

Title (en)
Retractable thruster for vessels

Title (de)
Abschwenkbares Strahlruder für Schiffe

Title (fr)
Propulseur rétractable pour vaisseaux

Publication
EP 1876094 A3 20080319 (EN)

Application
EP 07109804 A 20070607

Priority
• EP 06116730 A 20060706
• EP 07109804 A 20070607

Abstract (en)
[origin: EP1876094A2] A thruster device provides thrust for moving a vessel. A thruster unit (1) has a propeller (8) for generating the thrust and a compact power system (9,10) for providing power to rotate the propeller. A compact retractor assembly moves the thruster unit between a recessed position and an operational position. The thruster unit (1) has a piston element (3), and the retractor assembly comprises a housing (2) having an inner space (21) for receiving the piston element. The inner space receives a pressure fluid (24) for applying a hydraulic pressure on the piston element for the moving of the thruster unit. The propeller has an outer ring (80). The outer ring has a sequence of magnets (9) cooperating with coils (10). A coil current provided by a power control unit generates a magnetic force on the sequence of magnets to rotate the propeller.

IPC 8 full level
B63H 25/42 (2006.01); **B63H 21/17** (2006.01); **B63H 23/24** (2006.01)

CPC (source: EP)
B63H 1/16 (2013.01); **B63H 25/42** (2013.01); **B63H 2023/005** (2013.01); **B63H 2025/425** (2013.01)

Citation (search report)
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