

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
- B63G 2008/425
 - Towed underwater vessels
 - • {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}