

Title (en)
Submarine

Title (de)
Unterseeboot

Title (fr)
Submersible

Publication
EP 2657126 A3 20131218 (DE)

Application
EP 13159757 A 20130318

Priority
DE 102012206709 A 20120424

Abstract (en)
[origin: EP2657126A2] The submarine has an ejection tube (2), in which a closed expansion body (12) is arranged in the ejection direction in the front of an object that is mounted in the ejection tube. The ejection tube is a weapon tube for ejecting a weapon. The expansion body is partially formed from a flexible material. The expansion body is a bellows. The expansion body has a rigidly formed section which forms a contact area with the object mounting in the ejection tube.

IPC 8 full level
B63G 8/32 (2006.01)

CPC (source: EP)
B63G 8/32 (2013.01); **F41F 3/10** (2013.01)

Citation (search report)

- [I] EP 2107331 A1 20091007 - WHITEHEAD ALENIA SISTEMI SUBACQUEI SPA [IT]
- [XYI] US 1985184 A 19341218 - EMILIEN METHLIN NICOLAS
- [Y] WO 9001668 A1 19900222 - HUGHES AIRCRAFT CO [US]
- [A] EP 2124012 A2 20091125 - HOWALDTSWERKE DEUTSCHE WERFT [DE]
- [A] GB 2379416 A 20030312 - STRACHAN & HENSHAW LTD [GB]
- [A] EP 2343491 A1 20110713 - DCNS [FR]
- [A] WO 2007049015 A2 20070503 - STRACHAN & HENSHAW LTD [GB], et al
- [A] US 5410978 A 19950502 - WACLAWIK RONALD E [US], et al
- [A] US 6382123 B1 20020507 - GRONDIN CLAUDE [FR]
- [A] US 6595098 B1 20030722 - WRAY MICHAEL D [US]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2657126 A2 20131030; EP 2657126 A3 20131218; EP 2657126 B1 20161102; DE 102012206709 A1 20131024;
DE 102012206709 B4 20140213; ES 2614030 T3 20170529

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EP 13159757 A 20130318; DE 102012206709 A 20120424; ES 13159757 T 20130318