

Title (en)

SHIP DRIVE WITH A DRIVING ENGINE AND A DIRECTLY DRIVEN PROPELLER SHAFT

Title (de)

SCHIFFSANTRIEB MIT EINER ANTRIEBSMASCHINE UND DIREKT ANGETRIEBENER PROPELLERWELLE

Title (fr)

PROPULSION DE NAVIRES AVEC UNE MACHINE MOTRICE ET UN ARBRE D'HELICE DIRECTEMENT ENTRAINE

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Application

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Abstract (en)

[origin: US6033271A] PCT No. PCT/DE96/01907 Sec. 371 Date Apr. 21, 1998 Sec. 102(e) Date Apr. 21, 1998 PCT Filed Oct. 1, 1996 PCT Pub. No. WO97/13682 PCT Pub. Date Apr. 17, 1997A ship propulsion system in which the ship's propeller is connected with its propeller shaft directly to a drive mechanism. A thrust bearing in the drive mechanism receives directly the thrust of the propeller shaft. An auxiliary drive with an electrical machine is operable selectively as a motor or as a generator, and a coupling is provided between the electrical machine and transmission linkage in the auxiliary drive. A gear on the transmission surrounds the propeller shaft, and a flexible coupling connects the transmission to the propeller shaft. Mounted on a separate section of the propeller shaft between the transmission and the drive mechanism, is a shiftable coupling which is free of play and transmits torque from the drive mechanism to the propeller shaft as well as the thrust of the propeller shaft. An auxiliary thrust bearing is connected to the shiftable coupling and is actuated when the ship is in auxiliary or emergency operation during which the propeller shaft has a reduced thrust.

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