

Title (en)
Submarine

Title (de)
Unterseeboot

Title (fr)
Submersible

Publication
EP 2130759 A3 20111102 (DE)

Application
EP 09007262 A 20090530

Priority
DE 102008027351 A 20080607

Abstract (en)
[origin: EP2130759A2] The boat has a pressure body, and a capstan arranged outside the pressure body. A drive motor (18) i.e. radial piston motor, is arranged outside the pressure body for driving the capstan. The drive motor forms a direct drive of the capstan. The capstan has a brake device arranged outside the pressure body. The brake device is designed as a band brake controlled by a hydraulic cylinder (40), which is designed in a spring pre-stressed manner. A movement sensor is arranged at a motor shaft of the drive motor.

IPC 8 full level
B63B 21/16 (2006.01); **B63B 21/22** (2006.01); **B63G 8/00** (2006.01)

CPC (source: EP KR)
B63B 21/16 (2013.01 - EP KR); **B63B 21/227** (2013.01 - EP); **B63B 21/66** (2013.01 - KR); **B63G 8/00** (2013.01 - EP KR)

Citation (search report)

- [A] DE 10349591 A1 20050602 - HOWALDTSWERKE DEUTSCHE WERFT [DE]
- [A] US 3125975 A 19640324
- [A] DE 2146586 A1 19730322 - REXROTH GMBH G L
- [A] US 4223871 A 19800923 - BRAITHWAITE JOHN C

Cited by
CN103507920A; CN110950258A; EP4242094A3; US11008072B2; WO2019166674A1

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 2130759 A2 20091209; EP 2130759 A3 20111102; EP 2130759 B1 20120725; DE 102008027351 A1 20091210; ES 2390806 T3 20121116; KR 101181287 B1 20120911; KR 20090127225 A 20091210; PT 2130759 E 20120927

DOCDB simple family (application)
EP 09007262 A 20090530; DE 102008027351 A 20080607; ES 09007262 T 20090530; KR 20090049152 A 20090603; PT 09007262 T 20090530