

Title (en)  
HORIZONTAL AXIS ROTOR AND BOAT EQUIPPED WITH SAID ROTOR

Title (de)  
ROTOR MIT HORIZONTALER ACHSE UND BOOT MIT DIESEM ROTOR

Title (fr)  
ROTOR À AXE HORIZONTAL ET BATEAU COMPRENANT LEDIT ROTOR

Publication  
**EP 3424811 A4 20191009 (EN)**

Application  
**EP 17759765 A 20170222**

Priority  
• JP 2016038817 A 20160301  
• JP 2017006592 W 20170222

Abstract (en)  
[origin: EP3424811A1] It is an object of the present invention to provide a horizontal shaft rotor with low power and high rotation efficiency by achieving that a high-speed flow according to the Coanda effect caused by rotating the blade rather than pushing out the fluid with the blade flows to the back face direction and propulsive force is obtained as a reaction. A horizontal shaft rotor comprising a lift-type blade, wherein, in the lift-type blade 1, a front face 3D in a flow receiving direction is a large arcuate bulging face in a string direction, a rear face 3E in a discharge direction is made smaller than the bulge of the front face 3D, so that, when the blade rotates, a high speed flow passing along the string direction of the front face from the rear edge portion 3G to the back face 3E direction generates propulsive force.

IPC 8 full level  
**B63H 1/26** (2006.01); **B63H 7/02** (2006.01)

CPC (source: EP KR US)  
**B63H 1/26** (2013.01 - KR US); **B63H 7/02** (2013.01 - EP KR US)

Citation (search report)  
• No further relevant documents disclosed  
• See references of WO 2017150299A1

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

DOCDB simple family (publication)  
**EP 3424811 A1 20190109; EP 3424811 A4 20191009**; CN 108698678 A 20181023; JP 2017154576 A 20170907; KR 20180120709 A 20181106; US 2019009873 A1 20190110; WO 2017150299 A1 20170908

DOCDB simple family (application)  
**EP 17759765 A 20170222**; CN 201780014048 A 20170222; JP 2016038817 A 20160301; JP 2017006592 W 20170222; KR 20187027575 A 20170222; US 201716081375 A 20170222