

# 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	<b>Dry-docking of vessels or flying-boats</b> (storing of vessels on land otherwise than by dry-docking <a href="#">B63C 15/00</a> ; mooring of vessels <a href="#">B63B 21/00</a> ; hydraulic-engineering aspects <a href="#">E02B</a> )	– <a href="#">B63B 2702/02</a> , <a href="#">B63B 2738/00</a> , <a href="#">B63B 2738/04</a>
1/02	• Floating docks ({externally attached cofferdams and the like <a href="#">B63B 17/0018</a> ; } ship transporters with adjustable draught <a href="#">B63B 35/42</a> )	<b>WARNING</b> this group is pending a reorganisation; also documents covered by groups <a href="#">B63C 7/006</a> are within this group
1/04	• . self docking	7/003
1/06	• . Arrangements of pumping or filling equipment for raising or lowering docks	7/006
1/08	• Graving docks ( <a href="#">locks E02C 1/00</a> )	
1/10	• Centring devices	
1/12	• Docks adapted for special vessels, e.g. submarines	
3/00	<b>Launching or hauling-out by land-borne slipways; Slipways</b> (ship-borne guides for handling lifeboats or the like <a href="#">B63B 23/30</a> ; cranes winches, or the like <a href="#">B66</a> ; ship lifting for adapting to different water levels <a href="#">E02C</a> )	• {Righting capsized vessels, e.g. sailing vessels (self-righting life boats, life rafts or the like <a href="#">B63C 9/02</a> )} • {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 <a href="#">E02B 15/00</a> )}
3/02	• by longitudinal movement of vessel	<b>WARNING</b> <a href="#">B63C 7/006</a> is not complete pending a reclassification; see also groups <a href="#">B63C 7/00</a> and <a href="#">B63C 7/16</a>
3/04	• by sideways movement of vessel	
3/06	• by vertical movement of vessel, i.e. by crane	
3/08	• Tracks on slipways	7/02
3/10	• using releasing devices	7/04
3/12	• using cradles ( <a href="#">vehicles in general for transporting boats or the like B60P</a> )	7/06
3/14	• using braking means	7/08
5/00	<b>Equipment usable both on slipways and in dry docks</b>	7/10
5/02	• Stagings; Scaffolding; Shores or struts	7/12
2005/022	• . {Shores or struts, e.g. individual oblique support elements for stabilizing hulls in dry-docks}	2007/125
2005/025	• . {Stagings, or scaffolding, i.e. constructions providing temporary working platforms on slipways, in building or repair docks, or inside hulls}	7/14
2005/027	• . . {Stages, platforms, or seats suspended adjacent ship hulls on cables, chains, or the like, e.g. boatswain's chairs}	7/16
5/04	• . Bilge or keel blocks	7/18
7/00	<b>Salvaging of disabled, stranded, or sunken vessels; Salvaging of vessel parts or furnishings, e.g. of safes; salvaging of other underwater objects</b> (means for searching for underwater objects <a href="#">B63C 11/48</a> )	7/20
	<b>NOTE</b> in this group the following indexing codes are used:	7/22
		7/24
		7/26
		7/28
		7/30

**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
- 2009/035 . . . {Enclosed lifeboats, or the like}
- 9/04 . . Life-rafts

