

Title (en)

Pre-nozzle for a drive system of a water vehicle for improving energy efficiency

Title (de)

Vordüse für ein Antriebssystem eines Wasserfahrzeuges zur Verbesserung der Energieeffizienz

Title (fr)

Pré-buse pour propulsion de véhicule nautique afin d'améliorer l'efficience énergétique

Publication

EP 2492185 A1 20120829 (DE)

Application

EP 11173670 A 20110712

Priority

DE 202011000439 U 20110225

Abstract (en)

The front-nozzle (10a) has a water inlet opening and a water outlet opening, where a fin system is arranged within the front-nozzle. An inlet region of the front-nozzle is provided without fin system. The front-nozzle is formed in a rotationally asymmetric manner. A water-inlet-side opening area (19) of the front-nozzle is greater than a water-inlet-side opening area of a rotationally symmetrical front-nozzle with the same center radius.

Abstract (de)

Um bei einer propellerlosen Vordüse (10a, 10b, 10c) für ein Antriebssystem eines Wasserfahrzeuges, die eine Wassereintrittsöffnung (12) und eine Wasseraustrittsöffnung (13) aufweist, in deren Inneren ein Fin-System (14) angeordnet ist, und deren Eintrittsbereich kein Fin-System (14) aufweist, die Antriebseffizienz weiter zu verbessern, wird vorgeschlagen, die Vordüse (10a, 10b, 10c) rotationsasymmetrisch auszubilden.

IPC 8 full level

B63H 1/28 (2006.01); **B63H 5/16** (2006.01)

CPC (source: EP KR US)

B63H 1/28 (2013.01 - EP KR US); **B63H 5/16** (2013.01 - EP KR US)

Citation (applicant)

EP 2100808 A1 20090916 - BECKER MARINE SYS GMBH & CO KG [DE]

Citation (search report)

- [X] JP S6238800 U 19870307
- [Y] KR 20080055615 A 20080619 - UNIVERSAL SHIPBUILDING CORP [JP]
- [Y] EP 2100808 A1 20090916 - BECKER MARINE SYS GMBH & CO KG [DE]
- [A] JP H09175488 A 19970708 - SUMITOMO HEAVY INDUSTRIES

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