.g. arm, neck, head or waist [5, 2006.01]
7/02	 in which the lifting is done by hauling [1, 2006.01] 	9/135	• • using solid buoyant material [5, 2006.01]
7/04	 using pontoons or the like [1, 2006.01] 	9/15	having gas-filled compartments (connection of
7/06	 in which lifting action is generated in, or adjacent to, 		valves to inflatable elastic bodies
	vessels or objects [1, 2006.01]		B60C 29/00) [5, 2006.01]
7/08	• • using rigid floats [1, 2006.01]	9/18	 Inflatable equipment characterised by the gas-
7/10	• • using inflatable floats external to vessels or		generating device [1, 5, 2006.01]
7/12	objects [1, 2006.01]by bringing air or floating bodies or material into	9/19	• • • Arrangements for puncturing gas-generating
//12	vessels or objects [1, 2006.01]	9/20	cartridges [5, 2006.01] • characterised by signalling means, e.g. lights
7/14	 using freezing for closing holes or for strengthening 	3/20	(arrangement or adaptation of signalling or
	the vessel or the like [1, 2006.01]		lighting devices for ships or other waterborne
7/16	 Apparatus engaging vessels or objects [1, 2006.01] 		vessels B63B 45/00) [1, 2006.01]
7/18	• • using nets [1, 2006.01]	9/22	 Devices for holding or launching life-buoys,
7/20	• • using grabs [1, 2006.01]		inflatable life-rafts, or other floatable life-saving
7/22	 using electromagnets or suction 		equipment (equipment for handling life-boats or the like B63B 23/00) [1, 2006.01]
	devices [1, 2006.01]	9/23	Containers for inflatable life-saving
7/24	Apparatus for passing chains or the like under vessels Apparatus for passing chains or the like under vessels	3/23	equipment [5, 2006.01]
7/20	or objects [1, 2006.01]	9/26	• Cast or life lines; Attachments thereto; Containers
7/26	 Means for indicating the location of underwater objects, e.g. sunken vessels (means for searching for 		therefor (adaptations of aerial cableways to shipboard
	underwater objects B63C 11/48; buoys in general		use B63B 27/18; guns for line-throwing F41F; line-
	B63B 22/00) [1, 2006.01]		carrying missiles F42B 12/68) [1, 2006.01]
7/28	 Refloating stranded vessels [1, 2006.01] 	9/28	Adaptations of vessel parts or furnishings to life- Adaptations of vessel parts or furnishings to life-
7/30	• Floatable safes (safes in general E05G) [1, 2006.01]	0/20	saving purposes [1, 2006.01]• Floatable furniture [1, 2006.01]
0./00	Life caving in victor (life anning in grand A COD)	9/30 9/32	Floatable furniture [1, 2006.01]Equipment adapted to use on ice [1, 2006.01]
9/00	Life-saving in water (life-saving in general A62B; arrangement or adaptation of signalling or lighting	3/34	Equipment adapted to use on ice [1, 2000.01]
	devices for ships, other waterborne vessels or for	11/00	Equipment for dwelling or working under water;
	equipment for shipping B63B 45/00; rescue equipment		Means for searching for underwater objects
	specially adapted for submarine personnel		(composition of chemical substances for use in
	B63G 8/40) [1, 2006.01]		breathing apparatus A62D 9/00; swimming aids or equipment A63B 31/00-A63B 35/00; submarines
Q / N 1	• Air-sea rescue devices i a equipment carried by and		equipment 11000 01/00-11000 00/00, submarines

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

- B63B 22/22) [5, 2006.01] 9/02 Lifeboats, life-rafts or the like, specially adapted for life-saving (B63C 9/01 takes precedence; floatable furniture B63C 9/30; boats in general B63B; inflatable vessels B63B 7/00; $\stackrel{-}{\text{equipment}}$ for handling lifeboats or the like B63B 23/00; rafts B63B 35/58) [1, 4, 5, 2006.01]
- 9/03 • enclosed [5, 2006.01]

• • Diving masks [1, 2006.01]

