

CPC COOPERATIVE PATENT CLASSIFICATION

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](#))

NOTE

In this subclass, the indexing codes [B63B 2201/00](#) - [B63B 2241/00](#) are to be used for relevant technical information concerning particular or unusual use, materials, design, methods or means.

1/00	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)	– B63B 2702/02 , B63B 2738/00 , B63B 2738/04
1/02	• Floating docks ({externally attached cofferdams and the like B63B 17/0018 ; } ship transporters with adjustable draught B63B 35/42)	WARNING this group is pending a reorganisation; also documents covered by groups B63C 7/006 are within this group
1/04	• . self docking	7/003 • {Righting capsized vessels, e.g. sailing vessels (self-righting life boats, life rafts or the like B63C 9/02)}
1/06	• . Arrangements of pumping or filling equipment for raising or lowering docks	7/006 • {Emptying the contents of sunken, stranded, or disabled vessels, e.g. by engaging the vessel, or collecting underwater buoyant, e.g. liquid or particulate, or gaseous contents escaping from sunken vessels, e.g. using funnels, or tents for recovery of escaping hydrocarbons (Cleaning or keeping clear the surface of open water in general E02B 15/00)}
1/08	• Graving docks (locks E02C 1/00)	WARNING B63C 7/006 is not complete pending a reclassification; see also groups B63C 7/00 and B63C 7/16
1/10	• Centring devices	
1/12	• Docks adapted for special vessels, e.g. submarines	
3/00	Launching or hauling-out by land-borne 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 levels E02C)	
3/02	• by longitudinal movement of vessel	7/02 • in which the lifting is done by hauling
3/04	• by sideways movement of vessel	7/04 • . using pontoons or the like
3/06	• by vertical movement of vessel, i.e. by crane	7/06 • in which lifting action is generated in or adjacent to vessels or objects
3/08	• Tracks on slipways	7/08 • . using rigid floats
3/10	• using releasing devices	7/10 • . using inflatable floats external to vessels or objects
3/12	• using cradles (vehicles in general for transporting boats or the like B60P)	7/12 • . by bringing air or floating bodies or material into vessels or objects
3/14	• using braking means	2007/125 • . . {using buoyant masses, e.g. foams, or a large plurality of small buoyant objects}
5/00	Equipment usable both on slipways and in dry docks	7/14 • using freezing for closing holes or for strengthening the vessel or the like
5/02	• Stagings; Scaffolding; Shores or struts	7/16 • Apparatus engaging vessels or objects {(B63C 7/006 takes precedence)}
2005/022	• . {Shores or struts, e.g. individual oblique support elements for stabilizing hulls in dry-docks}	7/18 • . Using nets
2005/025	• . {Stagings, or scaffolding, i.e. constructions providing temporary working platforms on slipways, in building or repair docks, or inside hulls}	7/20 • . using grabs {(cable grapnels with grabs B63C 11/50)}
2005/027	• . . {Stages, platforms, or seats suspended adjacent ship hulls on cables, chains, or the like, e.g. boatswain's chairs}	7/22 • . using electromagnets or suction devices
5/04	• . Bilge or keel blocks	7/24 • Apparatus for passing chains or the like under vessels or objects
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 searching for underwater objects B63C 11/48)	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)
	NOTE in this group the following indexing codes are used:	7/28 • Refloating stranded vessels
		7/30 • Floatable safes (safes in general E05G)

9/00 Life-saving in water (life-saving in general [A62B](#); arrangement or adaptation of signalling or lighting devices for ships, other waterborne vessels or for equipment for shipping [B63B 45/00](#); rescue equipment specially adapted for submarine personnel [B63G 8/40](#))

NOTE

- in this group the following indexing code is used:
[B63B 2729/00](#)

WARNING

this group is pending a reorganisation; also documents covered by group [B63C 9/065](#) are within this group

9/0005 . {by means of alarm devices for persons falling into the water, e.g. by signalling, by controlling the propulsion or manoeuvring means of the boat (Alarms responsive to presence of persons in a body of water in general [G08B 21/08](#))}

9/0011 . . {enabling persons in the water to control the propulsion or manoeuvring means of the boat}

2009/0017 . {characterised by making use of satellite radio beacon positioning systems, e.g. the Global Positioning System [GPS]}

2009/0023 . {Particular features common to inflatable life-saving equipment}

2009/0029 . . {Inflation devices comprising automatic activation means, e.g. for puncturing gas-generating cartridges}

2009/0035 . . . {activated by deployment of inflatable life-saving equipment}

2009/0041 . . . {activated by presence of water}

2009/0047 {using electric means}

2009/0052 {by water pressure}

2009/0058 {using means soluble in water, or weakening when wet}

2009/0064 . . . {Inflation devices using pyrotechnic means and comprising automatic activation}

