

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.

WARNINGS

1. 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.
2. Groups [B63G 1/00](#) - [B63G 2013/027](#) are incomplete pending reclassification of documents from groups [B63B 2701/00](#) - [B63B 2770/00](#).

All groups listed in this Warning should be considered in order to perform a complete search.

1/00	Arrangements of guns or missile launchers; Vessels characterised thereby (submarines B63G 8/00 ; guns, missile launchers F41)	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)}
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)	2008/002	. . {unmanned}
3/02	. for torpedoes	2008/004	. . . {autonomously operating}
3/04	. for missiles	2008/005	. . . {remotely controlled}
3/06	. for mines or depth charges	2008/007 {by means of a physical link to a base, e.g. wire, cable or umbilical}
5/00	Vessels characterised by adaptation to torpedo launching (submarines B63G 8/00 ; torpedo launching per se F41F)	2008/008	. . . {Docking stations for unmanned underwater vessels, or the like}
6/00	Laying of mines or depth charges; Vessels characterised thereby (arrangements on submarines for mine laying B63G 8/33)	8/04	. Superstructure
7/00	Mine-sweeping; Vessels characterised thereby	8/06	. . Conning-towers
2007/005	. {Unmanned autonomously operating mine sweeping vessels}	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 - F04 }; submerged exhausting apparatus F01N 13/12)
7/02	. Mine-sweeping means, Means for destroying mines	8/10	. . using steam plant
7/04	. . by means of cables	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}
7/06	. . of electromagnetic type	8/12	. . using internal-combustion engines
2007/065	. . . {by making use of superconductivity}	8/14	. Control of attitude or depth (of torpedoes F42B 19/00)
7/08	. . of acoustic type	8/16	. . by direct use of propellers or jets
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)	8/18	. . by hydrofoils
		8/20	. Steering equipment (B63G 8/16 , B63G 8/18 take precedence; steering of vessels in general B63H 25/00)

- 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](#))
- 8/24 . . Automatic depth adjustment; Safety equipment for increasing buoyancy, e.g. detachable ballast, floating bodies
- 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
- 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](#); for vessels in general [B63J 2/00](#); air-conditioning in general [F24F](#))
- 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](#)}