

Title (en)  
DIFFUSER-TYPE ENDPLATE PROPELLER

Title (de)  
DIFFUSOR-ENDPLATTENPROPELLER

Title (fr)  
HÉLICE À PLAQUE D'EXTRÉMITÉ DE TYPE DIFFUSEUR

Publication  
**EP 3508415 B1 20211201 (EN)**

Application  
**EP 18179727 A 20180626**

Priority  
US 201815860685 A 20180103

Abstract (en)  
[origin: EP3508415A1] A diffuser-type endplate propeller (100) driving a hull (20) and including a propeller hub (110) a plurality of blades (120) is provided. The propeller hub (110) has an axis (L) of rotation and is connected to a transmission shaft (22) of the hull (20). The blade (120) has a blade-body (122) and an endplate (124). The blade-body (122) is connected to the propeller hub (110) and extends outward from the propeller hub (110) to the corresponding endplate (124), the endplate (124) bends from the corresponding blade-body (122) to extend towards a stern (24) of the hull (20), and the endplate (124) has a leading edge (124a) and a trailing edge (124b). A cylindrical surface (S1) is imaginarily formed by the leading edges (124a) while the diffuser-type endplate propeller (100) is rotated about the axis (L). Each of the endplates (124) has a first tangent plane (C1) at the leading edge (124a) thereof, the cylindrical surface (S1) has a second tangent plane (C2) at the leading edge (124a). An included angle ( $\alpha$ ) is measured from the second tangent plane (C2) to the first tangent plane (C1).

IPC 8 full level  
**B63H 1/15** (2006.01); **B63H 1/18** (2006.01); **B63H 1/26** (2006.01); **B63H 1/28** (2006.01)

CPC (source: EP)  
**B63H 1/15** (2013.01); **B63H 1/18** (2013.01); **B63H 1/26** (2013.01); **B63H 1/28** (2013.01)

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 3508415 A1 20190710; EP 3508415 B1 20211201**; DK 3508415 T3 20220228; ES 2904871 T3 20220406; JP 2019119436 A 20190722

DOCDB simple family (application)  
**EP 18179727 A 20180626**; DK 18179727 T 20180626; ES 18179727 T 20180626; JP 2018153649 A 20180817