2009/007 . . {Inflation devices comprising manual activation means, e.g. for puncturing gas-generating cartridges}

2009/0076 . . {Inflation devices making use of the Venturi-effect for enhancing the gas flow from the pressurized gas source by entraining ambient air, e.g. using eductor-jet pumps for decreasing inflation time}

2009/0082 . . {Bladder restrictors, i.e. mechanical means, other than peripheral or circumferential means, for restricting expansion in inflated state of inflatable bladders or chambers, e.g. welded spots or lines, or internal braces for limiting thickness}

2009/0088 . {characterised by making use of shark deterrents, e.g. electric, acoustic, mechanical or chemical means for deterring sharks}

2009/0094 . {Equipment comprising means for providing users with victuals or drinks}

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](#))

WARNING

This group is not complete pending a reclassification; for documents published before 01.01.2012, see also group [B63C 9/00](#)

9/02 . Lifeboats, life-rafts or the like, specially adapted for life-saving (floatable furniture [B63C 9/30](#); boats in general [B63B](#); inflatable vessels [B63B 7/00](#); equipment for handling lifeboats or the like [B63B 23/00](#); rafts [B63B 35/58](#))

NOTE

- in this group the following indexing code is used: [B63B 2728/00](#)

WARNING

this group is pending a reorganisation; also documents covered by group [B63C 9/065](#) are within this group

2009/023 . . {self-righting, i.e. returning into an upright position after upside down deployment, or capsizing}

2009/026 . . {Covered lifeboats, or life-rafts comprising self-levelling compartments for occupants}

9/03 . . enclosed

WARNING

This group is not complete pending a reclassification; for documents published before 01.01.2012, see also group [B63C 9/02](#)

2009/035 . . . {Enclosed lifeboats, or the like}

9/04 . . Life-rafts

WARNING

this group is pending a reorganisation; also documents covered by group [B63C 9/065](#) are within this group

2009/042 . . . {inflatable}

2009/044 . . . {covered}

2009/046 {reversible, i.e. deployable in upright or upside down positions}

2009/048 . . . {Reversible open life-rafts}

9/05 . . Shark screens, e.g. buoyant means combined with means to surround or otherwise enclose the user ([B63C 9/06](#) takes precedence)

WARNING

This group is not complete pending a reclassification; for documents published before 01.01.2012 see also group [B63C 9/00](#)

9/06 . Floatable closed containers with accommodation for one or more persons inside ([B63C 9/01](#) takes precedence)

WARNING

this group is pending a reorganisation; also documents covered by group [B63C 9/065](#) are within this group