• • Rigid suits [1, 2006.01]

B63G 8/00) [1, 2006.01]

• Divers' equipment [1, 2006.01]

Resilient suits **[1, 2006.01]**

• with rigid helmet [1, 2006.01]

• • • with forced air supply [1, 2006.01]

Control of air pressure within suit, e.g. for

controlling buoyancy [1, 2006.01]

11/02

11/04

11/06

11/08

11/10

11/12

11/14

			B63C
11/16	• • • with air supply by suction from diver, e.g.	11/42	• • • with independent propulsion or directional
11,10	snorkels [1, 2006.01]	11,	control [1, 2006.01]
11/18	• • Air supply (for diving masks B63C 11/14,	11/44	• • of open type, e.g. diving-bells [1, 2006.01]
	B63C 11/16; respiratory apparatus in general A62B) [1, 2006.01]	11/46	 Divers' sleds or like craft, i.e. craft on which man in diving-suit rides [1, 2006.01]
11/20	• • • from water surface [1, 2006.01]	11/48	Means for searching for underwater objects (means
11/22	• • • carried by diver [1, 2006.01]		for indicating the location of sunken objects B63C 7/26; locating by use of the reflection or
11/24 11/26	• • in closed circulation [1, 2006.01]• Communication means (electric communication in		reradiation of radio or other waves
11/20	general H04) [1, 2006.01]		G01S) [1, 2006.01]
11/28	 Heating, e.g. of divers' suits, of breathing air [1, 2006.01] 	11/49	 Floating structures with underwater viewing devices, e.g. with windows [5, 2006.01]
11/30	• • Ballast [1, 2006.01]	11/50	 using grapnels [1, 2006.01]
11/32	• • Decompression arrangements; Exercise equipment [1, 2006.01]	11/52	 Tools specially adapted for working underwater, not otherwise provided for [3, 2006.01]
11/34	• Diving chambers with mechanical link, e.g. cable, to	13/00	Equipment forming part of, or attachable to, vessels,
	a base (manipulators B25J; diving chambers without mechanical link to a base B63G 8/00; caissons		facilitating transport over land (harnesses attachable
	adapted to laying foundations E02D 23/00-		to vessels for personal carrying A45F; amphibious craft,
	E02D 27/00) [1, 2006.01]		land vehicles convertible for use on water B60F; land vehicles for carrying boats B60P) [1, 2006.01]
11/36	• • of closed type [1, 2006.01]		(emerco for earlying south 2001) [2, 200002]
11/38	• • • with entrance above water surface [1, 2006.01]	15/00	Storing of vessels on land otherwise than by dry-
11/40	• • • adapted to specific work [1, 2006.01]		docking [1, 2006.01]
Subclass			
	IVE OR DEFENSIVE INSTALLATIONS OR ARRANGEMEN		1/00
	, missile launchers ching torpedoes; defence against torpedoes		
	nce or attack against sub- marines, by depth charges or otherwise		
Mines	s: laying; sweeping; other defence		6/00, 7/00, 9/00
	defensive or offensive arrangementsunition handling or storing		
	RINES; AIRCRAFT CARRIERS		
	· ————————————————————————————————————		
1/00	Arrangements of guns or missile launchers; Vessels	7/08	• • of acoustic type [1, 2006.01]
	characterised thereby (submarines B63G 8/00; guns, missile launchers F41) [1, 2006.01]	8/00	Underwater vessels, e.g. submarines (submarine hulls
	missile idunctiers F41) [1, 2000.01]	0/00	B63B 3/13; diving chambers with mechanical link, e.g.
3/00	Arrangements of ammunition stores or handlers		cable, to a base B63C 11/34; divers' sleds B63C 11/46;
	(specially for submarines B63G 8/00; feeding	0./0.4	torpedoes F42B 19/00) [1, 2006.01]
	ammunition missiles or projectiles to guns in general F41A 9/00); Vessels characterised thereby (general	8/04	• Superstructure [1, 2006.01]
	cargo aspects B63B) [1, 2006.01]	8/06 8/08	Conning-towers [1, 2006.01]Propulsion (nuclear propulsion B63H 21/18;
3/02	• for torpedoes [1, 2006.01]	0,00	submerged exhausting apparatus F01N 13/12;
3/04	• for missiles [1, 2006.01]		propulsion power plants or units per se, see the
3/06	• for mines or depth charges [1, 2006.01]		relevant classes) [1, 2006.01]
5/00	Vessels characterised by adaptation to torpedo-	8/10	• • using steam plant [1, 2006.01]
5/00	launching (submarines B63G 8/00; torpedo-launching	8/12	• • using internal-combustion engines [1, 2006.01]
	per se F41F 3/00) [1, 2006.01]	8/14	• Control of attitude or depth (of torpedoes F42B 19/00) 11. 2006 01

