

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

TRANSPORTING

B63 SHIPS OR OTHER WATERBORNE VESSELS; RELATED EQUIPMENT

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](#) - [B63B 2241/00](#) are to be used for relevant technical information concerning particular or unusual use, materials, design, methods or means.

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

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|----------|--|----------|---|
| 1/00 | Arrangements of guns or missile launchers; Vessels characterised thereby (submarines B63G 8/00 ; guns, missile launchers F41) | 2008/002 | . . . {unmanned} |
| | | 2008/004 | . . . {autonomously operating} |
| | | 2008/005 | . . . {remotely controlled} |
| 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) | 2008/007 | {by means of a physical link to a base, e.g. wire, cable or umbilical} |
| | | 2008/008 | . . . {Docking stations for unmanned underwater vessels, or the like} |
| 3/02 | . for torpedoes | 8/04 | . Superstructure |
| 3/04 | . for missiles | 8/06 | . . Conning-towers |
| 3/06 | . for mines or depth charges | 8/08 | . Propulsion ({schnorkels B63G 8/36 ; nuclear propulsion B63H 21/18 ; submerged exhausting apparatus F01N 13/12) |
| 5/00 | Vessels characterised by adaptation to torpedo launching (submarines B63G 8/00 ; torpedo launching per se F41F) | 8/10 | . . using steam plant |
| | | 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} |
| 6/00 | Laying of mines or depth charges; Vessels characterised thereby (arrangements on submarines for mine laying B63G 8/33) | 8/12 | . . using internal-combustion engines |
| | | 8/14 | . Control of attitude or depth (of torpedoes F42B 19/00) |
| 7/00 | Mine-sweeping; Vessels characterised thereby | 8/16 | . . by direct use of propellers or jets |
| 2007/005 | . {Unmanned autonomously operating mine sweeping vessels} | 8/18 | . . by hydrofoils |
| 7/02 | . Mine-sweeping means, Means for destroying mines | 8/20 | . . Steering equipment (B63G 8/16 , B63G 8/18 take precedence; steering of vessels in general B63H 25/00) |
| 7/04 | . . by means of cables | | |
| 7/06 | . . of electromagnetic type | | |
| 2007/065 | . . . {by making use of superconductivity} | 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) |
| 7/08 | . . of acoustic type | | |
| 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) | 8/24 | . . Automatic depth adjustment; Safety equipment for increasing buoyancy, e.g. detachable ballast, floating bodies |
| 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)} | 8/26 | . . Trimming equipment |
| | | 8/28 | . Arrangement of offensive or defensive equipment |
| | | 8/30 | . . of artillery or missile launching means |
| | | 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](#))
- 8/34 . . Camouflage ([for other vessels B63G 13/02](#); in general [F41H 3/00](#))
- 8/36 . Adaptations of ventilation, {e.g. [schnorkels](#),} cooling, heating, or air-conditioning ([reconditioning air in sealed chambers A62B 11/00](#))
- 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](#))}
- 8/39 . Arrangements of sonic watch equipment, e.g. low-frequency, sonar
- 8/40 . Rescue equipment for personnel ([life-saving in water, not specially adapted for submarine personnel B63C](#))
- 2008/403 . . {[Docking rescue units](#)}
- 2008/406 . . {[Submarine escape suits](#)}
- 8/41 . . Capsules, chambers, water-tight boats or the like, detachable from the submarine
- 8/42 . Towed underwater vessels
- 2008/425 . . {[for transporting cargo, e.g. submersible barges for fluid cargo](#)}

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

- 11/00 Aircraft carriers** ([other vessels or floating structures for aircraft B63B 35/50](#); [launching or arresting gear for aircraft B64F](#))

- 13/00 Other offensive or defensive arrangements on vessels; Vessels characterised thereby**
- 13/02 . Camouflage ([for submarines B63G 8/34](#))
- 2013/022 . . {[using means for reducing noise emission into air or water](#)}
- 2013/025 . . {[using means for reducing radiation emission of electromagnetic waves, e.g. infrared, into air or water](#)}
- 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](#)}