

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 7/02

. Mine-sweeping means, Means for destroying mines

B63G 7/04

. . by means of cables

B63G 7/06

. . of electromagnetic type

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 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 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 8/41 . . Capsules, chambers, water-tight boats or the like, detachable from the submarine
- B63G 8/42 . Towed underwater vessels
- B63G 9/00 Other offensive or defensive arrangements on vessels against submarines,**

torpedoes, or mines

- 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 2007/00 Mine-sweeping; Vessels characterised thereby**
- B63G 2007/005 . Unmanned autonomously operating mine sweeping vessels
- B63G 2007/02 . Mine-sweeping means, Means for destroying mines
- B63G 2007/06 . . of electromagnetic type
- B63G 2007/065 . . . by making use of superconductivity
- B63G 2008/00 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 2008/001 . { [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 2008/08 . 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 2008/10 . . 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

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| B63G 2008/40 | . 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 2008/42 | . Towed underwater vessels |
| B63G 2008/425 | . . for transporting cargo, e.g. submersible barges for fluid cargo |
| B63G 2009/00 | 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 2013/00 | Other offensive or defensive arrangements on vessels; Vessels characterised thereby |
| B63G 2013/02 | . 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 |