7/04 • • by means of cables [1, 2006.01] B63B 43/06) [1, 2006.01] 7/06 • • of electromagnetic type [1, 2006.01]

8/16

8/18

8/20

8/22

F42B 19/00) **[1, 2006.01]**

by hydroplanes **[1, 2006.01]**

B63H 25/00) **[1, 2, 2006.01]**

vessels using ballast tanks

• by direct use of propellers or jets [1, 2006.01]

Steering equipment (B63G 8/16, B63G 8/18 take precedence; steering of vessels in general

Emptying equipment for ballast tanks (stabilising

Adjustment of buoyancy by water ballasting;

thereby [1, 2006.01]

mines [1, 2006.01]

Laying of mines or depth charges; Vessels

mine-laying B63G 8/33) [1, 2, 2006.01]

Mine-sweeping; Vessels characterised

· Mine-sweeping means; Means for destroying

characterised thereby (arrangements on submarines for

6/00

7/00

7/02

8/24	 Automatic depth adjustment; Safety equipment for increasing buoyancy, e.g. detachable ballast, floating bodies [1, 2006.01] 	8/41 8/42	 Capsules, chambers, water-tight boats, or the like, detachable from the submarine [2, 2006.01] Towed underwater vessels [2, 2006.01]
8/26 8/28 8/30	 Trimming equipment [1, 2006.01] Arrangement of offensive or defensive equipment [1, 2006.01] of artillery or missile-launching means [1, 2006.01] 	9/00 9/02	Other offensive or defensive arrangements on vessels against submarines, torpedoes, or mines [1, 2006.01] • Means for protecting vessels against torpedo attack (armoured hulls B63B 3/10) [1, 2006.01]
8/32	 of torpedo-launching means (torpedo-launching means <u>per se</u> F41F 3/00); of torpedo stores or 	9/04	• Nets or the like (net barriers for harbour defence F41H 11/00) [1, 2006.01]
8/33 8/34 8/36	 handlers [1, 2, 2006.01] of mine-laying means (mine-laying vessels other than submarines B63G 6/00) [2, 2006.01] Camouflage (for other vessels B63G 13/02; in general F41H 3/00) [1, 2006.01] Adaptations of ventilation, cooling, heating, or airconditioning (reconditioning air in sealed chambers 	9/06 11/00	 for degaussing vessels (demagnetising in general H01F 13/00) [1, 2006.01] Aircraft carriers, i.e. warships equipped with a flight deck on which airplanes can be launched and landed and with a hangar deck for servicing airplanes (other vessels or floating structures for aircraft B63B 35/50; aircraft-carrier-deck installations
	A62B 11/00; for vessels in general B63J 2/00; airconditioning in general F24F) [1, 2006.01]		B64F 1/00) [1, 2006.01]
8/38	 Arrangement of visual or electronic watch equipment, e.g. of periscopes, of radar [1, 2006.01] 	13/00	Other offensive or defensive arrangements on vessels; Vessels characterised thereby [1, 2006.01]
8/39	 Arrangements of sonic watch equipment, e.g. low-frequency, sonar [1, 2006.01] 	13/02	• Camouflage (for submarines B63G 8/34; in general F41H 3/00) [2, 2006.01]
8/40	 Rescue equipment for personnel (life-saving in water, not specially adapted for submarine personnel B63C) [1, 2006.01] 		,
			led posterior le la

