

Title (en)
ROTATIONALLY RETRACTABLE PROPELLER

Title (de)
DREHEINZIEHBARER PROPELLER

Title (fr)
PROPULSEUR RETRACTABLE PAR ROTATION

Publication
EP 1611007 B1 20070815 (FR)

Application
EP 04742351 A 20040325

Priority
• FR 2004000743 W 20040325
• FR 0304375 A 20030409

Abstract (en)
[origin: US2006060127A1] The present invention relates to a retractable thruster for a surface or submersible vessel, the thruster comprising a propulsion assembly comprising a rigid structure secured to a cylindrical turbine, said rigid structure containing or being suitable for containing a motor, said motor being suitable for rotating at least one propeller inside said turbine via at least one rotary shaft between said motor and said propeller, and preferably further comprising a plate for closing the hull placed beneath said turbine and secured thereto, said propulsion assembly being displaceable by displacement means between a retracted position in which it is at rest inside the hull and a deployed position for providing propulsion in which the propeller is immersed beneath the hull. According to the present invention, said displacement means enable said propulsion assembly to be moved between said retracted and deployed positions by said propulsion assembly performing uniform circular movement about an axis of rotation situated substantially at the level of said hull or beneath said hull.

IPC 8 full level
B63H 5/125 (2006.01); **B63H 20/04** (2006.01)

CPC (source: EP US)
B63H 25/42 (2013.01 - EP US); **B63H 2025/425** (2013.01 - EP US)

Cited by
USD1023888S; US11939036B2; US11801926B2; US11873071B2; US11591057B2; US11866144B2; USD983838S; USD1006828S;
US11603179B2; USD1023889S; US11572146B2; US11932369B1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2006060127 A1 20060323; US 7146921 B2 20061212; AT E370062 T1 20070915; DE 602004008244 D1 20070927;
DE 602004008244 T2 20080508; DK 1611007 T3 20080107; EP 1611007 A1 20060104; EP 1611007 B1 20070815; ES 2290731 T3 20080216;
FR 2853620 A1 20041015; FR 2853620 B1 20060505; WO 2004092007 A1 20041028; WO 2004092007 A9 20041229

DOCDB simple family (application)
US 50702205 A 20050818; AT 04742351 T 20040325; DE 602004008244 T 20040325; DK 04742351 T 20040325; EP 04742351 A 20040325;
ES 04742351 T 20040325; FR 0304375 A 20030409; FR 2004000743 W 20040325