**WARNING**

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

**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}
- 2011/022 . . {for facilitating observation of objects in opaque liquids, e.g. in dirty, turbid or dark water}
- 2011/023 . . {Accessories for diving arranged or for use outside the water}
- 2011/024 . . . {Tank racks, i.e. racks or mountings for storing breathing air tanks, e.g. onboard boats}
- 2011/025 . . . {Transporting units specially adapted for transporting diver's equipment, such as breathing air tanks, diving suits, or the like}
- 2011/026 . . {Diving harnesses, or the like, e.g. for carrying breathing air tanks}
- 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](#))}
- 2011/028 . . {Devices for underwater towing of divers or divers' sleds}
  - 11/04 . . Resilient suits
- 2011/043 . . . {Dry suits; Equipment therefor}
- 2011/046 . . . {Wet suits, or diving vests; Equipment therefor}
  - 11/06 . . . with rigid helmet
  - 11/08 . . . Control of air pressure within suit, e.g. for controlling buoyancy; {Buoyancy compensator vests, or the like}
- 2011/085 . . . . {Buoyancy compensator vests}
  - 11/10 . . Rigid suits
  - 11/12 . . Diving masks {(swimming helmets, swimming goggles [A63B 33/00](#))}
- 2011/121 . . . {comprising integrated optical signalling means or displays for data or images}
- 2011/123 . . . {comprising integrated headlights, spotlights, or the like}
- 2011/125 . . . {comprising nose-clips, i.e. pinching devices for closing the user's nose, other than rubber blisters integral with flexible mask elements}
- 2011/126 . . . {Diving masks comprising periscopes, mirrors, or the like; Periscopes, mirrors, or the like specially adapted for use with diving masks}
- 2011/128 . . . {Straps, or the like for fastening diving masks; Accessories therefor, e.g. buckles}
  - 11/14 . . . with forced air supply
  - 11/16 . . . with air supply by suction from diver, e.g. snorkels
- 2011/165 . . . . {comprising two or more air ducts leading from the mouthpiece to the air inlet or outlet opening}
  - 11/18 . . Air supply (for diving masks [B63C 11/14](#), [B63C 11/16](#); respiratory apparatus in general [A62B](#))
- 2011/182 . . . {comprising devices for discharge of exhalation air into ambient water, e.g. ducts to back of head}
  - 11/184 . . . {Artificial gills}
  - 11/186 . . . {Mouthpieces}
- 2011/188 . . . {comprising warning means for breathing gas run-out}
  - 11/20 . . . from water surface
- 11/202 . . . . {with forced air supply ([B63C 11/14](#) takes precedence)}
- 11/205 . . . . {with air supply by suction from diver, e.g. snorkels ([B63C 11/16](#) takes precedence)}
- 11/207 . . . . . {with hoses connected to a float}
- 11/22 . . . carried by diver
- 11/2209 . . . . {First-stage regulators ([B63C 11/2245](#) takes precedence)}
- 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}
- 11/2227 . . . . {Second-stage regulators ([B63C 11/2245](#) takes precedence)}
- 11/2236 . . . . {Functionally interdependent first/second-stage regulators ([B63C 11/2245](#) takes precedence)}
- 11/2245 . . . . {With provisions for connection to a buoyancy compensator}
- 2011/2254 . . . . {comprising means for prevention of ice formation, e.g. means for heating breathing gas in first or second stage regulators}
- 2011/2263 . . . . {using breathing gas stored in its liquid phase, e.g. cryogenic breathing gas}
- 2011/2272 . . . . {Pumps specially adapted for filling breathing air into tanks for compressed air, e.g. manual pumps}
- 2011/2281 . . . . {Devices for securing breathing gas tanks to diving harnesses, or back pieces of diving jackets, e.g. straps; Tensioning devices therefor}
- 2011/229 . . . . . {comprising fluid actuated tensioners, e.g. pneumatic jack tensioners for straps}
  - 11/24 . . . . . in closed circulation
  - 11/26 . . Communication means, {e.g. means for signalling the presence of divers} ([electric communication in general H04](#))
  - 11/28 . . Heating, e.g. of divers' suits, of breathing air
  - 11/30 . . Ballast {(weights worn on user's body for exercising [A63B 21/065](#))}
- 2011/303 . . . {integral with, or directly attached to buoyancy compensator vests or to spiders of diver's backpacks combined therewith}
- 2011/306 . . . {Attachment means for quick release of ballast}
  - 11/32 . . Decompression arrangements; Exercise equipment
    - 11/325 . . . {chambers used for it}
  - 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](#))
    - 11/36 . . of closed type
    - 11/38 . . . with entrance above water surface
    - 11/40 . . . adapted to specific work
    - 11/42 . . . with independent propulsion or direction control {(underwater vessels adapted for special purposes [B63G 8/001](#))}

**WARNING**

B63C 11/42  
(continued)

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**