B63H MARINE PROPULSION OR STEERING (propulsion of air-cushion vehicles B60V 1/14; peculiar to submarines, other than nuclear propulsion, B63G; peculiar to torpedoes F42B 19/00)

Subclass index

Actin Arran Actec PARTICU by rea Other OUTBOA PROPUL TRANSM	SIVE ELEMENTS; ARRANGEMENTS THEREOF Ig directly on water: elements; arrangements	7/00 9/00 g water-engaging devices
1/00	Propulsive elements directly acting on water (jet propulsion B63H 11/00; attachment of propellers on	1/16 • • • having a shrouding ring attached to blades [1, 2006.01]
	shafts B63H 23/34) [1, 2006.01]	1/18 • • • with means for diminishing cavitation, e.g.
1/02	of rotary type (endless-track type PROVIDED TO SEE 2000 CT	supercavitation [1, 2006.01]
4.10.4	B63H 1/34) [1, 2006.01]	1/20 • • • Hubs; Blade connections [1, 2006.01]
1/04	 with rotation axis substantially at right angles to propulsive direction, e.g. paddle 	1/22 • • • • the blades being foldable [1, 2006.01]
	wheels [1, 2006.01]	1/24 • • • • • automatically foldable or unfoldable [1, 2006.01]
1/06	• • with adjustable vanes or blades [1, 2006.01]	1/26 • • • Blades [1, 2006.01]
1/08	• • • with cyclic adjustment [1, 2006.01]	1/28 • • • Other means for improving propeller
1/10	• • • • • with blades extending axially from a disc- shaped rotary body [1, 2006.01]	efficiency (water-guiding elements formed by shape of hull B63H 5/00) [1, 2006.01]
1/12	 with rotation axis substantially in propulsive 	1/30 • of non-rotary type [1, 2006.01]
	direction [1, 2006.01]	1/32 • Flaps, pistons, or the like, reciprocating in
1/14	• • • Propellers (pitch changing	propulsive direction [1, 2006.01]
4 /4 =	B63H 3/00) [1, 2006.01]	1/34 • • of endless-track type [1, 2006.01]
1/15	 • • having vibration damping means (anti- vibration mounting of propulsion plant 	1/36 • • Swinging flaps, e.g. fishtail type [1, 4, 2006.01]
	B63H 21/30; means for damping vibration in	1/37 • • Moving-wave propellers, i.e. wherein the
	general F16F) [4, 2006.01]	propelling means comprise a flexible undulating structure [4, 2006.01]

