

Title (en)  
Submarine

Title (de)  
Unterseeboot

Title (fr)  
Submersible

Publication  
**EP 2106998 A1 20091007 (DE)**

Application  
**EP 09002562 A 20090224**

Priority  
DE 102008017460 A 20080405

Abstract (en)  
The submarine has a pressure body (2) and a propeller driven by an electrical drive motor (4). The drive motor is arranged outside interior of the pressure body, and is formed as an external rotor or a synchronous motor. The drive motor has a stator and a rotor (6), which forms a part of the propeller. The stator is integrated into a wall of the pressure body. The propeller forms a rudder device and comprises propeller blades (10), where a setting angle of the blades is changeable. An outer side of the rotor aligns with an outer side of the body.

Abstract (de)  
Das Unterseeboot weist einen Druckkörper (2) auf und ist mit einem von einem elektrischen Antriebsmotor (4) angetriebenen Propeller ausgestattet. Der Antriebsmotor (4) ist außerhalb des Druckkörperinneren angeordnet.

IPC 8 full level  
**B63G 8/08** (2006.01); **B63H 21/17** (2006.01)

CPC (source: EP)  
**B63G 8/08** (2013.01); **B63H 21/17** (2013.01)

Citation (applicant)  
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• DE 1895486 U 19640625 - HAGENBURG OTTO HEINRICH GRAF [DE]  
• US 5607329 A 19970304 - CHO CHAHEE P [US], et al  
• US 3101066 A 19630820 - HASELTON FREDERICK R  
• US 594177 A 18971123

Citation (search report)  
• [X] US 5607329 A 19970304 - CHO CHAHEE P [US], et al  
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Designated contracting state (EPC)  
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 SE SI SK TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**EP 2106998 A1 20091007; EP 2106998 B1 20130522**; DE 102008017460 A1 20091015; ES 2423184 T3 20130918; PT 2106998 E 20130826

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**EP 09002562 A 20090224**; DE 102008017460 A 20080405; ES 09002562 T 20090224; PT 09002562 T 20090224