- 9/065 . . {for one person}
- WARNING**
- [B63C 9/065](#) is not complete pending a reorganisation; see also groups [B63C 9/00](#), [B63C 9/02](#), [B63C 9/04](#) and [B63C 9/06](#)
- 9/08 . Life-buoys, e.g. rings; Life-belts, jackets, suits, or the like ({non-sinkable swimsuits, drawers or trunks [A41D 7/001](#) } ; equipment for swimming [A63B](#), e.g. swimming aids {other than life-buoys or life-belts} [A63B 31/00](#), {teaching frames for swimming, swimming boards [A63B 69/14](#)})
- 9/081 . . {having compartments comprising elements which are filled with gas by deployment, e.g. sponge-like elements}
- 9/082 . . {Annular or U-shaped life-buoys intended to be thrown to persons}
- 2009/084 . . {for animals}
- 2009/085 . . {comprising ballast means, e.g. solid ballast}
- 9/087 . . Body suits, i.e. substantially covering the user's body {Immersion suits, i.e. substantially completely covering the user} ({Professional, industrial, or sporting protective garments [A41D 13/00](#) for aquatic activities, e.g. with buoyancy aids [A41D 13/012](#)} diving suits [B63C 11/04](#), [B63C 11/10](#) {[B63C 9/081](#) takes precedence})
- 9/093 . . . using solid buoyant material
- 9/105 . . . having gas-filled compartments (connection of valves to inflatable elastic bodies [B60C 29/00](#))
- 9/1055 {inflatable}
- 9/11 . . covering the torso, e.g. harnesses ({[B63C 9/081](#) takes precedence})
- 9/115 . . . using solid buoyant material
- 9/125 . . . having gas-filled compartments (connection of valves to inflatable elastic bodies [B60C 29/00](#))
- 9/1255 {inflatable}
- 9/13 . . attachable to body member, e.g. arm, neck, head or waist ({[B63C 9/081](#) takes precedence})
- 2009/131 . . . {specially adapted for being attachable to a single arm or wrist}
- 2009/133 . . . {specially adapted for being attachable to the user's head or neck, e.g. like a cap or collar}
- 9/135 . . . using solid buoyant material
- 9/15 . . . having gas-filled compartments (connection of valves to inflatable elastic bodies [B60C 29/00](#))
- 9/155 {inflatable}
- 9/18 . . Inflatable equipment characterised by the gas-generating {or inflation} device
- WARNING**
- This group is not complete pending a reorganisation; see also group [B63C 9/24](#); this group is pending a reorganisation; also documents covered by group [B63C 9/19](#) are within this group
- 9/19 . . . Arrangements for puncturing gas-generating cartridges
- WARNING**
- This group is not complete pending a reorganisation; see also groups [B63C 9/18](#) and [B63C 9/24](#)
- 9/20 . . characterised by signalling means, e.g. lights (arrangement or adaptation of signalling or lighting devices for ships or other waterborne vessels [B63B 45/00](#))
- WARNING**
- Not complete, pending a reorganisation; see [B63C 9/21](#)
- 9/21 . {Boats, rafts, buoys or the like, characterised by signalling means, e.g. lights, reflectors ([B63C 9/08](#) takes precedence)}
- WARNING**
- Group [B63C 9/21](#) is no longer used for classification. Documents are in the process of being reorganised to [B63B 45/00](#) and subgroups, and to [B63C 9/20](#)
- 9/22 . Devices for holding or launching life-buoys, inflatable life-rafts, or other floatable life-saving equipment (equipment for handling life-boats or the like [B63B 23/00](#))
- WARNING**
- This group is pending a reorganisation; also documents covered by group [B63C 9/23](#) are within this group
- 9/23 . . Containers for inflatable life-saving equipment
- WARNING**
- This group is not complete pending a reclassification; for documents published before 01.01.2012 see also group [B63C 9/22](#)
- 9/24 . {Arrangements of inflating valves or of controls thereof (connecting inflating valves to elastic bodies [B60C 29/00](#))}
- WARNING**
- this group is pending a reorganisation; also documents covered by group [B63C 9/18](#), and subgroups are within this group
- 9/26 . Cast or life lines; Attachments thereto; Containers therefor; {Rescue nets or the like} (adaptations of aerial cableways to shipboard use [B63B 27/18](#); guns for line throwing [F41F](#); line-carrying missiles [F42B 12/68](#))
- 2009/265 . . {Nets or sheet-like devices, e.g. for lifting persons on board or for facilitating climbing on board}
- 9/28 . Adaptations of vessel parts or furnishings to life-saving purposes
- 9/30 . . Floatable furniture
- 9/32 . Equipment adapted to use on ice
- 11/00 Equipment for dwelling or working underwater; Means for searching for underwater objects** (composition of chemical substances for use in breathing apparatus [A62D 9/00](#); swimming aids or equipment [A63B 31/00](#) - [A63B 35/00](#); submarines [B63G 8/00](#))
- 2011/005 . {Underwater equipment specially adapted for use by animals, e.g. diving helmets for dogs}
- 11/02 . Divers' equipment