1/38	 characterised solely by flotation properties, e.g. drums [1, 2006.01] 	11/00	Effecting propulsion by jets, i.e. reaction principle (steering by jet action B63H 25/46; power plant <u>per se</u> , <u>see</u> the relevant classes) [1, 2006.01]
3/00 3/02	 Propeller-blade pitch changing [1, 2006.01] actuated by control element coaxial with propeller shaft, e.g. the control element being 	11/01 11/02	 having means to prevent foreign material from clogging fluid passageway [4, 2006.01] the propulsive medium being ambient
3/04	 rotary [1, 2006.01] the control element being reciprocatable [1, 2006.01] 	11/04	water [1, 2006.01] • by means of pumps [1, 2006.01]
3/06	 characterised by use of non-mechanical actuating means, e.g. electrical [1, 2006.01] 	11/06 11/08 11/09	 • of reciprocating type [1, 2006.01] • of rotary type [1, 2006.01] • by means of pressure pulses applied to a
3/08 3/10	• fluid [1, 2006.01]• characterised by having pitch control conjoint with	11/03	column of liquid, e.g. by ignition of an air/gas or vapour mixture [4, 2006.01]
3/12	 propulsion-plant control [1, 2006.01] the pitch being adjustable only when propeller is stationary [1, 2006.01] 	11/10	 having means for deflecting jet or influencing cross-section thereof [1, 2006.01]
5/00	Arrangements on vessels of propulsion elements directly acting on water [1, 2006.01]	11/103	 having means to increase efficiency of propulsive fluid, e.g. discharge pipe provided with means to improve the fluid flow [4, 2006.01]
5/02 5/03	 of paddle wheels, e.g. of stern wheels [1, 2006.01] movably mounted with respect to the hull, e.g. having means to reposition paddle wheel 	11/107	• • • Direction control of propulsive fluid [4, 2006.01]
	assembly, or to retract paddle or to change paddle attitude [4, 2006.01]	11/11	• • • with bucket or clamshell-type reversing means [4, 2006.01]
5/04	• with stationary water-guiding	11/113 11/117	• • • Pivoted outlet [4, 2006.01]• • • Pivoted vane [4, 2006.01]
5/07	 elements [1, 2006.01] of propellers (forming part of outboard propulsion units B63H 20/00) [6, 2006.01] 	11/12	 the propulsive medium being steam or other gas [1, 2006.01]
5/08	• • of more than one propeller [1, 2006.01]	11/14	 the gas being produced by combustion [1, 2006.01]
5/10	• • • of coaxial type, e.g. of counter-rotative type [1, 2006.01]	11/16	 the gas being produced by other chemical processes [1, 2006.01]
5/125	 movably mounted with respect to hull, e.g. adjustable in direction (movably mounted for steering purposes only B63H 25/42) [6, 2006.01] 	13/00	Effecting propulsion by wind motors driving water- engaging propulsive elements [1, 2006.01]
5/14	 characterised by being mounted in non-rotating ducts or rings, e.g. adjustable for steering purposes (shrouding ring attached to blades B63H 1/16; jet propulsion B63H 11/00) [1, 2006.01] 	15/00	Effecting propulsion by use of vessel-mounted driving mechanisms co-operating with anchored chains or the like [1, 2006.01]
5/15	• • • Nozzles, e.g. Kort-type [4, 2006.01]	10/00	Effective annualization by annual and an (a discussion)
5/16	 characterised by being mounted in recesses; with stationary water-guiding elements; Means to prevent fouling of the propeller, e.g. guards, cages or screens (anti-fouling paints 	16/00	Effecting propulsion by muscle power (swimming frameworks with swimmer-operated driving mechanisms A63B 35/00; land-based training equipment for rowing or sculling A63B 69/06) [1, 2006.01]
	C09D 5/16) [1, 2006.01]	16/02	• Movable thwarts; Foot-rests [1, 2006.01]
5/18	 of emergency propellers, e.g. arranged at the side of the vessel [1, 2006.01] 	16/04 16/06	Oars; Sculls; Paddles; Poles [1, 2006.01]Rowlocks; Mountings therefor [1, 2006.01]
5/20	 movable from a working position to a non-working position [4, 2006.01] 	16/067	Rowlocks, Mountings therefor [1, 2000.01] Rowlocks mounted on a structure extending beyond the gunwale of the vessel [4, 2006.01]
7/00	Arrangements of propulsive devices directly acting	16/073	• • having oar shaft restraining means [4, 2006.01]
7/02	on air (jet propulsion B63H 11/00) [1, 2006.01] using propellers (air-screws of aircraft type	16/08	 Other apparatus for converting muscle power into propulsive effort (general features of propulsion elements, see the relevant groups) [1, 2006.01]
	B64C) [1, 2006.01]	16/10	• • for bow-facing rowing [1, 2006.01]
9/00	Propulsive devices directly acted on by wind; Arrangements thereof (air-driven propellers driving underwater propulsive elements	16/16	 using reciprocating pull cable, i.e. a strand-like member movable alternately backward and forward [4, 2006.01]
	B63H 13/00) [1, 2006.01]	16/18	• using sliding handle or pedal, i.e. the motive force
9/02	• using Magnus effect [1, 2006.01]		being transmitted to a propelling means by means of a lever operated by the hand or foot of the
9/04	• using sails or like wind-catching surfaces (sailing sledges or ice boats B62B 15/00) [1, 2006.01]	16/20	occupant [4, 2006.01] • using rotary cranking arm [4, 2006.01]
9/06	 Construction or types of sails; Arrangements thereof on vessels [1, 2006.01] 		
9/08	 Connections of sails to masts, spars, or the like [1, 2006.01] 	19/00	Effecting propulsion of vessels, not otherwise provided for [1, 2006.01]
9/10	 • • Spars; Running rigging, e.g. reefing equipment (staying of masts B63B 15/02) [1, 2006.01] 	19/02	by using energy derived from movement of ambient water, e.g. from rolling or pitching of yessels [1, 2006 01].

