

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 (α) 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)
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