

Title (en)
Jet drive.

Title (de)
Strahlantrieb.

Title (fr)
Propulseur à réaction.

Publication
EP 0157287 A2 19851009 (DE)

Application
EP 85103200 A 19850319

Priority
• DE 3409974 A 19840319
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• DE 3433810 A 19840914

Abstract (en)
1. Jet propulsion for ships having at least one nozzle body which is attached on the stern side to a holding device arranged underwater and is connected with at least one motor-driven high-pressure pump, the nozzle-shaped outlet of said jet propulsion being aligned generally horizontally, with a circular nozzle port on the outlet side and a diffuser through which, by means of the pressurised water coming out of the nozzle-shaped outlet, further water is sucked in order to increase the quantity of water coming out of the nozzle body, characterised in that the at least one high-pressure pump is connected with a rotationally symmetrical annular chamber (41) which is subdivided by means of a separating bar (81) into two sectional chambers (82, 83) which can alternately be impacted with pressurised water and are connected in each case with a rotationally symmetrical annular chamber (48, 48a), annuluslike nozzle-shaped outlets (43, 80) being arranged on the end sections of the latter that are turned away from the sectional chambers (82, 83), the annular chamber walls (45, 77) of the annular chambers (41, 48, 48a) being designed in such a way that the rotationally symmetrical suction channel (40) surrounded by these has the smallest diameter in the area of the annular chamber (41) and widens at the end sections on the opening side in a diffuser-like manner.

Abstract (de)
Die Erfindung betrifft einen Strahlantrieb 25 für Schiffe 1. Er besteht aus einer heckseitig unter Wasser 2 angeordneten Halteeinrichtung 4, an deren freiem Endabschnitt 5 ein an einer vertikalen Achse 6 drehbarer Düsenkörper 7 angeordnet ist. Die Düsen 8 des Düsenkörpers 7 können allgemein horizontal oder aber zur Horizontalen winklig nach außen ausgerichtet sein. Die Düsen 8 sind über entsprechende Verbindungsleitungen mit einer motorisch betriebenen Hochdruckpumpe 9 verbunden.

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