

Title (en)

Underwater propeller having a shrouding ring attached to the blades and which ring contains the rotor of the electric driving motor.

Title (de)

Unterwasserschraubenpropeller, dessen Mantelring den Rotor eines elektrischen Antriebsmotors aufnimmt.

Title (fr)

Propulseur sous-marin à hélice dont la bague reliant les pales comporte le rotor du moteur électrique entraînant l'hélice.

Publication

**EP 0115045 A1 19840808 (DE)**

Application

**EP 83112944 A 19831222**

Priority

DE 3300380 A 19830107

Abstract (en)

1. Underwater propeller drive with at least one screw propeller, the blade ends of which are one connected with the other by way of a peripheral ring which receives the rotor -excited by a permanent magnet- of an electrical drive motor, the stator of which is accommodated in the fixedly located part, wherein the gap between rotor and stator is flooded, characterized thereby, that the screw propeller with bearing and electrical drive is detachably installed in the end of a transverse channel portion (19), which is pushable as unit into a side wall opening (16) of a ship as far as the abutment (20) in the fixedly installed pipe tunnel (17), wherein the stator (12) is connected by way of a current cable (21) to a terminal box outside the water region.

Abstract (de)

Die Erfindung betrifft einen Unterwasserpropellerantrieb mit permanent erregtem elektrischem Motor für Querstrahlruder oder Unterwasserpumpen. Um die Montage solcher Antriebe zu vereinfachen, wird der Schraubenpropeller (8) mit seiner Lagerung (3 - 6) in ein axial kurzes, an den Stirnflächen offenes Gehäuse (2) eingesetzt. Diese Baueinheit (1) kann in bestehende Rohrtunnel eingeschoben und in der Einbaulage befestigt werden. Der Stator (12) des Motors kann wahlweise außerhalb des Wasserbereiches an das speisende Netz oder an eine Kurzschlußschaltung angeschlossen werden.

IPC 1-7

**B63H 21/30; B63H 1/16; F04D 29/64; F04D 13/06**

IPC 8 full level

**B63H 1/16 (2006.01); B63H 5/14 (2006.01); B63H 21/30 (2006.01); B63H 23/24 (2006.01); B63H 25/42 (2006.01)**

CPC (source: EP)

**B63H 1/16 (2013.01); B63H 21/17 (2013.01); B63H 21/30 (2013.01); B63H 23/24 (2013.01); B63H 2023/005 (2013.01)**

Citation (search report)

- [YD] DE 688114 C 19400213 - LUDWIG KORT DIPLOM ING
- [Y] DE 3042210 A1 19820527 - SYBERTZ HANS ING GRAD
- [A] GB 112094 A 19171227 - TERHAAR ALOYSIUS STEVEN [US]
- [A] FR 2238040 A1 19750214 - MITSUI SHIPBUILDING ENG [JP]
- [A] FR 2270461 A1 19751205 - CERIA [FR]
- [A] DE 2803336 A1 19790802 - GRUENZWEIG & HARTMANN MONTAGE

Cited by

DE102007002519A1; KR100495676B1; EP0566787A1; CN103939360A; CN102632982A; EP2591995A1; DE19503450A1; DE19503450C2; EP0566788A1; DE102006003089B3; EP1022215A3; CN106394841A; GB2359049A; GB2200802A; GR1009624B; WO2004113717A1; WO2007051678A1; US8448591B2; US8814614B2; US6662742B2; US6986320B2; US7246567B2; KR101249570B1; WO2009126097A1

Designated contracting state (EPC)

BE FR GB IT NL SE

DOCDB simple family (publication)

**EP 0115045 A1 19840808; EP 0115045 B1 19861029; DE 3300380 A1 19840712; FI 75777 B 19880429; FI 75777 C 19880808; FI 840026 A0 19840105; FI 840026 A 19840708; JP H039000 B2 19910207; JP S59160699 A 19840911; NO 156892 B 19870907; NO 156892 C 19890307; NO 840040 L 19840709**

DOCDB simple family (application)

**EP 83112944 A 19831222; DE 3300380 A 19830107; FI 840026 A 19840105; JP 24561983 A 19831228; NO 840040 A 19840106**