

## 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.....	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
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.....	35/00
BUOYS; MARKING NAVIGATION ROUTES.....	22/00, 51/00

<b>1/00 Hydrodynamic or hydrostatic features of hulls or of hydrofoils</b> (hulls peculiar to submarines B63B 3/13; keels B63B 3/38) [1, 2006.01]	1/24	• • 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]
1/02 • deriving lift mainly from water displacement (B63B 1/16 takes precedence) [1, 2006.01]	1/26	• • • having more than one hydrofoil (B63B 1/28 takes precedence) [1, 2006.01]
1/04 • • with single hull [1, 2006.01]	1/28	• • • with movable hydrofoils [1, 2006.01]
1/06 • • • Shape of fore part [1, 2006.01]	1/30	• • • • retracting or folding [1, 2006.01]
1/08 • • • Shape of aft part [1, 2006.01]	1/32	• Other means for varying the inherent hydrodynamic characteristics of hulls [1, 2006.01]
1/10 • • with multiple hulls [1, 2006.01]	1/34	• • by reducing surface friction [1, 2006.01]
1/12 • • • the hulls being interconnected rigidly [1, 2006.01]	1/36	• • • using mechanical means [1, 2006.01]
1/14 • • • the hulls being interconnected resiliently [1, 2006.01]	1/38	• • • using air bubbles or air layers [1, 2006.01]
1/16 • deriving additional lift from hydrodynamic forces [1, 2006.01]	1/40	• • by diminishing wave resistance [1, 2006.01]
1/18 • • of hydroplane type [1, 2006.01]	<b>3/00 Hulls characterised by their structure or component parts</b> (non-metallic hulls B63B 5/00; designing, building, maintaining or repairing methods B63B 71/00-B63B 83/00) [1, 2006.01]	
1/20 • • • having more than one planing surface (B63B 1/22 takes precedence) [1, 2006.01]	3/02	• Hulls assembled from prefabricated sub-units [1, 2006.01]
1/22 • • • with adjustable planing surfaces [1, 2006.01]		

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

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

## B63B

- 23/60
    - • Additional connections between boat and davit [1, 2006.01]
  - 23/62
    - Fastening or storing of boats on deck [1, 2006.01]
  - 23/64
    - • Lashings; Covers [1, 2006.01]
  - 23/66
    - • Blocks; Chocks [1, 2006.01]
  - 23/68
    - • • for stacking boats [1, 2006.01]
  - 23/70
    - Condition-responsive handling equipment, e.g. automatic release of boat from lowering tackle upon contact with water [4, 2006.01]
  - 25/00 **Load-accommodating arrangements, e.g. stowing or trimming; Vessels characterised thereby** (fishing vessel fish holds B63B 35/24; trimming otherwise than by cargo division. e.g. by use of ballast, B63B 43/06, B63B 43/08) [1, 2006.01]
    - 25/02
      - for bulk goods [1, 2006.01]
    - 25/04
      - • solid [1, 2006.01]
    - 25/06
      - • • for cereals [1, 2006.01]
    - 25/08
      - • fluid [1, 2006.01]
    - 25/10
      - • • open to ambient air [1, 2006.01]
    - 25/12
      - • • closed [1, 2006.01]
    - 25/14
      - • • • pressurised [1, 2006.01]
    - 25/16
      - • • • heat-insulated [1, 2006.01]
    - 25/18
      - Detachable decks [1, 2006.01]
    - 25/20
      - • for motor vehicles or the like [1, 2006.01]
    - 25/22
      - for palletised articles [1, 2006.01]
    - 25/24
      - Means for preventing unwanted cargo movement, e.g. dunnage [1, 2006.01]
    - 25/26
      - for frozen goods [1, 2006.01]
    - 25/28
      - for deck loads [1, 2006.01]
  - 27/00 **Arrangement of ship-based loading or unloading equipment for cargo or passengers** (self-discharging barges or lighters B63B 35/30; floating cranes B66C 23/52) [1, 3, 2006.01]
    - Note(s) [3]**

