

Title (en)
BOAT PROPELLER

Title (de)
BOOTSPROPELLER

Title (fr)
HÉLICE DE BATEAU

Publication
EP 3725667 A1 20201021 (EN)

Application
EP 19172225 A 20190502

Priority
TW 108113633 A 20190418

Abstract (en)
A boat propeller (10) includes a gear box (20), an impeller (30), a stream-guiding ring (50), and a stream-shaping nozzle (60). The gear box (20) has a casing (21) and a transmission shaft (27) partially received in the casing (21). The impeller (30) has an impeller shaft (31) and vanes (38). The impeller shaft (31) has a hollow columnar outer shaft housing (32) and a hollow columnar inner shaft housing (33). The inner and outer shaft housings (32) are connected using a plurality of rib portions (37). The inner shaft housing (33) is further connected to the transmission shaft (27) of the gear box (20). The vanes (38) are integrated formed on an outer peripheral surface of the outer shaft. The stream-guiding ring (50) is assembled to the casing (21) of the gear box (20) to house the impeller (30). The stream-shaping nozzle (60) is connected to a rear end of the stream-guiding ring (50) for providing stream-shaping effects. Thereby, the boat propeller (10) has its water inlet diameter maximized, which helps to improve propulsive efficiency.

IPC 8 full level
B63H 1/14 (2006.01)

CPC (source: CN EP US)
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Citation (search report)
• [XYI] US 6190218 B1 20010220 - HALL KIMBALL P [US], et al
• [Y] US 2008096446 A1 20080424 - LIN YEUN-JUNN [TW]
• [X] US 5752864 A 19980519 - JONES JAMES R [US], et al

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

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EP 19172225 A 20190502; AU 2019203143 A 20190503; AU 2020201971 A 20200319; CA 3042665 A 20190508; CN 201910358336 A 20190430; JP 2019092551 A 20190516; MX 2019006213 A 20190528; TW 108113633 A 20190418; US 201916408880 A 20190510