

CPC**COOPERATIVE PATENT CLASSIFICATION****B63G****OFFENSIVE OR DEFENSIVE ARRANGEMENTS ON VESSELS; MINE-LAYING; MINE-SWEEPING; SUBMARINES; AIRCRAFT CARRIERS**(means of attack or defence in general e.g. turrets [F41H](#))**NOTE**

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

B63G 1/00

Arrangements of guns or missile launchers; Vessels characterised thereby (submarines [B63G 8/00](#); guns, missile launchers [F41](#))

B63G 3/00

Arrangements of ammunition stores or handlers (specially for submarines [B63G 8/00](#); feeding ammunition missiles or projectiles to guns in general [F41A 9/00](#)); **Vessels characterised thereby** (general cargo aspects [B63B](#))

B63G 3/02

- . for torpedoes

B63G 3/04

- . for missiles

B63G 3/06

- . for mines or depth charges

B63G 5/00

Vessels characterised by adaptation to torpedo launching (submarines [B63G 8/00](#); torpedo launching per se [F41F](#))

B63G 6/00

Laying of mines or depth charges; Vessels characterised thereby (arrangements on submarines for mine laying [B63G 8/33](#))

B63G 7/00

Mine-sweeping; Vessels characterised thereby

B63G 2007/005

- . { Unmanned autonomously operating mine sweeping vessels }

B63G 7/02

- . Mine-sweeping means, Means for destroying mines

B63G 7/04

- .. by means of cables

B63G 7/06

- .. of electromagnetic type

B63G 2007/065

- ... { by making use of superconductivity }

B63G 7/08

- .. of acoustic type

B63G 8/00

Underwater vessels, e.g. submarines; { Equipment specially adapted therefor } (submarine hulls [B63B 3/13](#); diving chambers with mechanical link, e.g. cable, to a base [B63C 11/34](#); divers' sleds [B63C 11/46](#); torpedoes [F42B 19/00](#))

- B63G 8/001 . { Underwater vessels adapted for special purposes, e.g. unmanned, underwater vessels; Equipment specially adapted therefor, e.g. docking stations (self-propelled or direction controlled diving chambers with mechanical link to a base [B63C 11/42](#))}

WARNING

[B63G 8/001](#) is not complete pending a reclassification; see also group [B63C 11/42](#)

- B63G 2008/002 .. { unmanned }
- B63G 2008/004 ... { autonomously operating }
- B63G 2008/005 ... { remotely controlled }
- B63G 2008/007 { by means of a physical link to a base, e.g. wire, cable or umbilical }
- B63G 2008/008 ... { Docking stations for unmanned underwater vessels, or the like }
- B63G 8/04 . Superstructure
- B63G 8/06 .. Conning-towers
- B63G 8/08 . Propulsion ({ schnorkels [B63G 8/36](#); marine propulsion or steering in general [B63H](#); } nuclear propulsion [B63H 21/18](#); propulsion power plants or units per se { [F01](#) to [F04](#) }; submerged exhausting apparatus [F01N 13/12](#))
- B63G 8/10 .. using steam plant
- B63G 2008/105 ... { using Walter-type plants, i.e. power plants in which steam is generated in a reactor vessel by reaction between a fuel and an oxidant, e.g. hydrogen peroxide }
- B63G 8/12 .. using internal-combustion engines
- B63G 8/14 . Control of attitude or depth (of torpedoes [F42B 19/00](#))
- B63G 8/16 .. by direct use of propellers or jets
- B63G 8/18 .. by hydrofoils
- B63G 8/20 .. Steering equipment ([B63G 8/16](#), [B63G 8/18](#) take precedence; steering of vessels in general [B63H 25/00](#))
- B63G 8/22 .. Adjustment of buoyancy by water ballasting; Emptying equipment for ballast tanks ({ conduits for emptying or ballasting on vessels in general [B63B 13/00](#); } stabilising vessels using ballast tanks [B63B 43/06](#))
- B63G 8/24 .. Automatic depth adjustment; Safety equipment for increasing buoyancy, e.g. detachable ballast, floating bodies
- B63G 8/26 .. Trimming equipment
- B63G 8/28 . Arrangement of offensive or defensive equipment
- B63G 8/30 .. of artillery or missile launching means
- B63G 8/32 .. of torpedo-launching means (torpedo-launching means per se [F41F 3/00](#)); of torpedo stores or handlers
- B63G 8/33 .. of mine-laying means (mine laying vessels other than submarines [B63G 6/00](#))
- B63G 8/34 .. Camouflage (for other vessels [B63G 13/02](#); in general [F41H 3/00](#))

- B63G 8/36
 - . Adaptations of ventilation, [e.g. schnorkels,] cooling, heating, or air-conditioning (reconditioning air in sealed chambers [A62B 11/00](#); for vessels in general [B63J 2/00](#); air-conditioning in general [F24F](#))
- B63G 8/38
 - . { Arrangement of visual or electronic watch equipment, e.g. of periscopes, of radar } (periscopes, optical aiming or sighting devices per se [G02B 23/00](#))
- B63G 8/39
 - . Arrangement of sonic watch equipment, e.g. low-frequency, sonar
- B63G 8/40
 - . Rescue equipment for personnel (life-saving in water, not specially adapted for submarine personnel [B63C](#))
- B63G 2008/403
 - .. { Docking rescue units }
- B63G 2008/406
 - .. { Submarine escape suits }
- B63G 8/41
 - .. Capsules, chambers, water-tight boats or the like, detachable from the submarine
- B63G 8/42
 - . Towed underwater vessels
- B63G 2008/425
 - .. { for transporting cargo, e.g. submersible barges for fluid cargo }
- B63G 9/00**

Other offensive or defensive arrangements on vessels against submarines, topedoes, or mines
- B63G 2009/005
 - . { of sonic watch equipment, e.g. low-frequency or sonar }
- B63G 9/02
 - . Means for protecting vessels against torpedo attack (armoured hulls [B63B 3/10](#))
- B63G 9/04
 - .. Nets or the like (net barriers for harbour defence [F41H 11/00](#))
- B63G 9/06
 - . for degaussing vessels (demagnetising in general [H01F 13/00](#))
- B63G 11/00**

Aircraft carriers (other vessels or floating structures for aircraft [B63B 35/50](#); launching or arresting gear for aircraft [B64F](#))
- B63G 13/00**

Other offensive or defensive arrangements on vessels; Vessels characterised thereby
- B63G 13/02
 - . Camouflage (for submarines [B63G 8/34](#))
- B63G 2013/022
 - .. { using means for reducing noise emission into air or water }
- B63G 2013/025
 - .. { using means for reducing radiation emission of electromagnetic waves, e.g. infrared, into air or water }
- B63G 2013/027
 - .. { using stealth design, i.e. superstructures, hulls, or other vessel's components shaped or constructed for minimizing reflection of radar or sonar beams, or the like }