IPC (2017.01), Section B 9

19/04 • • propelled by water current **[1, 2006.01]**

19/06	• by discharging gas into ambient water (with jet action B63H 11/12; for reducing surface friction	21/12	 the vessels being motor-driven (B63H 21/175, B63H 21/18 take precedence) [1, 4, 2006.01]
19/08	B63B 1/38) [1, 2006.01] • by direct engagement with water-bed or	21/14	 relating to internal-combustion engines [1, 2006.01]
	ground [1, 2006.01]	21/16	 relating to gas turbines [1, 2006.01]
20/00	Outboard propulsion units, i.e. propulsion units having a substantially vertical power leg mounted	21/165	 by hydraulic fluid motor, i.e. wherein a liquid under pressure is utilised to rotate the propelling means [4, 2006.01]
	outboard of a hull and terminating in a propulsion element, e.g. "outboard motors", Z-drives (power	21/17	• • by electric motor (electrically-propelled vehicles B60L) [4, 2006.01]
20/02	plants per se, see the relevant classes); Arrangements thereof on vessels [6, 2006.01]	21/175	 the vessel being powered by land vehicle supported by vessel [4, 2006.01]
20/02	 Mounting of propulsion units (B63H 20/08 takes precedence) [6, 2006.01] 	21/18	 the vessels being powered by nuclear energy [1, 2006.01]
20/04	• in a well [6, 2006.01]	21/20	 the vessels being powered by combinations of
20/06 20/08	• on an intermediate support [6, 2006.01]• Means enabling movement of the position of the		different types of propulsion units [1, 2006.01]
20/00	propulsion element, e.g. for trim, tilt, or steering (transmissions allowing movement of the propulsion	21/21	 Control means for engine or transmission, specially adapted for use on marine vessels [4, 2006.01]
	element B63H 20/14); Control of trim or tilt	21/22	the propulsion power units being controlled from
	(initiating means for steering B63H 25/02) [6, 2006.01]		exterior of engine room, e.g. from navigation bridge; Arrangements of order telegraphs (order telegraphs per se G08B 9/00) [1, 2006.01]
20/10	Means enabling trim or tilt, or lifting of the propulsion element when an electrostic is bits.	21/30	Mounting of propulsion plant or unit, e.g. for anti-
	propulsion element when an obstruction is hit; Control of trim or tilt [6, 2006.01]		vibration purposes (hull reinforcements therefor
20/12	 Means enabling steering [6, 2006.01] 		B63B 3/70; vibration-dampers, suppression of
20/14	 Transmission between propulsion power unit and propulsion element [6, 2006.01] 	21/32	vibration in systems F16F; engine beds F16M) [1, 2006.01] • Arrangements of propulsion power-unit exhaust
20/16	 allowing movement of the propulsion element in a horizontal plane only, e.g. for steering [6, 2006.01] 	21/32	uptakes; Funnels peculiar to vessels (engine exhausts in general F01N; flue devices for furnaces in general
20/18	allowing movement of the propulsion element		F23J) [1, 2006.01]
	about a longitudinal axis, e.g. the through transom shaft (B63H 20/22 takes precedence) [6, 2006.01]	21/34	• • having exhaust-gas deflecting means [1, 2006.01]