2011/021	. . {Diving computers, i.e. portable computers specially adapted for divers, e.g. wrist worn, watertight electronic devices for detecting or calculating scuba diving parameters}	11/202	. . . . {with forced air supply (B63C 11/14 takes precedence)}
2011/022	. . {for facilitating observation of objects in opaque liquids, e.g. in dirty, turbid or dark water}	11/205	. . . . {with air supply by suction from diver, e.g. snorkels (B63C 11/16 takes precedence)}
2011/023	. . {Accessories for diving arranged or for use outside the water}	11/207	. . . . {with hoses connected to a float}
2011/024	. . . {Tank racks, i.e. racks or mountings for storing breathing air tanks, e.g. onboard boats}	11/22	. . . carried by diver
2011/025	. . . {Transporting units specially adapted for transporting diver's equipment, such as breathing air tanks, diving suits, or the like}	11/2209	. . . . {First-stage regulators (B63C 11/2245 takes precedence)}
2011/026	. . {Diving harnesses, or the like, e.g. for carrying breathing air tanks}	2011/2218	. . . . {comprising hollow piston valves, i.e. regulator valves with hollow stems connecting valve seat end in high pressure chamber to low pressure chamber at piston end}
2011/027	. . {Shells for diving equipment, i.e. substantially rigid housings or covers, e.g. streamlined shells (diving computer with shells B63C 2011/021, shells for containers for goods or personal belongings of the diver B63C 11/02)}	11/2227	. . . . {Second-stage regulators (B63C 11/2245 takes precedence)}
2011/028	. . {Devices for underwater towing of divers or divers' sleds}	11/2236	. . . . {Functionally interdependent first/second-stage regulators (B63C 11/2245 takes precedence)}
11/04	. . Resilient suits	11/2245	. . . . {With provisions for connection to a buoyancy compensator}
2011/043	. . . {Dry suits; Equipment therefor}	2011/2254	. . . . {comprising means for prevention of ice formation, e.g. means for heating breathing gas in first or second stage regulators}
2011/046	. . . {Wet suits, or diving vests; Equipment therefor}	2011/2263	. . . . {using breathing gas stored in its liquid phase, e.g. cryogenic breathing gas}
11/06	. . . with rigid helmet	2011/2272	. . . . {Pumps specially adapted for filling breathing air into tanks for compressed air, e.g. manual pumps}
11/08	. . . Control of air pressure within suit, e.g. for controlling buoyancy; {Buoyancy compensator vests, or the like}	2011/2281	. . . . {Devices for securing breathing gas tanks to diving harnesses, or back pieces of diving jackets, e.g. straps; Tensioning devices therefor}
2011/085	. . . . {Buoyancy compensator vests}	2011/229	. . . . {comprising fluid actuated tensioners, e.g. pneumatic jack tensioners for straps}
11/10	. . Rigid suits	11/24	. . . . in closed circulation
11/12	. . Diving masks {(swimming helmets, swimming goggles A63B 33/00)}	11/26	. . Communication means, {e.g. means for signalling the presence of divers} (electric communication in general H04)
2011/121	. . . {comprising integrated optical signalling means or displays for data or images}	11/28	. . Heating, e.g. of divers' suits, of breathing air
2011/123	. . . {comprising integrated headlights, spotlights, or the like}	11/30	. . Ballast {(weights worn on user's body for exercising A63B 21/065)}
2011/125	. . . {comprising nose-clips, i.e. pinching devices for closing the user's nose, other than rubber blisters integral with flexible mask elements}	2011/303	. . . {integral with, or directly attached to buoyancy compensator vests or to spiders of diver's backpacks combined therewith}
2011/126	. . . {Diving masks comprising periscopes, mirrors, or the like; Periscopes, mirrors, or the like specially adapted for use with diving masks}	2011/306	. . . {Attachment means for quick release of ballast}
2011/128	. . . {Straps, or the like for fastening diving masks; Accessories therefor, e.g. buckles}	11/32	. . Decompression arrangements; Exercise equipment
11/14	. . . with forced air supply	11/325	. . . {chambers used for it}
11/16	. . . with air supply by suction from diver, e.g. snorkels	11/34	. . Diving chambers {or underwater vessels, e.g. unmanned,} with mechanical link, e.g. cable, to a base (manipulators B25J ; {externally attached cofferdams and the like B63B 17/0018 ; } diving chambers without mechanical link to a base B63G 8/00 ; caissons adapted to laying foundations E02D 23/00 - E02D 27/00)
2011/165	. . . . {comprising two or more air ducts leading from the mouthpiece to the air inlet or outlet opening}	11/36	. . of closed type
11/18	. . Air supply (for diving masks B63C 11/14, B63C 11/16 ; respiratory apparatus in general A62B)	11/38	. . . with entrance above water surface
2011/182	. . . {comprising devices for discharge of exhalation air into ambient water, e.g. ducts to back of head}	11/40	. . . adapted to specific work
11/184	. . . {Artificial gills}		
11/186	. . . {Mouthpieces}		
2011/188	. . . {comprising warning means for breathing gas run-out}		
11/20	. . . from water surface		

- 11/42 . . . with independent propulsion or direction control {(underwater vessels adapted for special purposes [B63G 8/001](#))}
- WARNING**
 this group is pending a reorganisation; also documents covered by group [B63G 8/001](#) are within this group
- 11/44 . . of open type, e.g. diving-bells
- 11/46 . Divers' sleds or like craft, i.e. craft on which man in diving-suit rides {(devices fixed to the body of a swimmer, e.g. diver, or held in his hands, and propelling the swimmer by muscle power or by a motor [A63B 35/00](#))}
- 11/48 . Means for searching for underwater objects (means for indicating the location of sunken objects [B63C 7/26](#); locating by use of the reflection or reradiation of radio or other waves [G01S](#); {mountings of acoustic transducers in underwater equipment [G10K 11/006](#)})
- 11/49 . . Floating structures with underwater viewing devices, e.g. with windows; {Arrangements on floating structures of underwater viewing devices, e.g. on boats (arrangement of visual equipment on submarines [B63G 8/38](#))}
- 11/50 . . using grapnels
- 11/52 . Tools specially adapted for working underwater, not otherwise provided for
- 13/00 Equipment forming part of or attachable to vessels facilitating transport over land** (amphibious craft, land vehicles convertible for use on water [B60F](#); land vehicles for carrying boats [B60P](#); {hand carts for transporting boats [B62B](#); } harnesses attachable to vessels for personal carrying [A45F](#))
- 15/00 Storing of vessels on land otherwise than by dry-docking**