

Title (en)
SHIP PROPULSION SYSTEM FOR WATERCRAFT

Title (de)
SCHIFFSANTRIEB FÜR EIN WASSERFAHRZEUG

Title (fr)
PROPULSION DE BATEAU

Publication
EP 2323904 B1 20130130 (DE)

Application
EP 09780769 A 20090717

Priority
• EP 2009059223 W 20090717
• DE 102008046292 A 20080908

Abstract (en)
[origin: WO2010025987A2] The invention relates to a ship propulsion system (1) for watercraft, comprising at least one propeller (2; 2a, 2b), by means of which a drive force can be created for the watercraft. The ship propulsion (1) further comprises an electric motor (6; 6a, 6b), the rotor of which is directly mechanically coupled to the at least one propeller (2; 2a, 2b) via a shaft (7) such that the at least one propeller (2; 2a, 2b) may be brought into a respective rotating movement by means of a rotation of the rotor. In order to cool the rotor of the electric motor (6; 6a, 6b) the invention provides a thermosiphon disposed in the shaft (7), wherein the propeller (2; 2a, 2b) serves as a heat sink for a working medium of the thermosiphon.

IPC 8 full level
B63H 21/17 (2006.01); **B63H 1/14** (2006.01)

CPC (source: EP US)
B63H 1/14 (2013.01 - EP US); **B63H 21/17** (2013.01 - EP US); **B63H 21/383** (2013.01 - EP US)

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 SM TR

DOCDB simple family (publication)
WO 2010025987 A2 20100311; WO 2010025987 A3 20110324; DE 102008046292 A1 20100318; DK 2323904 T3 20130506;
EP 2323904 A2 20110525; EP 2323904 B1 20130130; ES 2399640 T3 20130402; KR 20110058795 A 20110601; US 2011165802 A1 20110707;
US 8517785 B2 20130827

DOCDB simple family (application)
EP 2009059223 W 20090717; DE 102008046292 A 20080908; DK 09780769 T 20090717; EP 09780769 A 20090717; ES 09780769 T 20090717;
KR 20117005295 A 20090717; US 200913062835 A 20090717