20/20	 with provision for reverse drive [6, 2006.01] 	21/36	Covers or casing arranged to protect plant or unit
20/22	allowing movement of the propulsion element		from marine environment (hull construction B63B 3/00) [4, 2006.01]
	about at least a horizontal axis without	21/38	Apparatus or methods specially adapted for use on
	disconnection of the drive, e.g. using universal joints [6, 2006.01]		marine vessels, for handling power plant or unit
20/24	• Exhaust gas outlets [6, 2006.01]		liquids, e.g. lubricants, coolants, fuels or the like [4, 2006.01]
20/26	 passing through the propeller or its 		
	hub [6, 2006.01]	23/00	Transmitting power from propulsion power plant to
20/28	• Cooling-water intakes [6, 2006.01]		propulsive elements (changing pitch of propellers B63H 3/00; adaptation of transmission to allow
20/30 20/32	for flushing [6, 2006.01]Housings [6, 2006.01]		adjustment in direction of propellers B63H 5/125;
20/32	 nousings [6, 2006.01] comprising stabilising fins [6, 2006.01] 		transmission between wind motors and propulsive
20/34	Transporting or testing stands; Protection of power		elements B63H 13/00, in outboard propulsion units
	legs [6, 2006.01]		B63H 20/14; adaptation of transmission to allow adjustment of location of propellers B63H 20/08; for
21/00	Use of propulsion power plant or units on vessels (use		vehicles in general B60K; driving auxiliary machinery
	of outboard propulsion units B63H 20/00; hull	23/02	B63J; transmission elements <u>per se</u> F16) [1, 2006.01] • with mechanical gearing [1, 2006.01]
	reinforcements for carrying propulsion power plant or	23/02	 the main transmitting element, e.g. shaft, being
	units B63B 3/70; propulsion power plant or units <u>per se</u> , <u>see</u> the relevant classes) [1, 6, 2006.01]	23/04	substantially vertical [1, 2006.01] • for transmitting drive from a single propulsion
	Note(s)	25,00	power unit [1, 2006.01]
	This group <u>covers</u> :	23/08	• • • with provision for reversing drive [1, 2006.01]
	arrangements of propulsion power plant or	23/10	for transmitting drive from more than one
	units on vessels;to some extent, adaptations of such plant or		propulsion power unit (for synchronisation of propulsive elements B63H 23/28) [1, 2006.01]
	units to facilitate such arrangements.	23/12	 • allowing combined use of the propulsion power
21/02	• the vessels being steam-driven (B63H 21/18 takes precedence) [1, 2006.01]	23/14	units [1, 2006.01] • • • with unidirectional drive or where reversal is
21/04	 relating to positive-displacement steam engines [1, 2006.01] 	23/14	immaterial [1, 2006.01] • • • characterised by provision of reverse
21/06	 relating to steam turbines [1, 2006.01] 	25/10	drive [1, 2006.01]
21/08	• relating to steam boilers [1, 2006.01]	23/18	• • • for alternative use of the propulsion power
21/10	• relating to condensers or engine-cooling fluid heat-exchangers [1, 2006.01]		units [1, 2006.01]

