

Title (en)
Steering device

Title (de)
Lenkvorrichtung

Title (fr)
Dispositif de direction

Publication
EP 2407373 A1 20120118 (EN)

Application
EP 11173954 A 20110714

Priority
NL 2005079 A 20100714

Abstract (en)
The invention concerns a steering device for a ship comprising a channel for guiding a water flow from an inlet opening in a bottom plane near a bow to an outlet opening wherein the channel has perpendicular to a flow direction a constant cross section area. For generating the water flow through the channel there is near the inlet opening in the channel a propeller with propeller blades and in the downstream direction immediately after the propeller blades, the channel makes a bend over an angle of approximately 90 degrees. In accordance with the invention, the propeller blades are mounted in a ring shaped rotor with a rotation axis in line with the flow direction, the outer circumference of the ring shaped rotor is provided with magnets and a stator surrounds the magnets and generates a rotating magnetic field.

IPC 8 full level
B63H 1/04 (2006.01); **B63H 11/08** (2006.01); **B63H 21/17** (2006.01); **B63H 25/42** (2006.01)

CPC (source: EP)
B63H 1/04 (2013.01); **B63H 11/08** (2013.01); **B63H 11/102** (2013.01); **B63H 21/17** (2013.01); **B63H 25/42** (2013.01); **B63H 2011/085** (2013.01); **B63H 2011/087** (2013.01)

Citation (applicant)
• NL 1020119 C1 20030910 - VETH MOTOREN B V [NL]
• US 5476401 A 19951219 - PETERSON FRANK B [US], et al

Citation (search report)
• [XPY] US 2010297895 A1 20101125 - WHITENER PHILIP C [US]
• [Y] WO 2009153124 A2 20091223 - SIEMENS AG [DE], et al
• [XY] US 5476401 A 19951219 - PETERSON FRANK B [US], et al
• [A] WO 8403077 A1 19840816 - SURF JET CORP [US]
• [A] WO 2010063254 A2 20100610 - SCHOTTEL GMBH [DE], et al

Cited by
CN116477039A

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2407373 A1 20120118; EP 2407373 B1 20130925; NL 2005079 C2 20120117

DOCDB simple family (application)
EP 11173954 A 20110714; NL 2005079 A 20100714