

Title (en)  
Submarine

Title (de)  
Unterseeboot

Title (fr)  
Submersible

Publication  
**EP 2345578 B1 20170927 (DE)**

Application  
**EP 10014939 A 20101124**

Priority  
DE 102010004789 A 20100116

Abstract (en)  
[origin: EP2345578A2] The boat has a vertically oriented lock (8) partially penetrating to a pressure hull (2), where the lock is formed with an upper covering-side lock opening. The lock includes a lock pressure hull (10) and an operating-relative self-supporting insert that is integrated in the lock pressure hull, where the insert is selected from various inserts. The insert is provided with a shock-resistant storing unit that is stored in the lock pressure hull, and provided with a connection unit for connecting to electrical and/or hydraulic, water-bearing, gas-conveying line system.

IPC 8 full level  
**B63G 8/40** (2006.01)

CPC (source: EP KR)  
**B63G 8/00** (2013.01 - KR); **B63G 8/04** (2013.01 - KR); **B63G 8/40** (2013.01 - EP)

Cited by  
WO2018046550A1

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

DOCDB simple family (publication)  
**EP 2345578 A2 20110720; EP 2345578 A3 20150805; EP 2345578 B1 20170927**; DE 102010004789 A1 20110721; ES 2653547 T3 20180207; KR 101244888 B1 20130318; KR 20110084372 A 20110722; NO 2345578 T3 20180224; PL 2345578 T3 20180228

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**EP 10014939 A 20101124**; DE 102010004789 A 20100116; ES 10014939 T 20101124; KR 20110003029 A 20110112; NO 10014939 A 20101124; PL 10014939 T 20101124