

Title (en)
DRIVE UNIT FOR A SHIP

Title (de)
ANTRIEBSELEMENT FÜR SCHIFFE

Title (fr)
UNITE DE COMMANDE D'UN BATEAU

Publication
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Application
EP 94925640 A 19940721

Priority
• NL 9400171 W 19940721
• NL 9301292 A 19930722

Abstract (en)
[origin: WO9503211A1] The invention relates to a drive unit for a ship, comprising a gearbox (5) placed on a bedplate in the ship and two screw propellers (75, 76) rotating in opposite directions about a common axis. The screw propellers are driven by two concentrically rotating propeller shafts (2, 6), the inner shaft (2) being supported in at least two bearings (14, 17) provided with a lubricant supply. The bearings (14, 17) of the inner shaft each consist of stationary bearings which are connected by means of stationary bushes (15, 21) to the gearbox (5) in a fixed manner in the direction of rotation of the shafts. The inner shaft bearings (14, 17) are clad with bearing material, at the position of the bearing gap, on both walls facing the propeller shafts (2, 6), while lubricants are supplied to these bearings through one or more ducts disposed in the wall of the stationary bushes and running from the gearbox to the bearing gap. The bearings and the stationary bushes between the bearings and the gearbox are interconnected in such a way that the axial directions of two adjacent parts can form a small angle with each other. The bearings are in the form of hydrodynamically lubricated bearings, to which the oil is supplied uniformly over the bearing width of each bearing by means of an oil pump placed near the gearbox through ducts drilled in the stationary bushes.

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