

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