Groups B63B 27/30-B63B 27/36 take precedence over groups B63B 27/04-B63B 27/28.
    - 27/04
      - of derricks [1, 3, 2006.01]
    - 27/08
      - of winches [1, 3, 2006.01]
    - 27/10
      - of cranes [1, 3, 2006.01]
    - 27/12
      - • of gantry type [1, 3, 2006.01]
    - 27/14
      - of ramps, gangways or outboard ladders [1, 3, 2006.01]
    - 27/16
      - of lifts or hoists [1, 3, 2006.01]
    - 27/18
      - of cableways, e.g. with breeches-buoys [1, 3, 2006.01]
    - 27/22
      - of conveyors, e.g. of endless-belt or screw-type [1, 3, 6, 2006.01]
    - 27/24
      - of pipe-lines [1, 3, 2006.01]
    - 27/25
      - • for fluidised bulk material [3, 2006.01]
    - 27/26
      - of devices with throwing action [1, 3, 2006.01]
    - 27/28
      - of chutes [1, 3, 2006.01]
    - 27/30
      - for transfer at sea between ships or between ships and off-shore structures [3, 2006.01]
    - 27/32
      - • using cableways [3, 2006.01]
    - 27/34
      - • using pipe-lines [3, 2006.01]
    - 27/36
      - for floating cargo [3, 2006.01]
  - 29/00 **Accommodation for crew or passengers not otherwise provided for** [1, 2006.01]
    - 29/02
      - Cabins or other living spaces; Construction or arrangement thereof [1, 2006.01]
    - 29/04
      - • Furniture specially adapted for vessels [1, 2006.01]
  - 29/06
    - • • Fastening to floors [1, 2006.01]
  - 29/08
    - • • Storm guards on tables, e.g. fiddles [1, 2006.01]
  - 29/10
    - • • Berths; Mounting ladders therefor [1, 2006.01]
  - 29/12
    - • • Self-levelling mountings [1, 2006.01]
  - 29/14
    - • Closet or like flushing arrangements; Washing or bathing facilities peculiar to ships [1, 2006.01]
  - 29/16
    - Soil-water discharges [1, 2006.01]
  - 29/18
    - Arrangements or adaptations of swimming pools [1, 2006.01]
  - 29/20
    - Arrangements or adaptations of ladders (mounting ladders for berths B63B 29/10) [1, 2006.01]
  - 29/22
    - Galleys [2, 2006.01]
- 32/00 **Water sports boards; Accessories therefor** [2020.01]
  - Note(s) [2020.01]**

This group covers:

    - floating structures having a substantially thin body with respect to the width, usually meant to carry one user, which are specially adapted for water sports or leisure, e.g. surfboards, windsurfing boards, wakeboards, stand-up paddle [SUP] boards or water skis;
    - accessories for such structures.
  - 32/10
    - Motor-propelled water sports boards (power-driven personal watercraft B63B 34/10) [2020.01]
  - 32/20
    - Boards specially adapted for use in a prone position, e.g. wild-water sledges (towed water sledges B63B 34/54) [2020.01]
  - 32/22
    - • Bodyboards for surfing; Accessories specially adapted therefor [2020.01]
  - 32/30
    - Water skis fastened to the user's feet; Accessories specially adapted therefor [2020.01]
  - 32/40
    - Twintip boards; Wakeboards; Surfboards; Windsurfing boards; Paddle boards, e.g. SUP boards; Accessories specially adapted therefor [2020.01]
  - 32/50
    - Boards characterised by their constructional features [2020.01]
  - 32/51
    - • Inflatable boards, e.g. drop-stitch inflatable boards [2020.01]
  - 32/53
    - • Sectionalised boards, e.g. modular, dismountable or foldable boards [2020.01]
  - 32/55
    - • Multihull boards, e.g. of catamaran type [2020.01]
  - 32/56
    - • Boards convertible into vessels or other types of water sports boards, e.g. into sailboats, canoes or water-cycles [2020.01]
  - 32/57
    - Boards characterised by the material, e.g. laminated materials [2020.01]
  - 32/59
    - Boards characterised by their manufacturing process, e.g. moulded or 3D printed [2020.01]
  - 32/60
    - Board appendages, e.g. fins, hydrofoils or centre boards [2020.01]
  - 32/62
    - • characterised by the material, e.g. laminated materials; characterised by their manufacturing process [2020.01]
  - 32/64
    - • Adjustable, e.g. by adding sections, by removing sections or by changing orientation or profile [2020.01]
  - 32/66
    - • Arrangements for fixation to the board, e.g. fin boxes or foil boxes [2020.01]
  - 32/68
    - Mast foot attachments, e.g. mast foot rails [2020.01]
  - 32/70
    - Accessories not specially adapted for a particular type of board, e.g. paddings or buoyancy elements [2020.01]

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

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

**83/00 Rebuilding or retrofitting vessels, e.g. retrofitting ballast water treatment systems [2020.01]**

- 83/10 • for increasing cargo capacity [2020.01]
- 83/20 • for conversion to a different use, e.g. for converting tankers into a FPSO-FLNG units [2020.01]

- 83/30 • for improving energy efficiency, e.g. by improving hydrodynamics or by upgrading the power plant [2020.01]

- 83/40 • for reducing risks of pollution or contamination; for improving safety [2020.01]

**85/00 Dismantling or scrapping vessels [2020.01]**