

Title (en)

COMBINED PROPELLER CAP FOR REDUCING ROTATING FLOW AND HUB VORTEX AND ENHANCING PROPULSION EFFICIENCY

Title (de)

KOMBINIERTER PROPELLERABDECKUNG ZUR VERRINGERUNG VON ROTATIONSFLUSS UND NABENWIRBEL UND ZUR ERHÖHUNG DER ANTRIEBSEFFIZIENZ

Title (fr)

CÔNE D'ÉLICE COMBINÉ POUR RÉDUIRE UN ÉCOULEMENT ROTATIF ET UN TOURBILLON DE MOYEU ET AMÉLIORER L'EFFICACITÉ DE PROPULSION

Publication

EP 3150482 A4 20180117 (EN)

Application

EP 15799494 A 20150522

Priority

- KR 20140064150 A 20140528
- KR 20140121285 A 20140912
- KR 20150030443 A 20150304
- KR 2015005184 W 20150522

Abstract (en)

[origin: EP3150482A1] The present invention relates to the structure of a propeller cap. According to the present invention, in order to solve the problem with the existing PBCF (Propeller Boss Cap Fin) whereby manufacturing is difficult expensive due to precise machining, there is provided a combined propeller cap for reducing rotational flow and hub vortex and improving propulsive efficiency, the combined propeller cap being capable of reducing hub vortex cavitation that is generated behind a propeller by using a structure in which a diffusion type propeller cap is coupled to the end of a contraction type propeller cap, and being capable of additionally reducing the hub vortex cavitation by attaching guide fins at a contractive section or between the contractive section and a diffusive section of the propeller cap.

IPC 8 full level

B63H 1/14 (2006.01); **B63H 1/20** (2006.01); **B63H 1/28** (2006.01)

CPC (source: EP)

B63H 1/14 (2013.01); **B63H 1/20** (2013.01); **B63H 1/28** (2013.01)

Citation (search report)

- [XAY] JP H032895 U 19910111
- [YA] KR 20110138858 A 20111228 - SEK JIN METAL CO LTD [KR]
- [A] DE 19622829 A1 19970220 - SCHOTTEL WERFT [DE], et al
- See references of WO 2015182931A1

Cited by

JP2019006169A

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 3150482 A1 20170405; EP 3150482 A4 20180117; EP 3150482 B1 20200701; CN 105377692 A 20160302; CN 105377692 B 20180213; SG 10201810020R A 20181228; SG 11201609082Y A 20161229; WO 2015182931 A1 20151203

DOCDB simple family (application)

EP 15799494 A 20150522; CN 201580000739 A 20150522; KR 2015005184 W 20150522; SG 10201810020R A 20150522; SG 11201609082Y A 20150522