heat-exchangers [1, 2006.01]

23/20	• • • • with separate forward and astern propulsion power units, e.g. turbines [1, 2006.01]	25/12 • • • with fluid transmission [1, 2006.01] 25/14 • • power assisted; power driven, i.e. using steering
23/22	 with non-mechanical gearing [1, 2006.01] 	engine [1, 2006.01]
23/24	• • electric [1, 2006.01]	25/16 • • • with alternative muscle or power- operated
23/26	• • fluid [1, 2006.01]	steering [1, 2006.01]
23/28	 with synchronisation of propulsive elements [1, 2006.01] 	25/18 • • • • Transmitting of movement of initiating means to steering engine [1, 2006.01]
23/30	 characterised by use of clutches [1, 2006.01] 	25/20 • • • • by mechanical means [1, 2006.01]
23/32	• Other parts [1, 2006.01]	25/22 • • • • by fluid means [1, 2006.01]
23/34	 Propeller shafts; Paddle-wheel shafts; Attachment 	25/24 • • • • by electrical means [1, 2006.01]
	of propellers on shafts (shafts in general F16C;	25/26 • • • • Steering engines [1, 2006.01]
	attachment of a member on a shaft in general	25/28 • • • • of fluid type [1, 2006.01]
	F16D 1/06) [1, 2006.01]	25/30 • • • • hydraulic [1, 2006.01]
23/35	Shaft braking or locking, i.e. means to slow or	25/32 • • • • steam [1, 2006.01]
	stop the rotation of the propeller shaft or to prevent the shaft from initial	25/34 • • • Transmitting of movement of engine to
	rotation [4, 2006.01]	rudder, e.g. using quadrants, brakes [1, 2006.01]
23/36	Shaft tubes (propeller-shaft tunnels B63B 11/06; Shaft tubes (propeller-shaft tunnels B63B 1	25/36 • • Rudder-position indicators [1, 2006.01]
	shaft-tube seals F16J) [1, 2006.01]	25/38 • • Rudders (stern posts B63B 3/40) [1, 2006.01]
25/00	Steering; Slowing-down otherwise than by use of	25/40 • • • using Magnus effect [1, 2006.01]
	propulsive elements (using adjustably-mounted	• Steering or dynamic anchoring by propulsive
	propeller ducts or rings for steering B63H 5/14; using	elements (by jets B63H 25/46); Steering or dynamic
	movably-installed outboard propulsion units	anchoring by propellers used therefor only; Steering
	B63H 20/00); Dynamic anchoring, i.e. positioning	or dynamic anchoring by rudders carrying
	vessels by means of main or auxiliary propulsive	propellers [1, 2, 2006.01]
	elements (anchoring, other than dynamic, B63B 21/00; equipment to decrease pitch, roll, or like unwanted	 Steering or slowing-down by extensible flaps or the like [1, 2006.01]
	vessel movements by auxiliary jets or propellers	25/46 • Steering or dynamic anchoring by jets [1, 2, 2006.01]
	B63B 39/08) [1, 2006.01]	• Steering or slowing-down by deflection of propeller
25/02	 Initiating means for steering [1, 2006.01] 	slip-stream otherwise than by rudder [1, 2006.01]
25/04	• • automatic, e.g. reacting to compass [1, 2006.01]	25/50 • Slowing-down means not otherwise provided
25/06	Steering by rudders (by rudders carrying propellers	for [1, 2006.01]
	B63H 25/42) [1, 2006.01]	25/52 • Parts for steering not otherwise provided
25/08	• • Steering gear [1, 2006.01]	for [1, 2006.01]
25/10	• • • with mechanical transmission [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	2/10	 Ventilating-shafts; Air-scoops (for port-holes B63B 19/04) [1, 2006.01]
	water [1, 2006.01]	2/12	 Heating; Cooling [1, 2006.01]
2/00	Arrangements of ventilation, heating, cooling, or air-	2/14	• • of liquid-freight-carrying tanks [1, 2006.01]
	conditioning (for vehicles in general B60H; ventilating for cleaning tanks B63B 57/04; for underwater vessels,	3/00	Driving of auxiliaries (transmission elements <u>per se</u> F16) [1, 2006.01]
	e.g. submarines, B63G 8/36) [1, 2006.01]	3/02	• from propulsion power plant [1, 2006.01]
2/02	• Ventilation; Air-conditioning [1, 2006.01]	3/04	 from power plant other than propulsion power
2/04	• • of living spaces [1, 2006.01]		plant [1, 2006.01]
2/06	• • of engine rooms [1, 2006.01]	4/00	Averagements of installations for treating creats
2/08	 of holds (heating or cooling of liquid-freight- carrying tanks B63J 2/14; arrangements for 	4/00	Arrangements of installations for treating waste- water or sewage (soil-water discharges
	stowing frozen goods in vessels		B63B 29/16) [3, 2006.01]
	B63B 25/26) [1, 2006.01]		
		99/00	Subject matter not provided for in other groups of this subclass [2009.01]