

Title (en)

Flow guiding device

Title (de)

Strömungsleitvorrichtung

Title (fr)

Dispositif de guidage de l'écoulement

Publication

EP 0540868 B1 19960417 (DE)

Application

EP 92115977 A 19920918

Priority

DE 4136245 A 19911102

Abstract (en)

[origin: EP0540868A1] Provision is made for a combination of flow-guiding devices to be designed in such a way that a partial propeller casing is arranged as a saddle nozzle above the propeller like the top part of a Kort nozzle and is stiffened owing to the fact that roughly horizontal or radial guiding surfaces situated in front of or behind the propeller statically form a unit with the saddle nozzle so that the rigidity of the saddle nozzle and the strength of the flow-guiding surfaces are increased. At the nozzle part of the system of flow-guiding surfaces, the distance from the tip circle of the propeller blades in the inlet and outlet area of the propeller blades is increased to reduce the vibrations which are caused by the thrust pulses circulating with the propeller-blade tips. <IMAGE>

IPC 1-7

B63H 5/16

IPC 8 full level

B63H 5/16 (2006.01)

CPC (source: EP)

B63H 5/08 (2013.01); **B63H 5/15** (2013.01); **B63H 25/381** (2013.01); **B63H 2025/387** (2013.01)

Citation (examination)

PATENT ABSTRACTS OF JAPAN vol. 11, no. 175 (M-596)(2622) 5. Juni 1987 & JP-A-62 6 891 (NIPPON-KOKAN KK)

Cited by

KR20150034326A; CN104625447A; CN106275339A; GB2302317B; CN102009322A

Designated contracting state (EPC)

DE GB NL

DOCDB simple family (publication)

EP 0540868 A1 19930512; **EP 0540868 B1 19960417**; CN 1072146 A 19930519; DE 4138281 C1 19930429; DE 59206029 D1 19960523; PL 296437 A1 19930628

DOCDB simple family (application)

EP 92115977 A 19920918; CN 92111177 A 19921027; DE 4138281 A 19911121; DE 59206029 T 19920918; PL 29643792 A 19921030