

Title (en)  
Submarine with a tow-line

Title (de)  
Unterseeboot mit einer Schleppleine

Title (fr)  
Sous-marin avec une ligne de remorquage

Publication  
**EP 1783047 B1 20100331 (DE)**

Application  
**EP 06019619 A 20060920**

Priority  
DE 102005052109 A 20051102

Abstract (en)  
[origin: EP1783047A2] The submarine (4) has a towing line retained in a bow area (7) of a hull, where the towing line is connected with an auxiliary rope (1). The auxiliary rope is guided from the bow area up to a sail (3) in or at an exterior shell (6), where the auxiliary rope is designed as a rope such as cable rope that is thinner than the towing line. The auxiliary rope is arranged in a groove (5) in the shell, where the groove is closed by a sealant.

IPC 8 full level  
**B63G 8/40** (2006.01); **B63G 8/00** (2006.01); **B63G 8/42** (2006.01)

CPC (source: EP KR)  
**B63B 21/04** (2013.01 - KR); **B63B 21/66** (2013.01 - EP); **B63G 8/00** (2013.01 - KR); **B63G 8/42** (2013.01 - EP)

Cited by  
WO2014086657A1; FR3030437A1; FR2998864A1; FR2998863A1; WO2014086820A3

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DOCDB simple family (publication)  
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