

Title (en)
LINE DESIGN AND PROPULSION SYSTEM FOR A DIRECTIONALLY STABLE, SEAGOING BOAT WITH RUDDER PROPELLER DRIVE SYSTEM

Title (de)
LINIENENTWURF UND PROPULSIONSANORDNUNG FÜR EIN KURSSTABILES, SEEGEHENDES SCHIFF MIT RUDERPROPELLERANTRIEB

Title (fr)
ETUDE ET DISPOSITION DE PROPULSION POUR UN NAVIRE HAUTURIER A BONNE TENUE DE CAP, ENTRAINE PAR DES HELICES DE GOUVERNAIL

Publication
EP 1476353 B1 20071212 (DE)

Application
EP 03742491 A 20030217

Priority
• DE 0300479 W 20030217
• DE 10206669 A 20020218

Abstract (en)
[origin: WO03070567A1] Disclosed is a seagoing boat which is driven by at least two rudder propellers and has a hull for transporting cargo or passengers. Said rudder propellers are preferably embodied as electric rudder propellers (PODS) (3). The hull has an approximately rectangular cross section amidships, to which flow-directing bodies (skegs) (1) are connected. A flow channel is configured between said skegs (1), said flow channel being embodied in a wedge-shaped manner with a continuous, preferably slightly bent enlargement in the direction of the bottom astern. The side walls of the flow channel are configured at least in part as even surfaces and taper off in the form of fin-shaped teeth (2) having water displacement volume. The streaming effect of the flow channel generates a low boat resistance. The influence of the flow channel on the wake has a positive effect on the propulsion efficiency.

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