

Title (en)  
Propulsion for hydrofoils.

Title (de)  
Bootsantrieb für Gleitboote.

Title (fr)  
Propulsion pour hydroglisseur.

Publication  
**EP 0407630 A1 19910116 (DE)**

Application  
**EP 89112617 A 19890711**

Priority  
EP 89112617 A 19890711

Abstract (en)  
[origin: US5066255A] In a drive arrangement for a planing hull boat in which a drive shaft extends from a motor within the hull through the stern wall to a propeller arranged in a tunnel-shaped water flow guide structure extending backwardly from the bottom edge of the stern wall and upwardly in a curved fashion, the propeller is mounted so as to be rotatable about an axis which is essentially parallel to and in alignment with the hull bottom. The flow guide structure has a top end section hinged so as to be tiltable about a horizontal axis between the guide structure side walls and, at its front end adjacent the rear hull bottom edge, a scoop adapted to scoop up a stream of water which is directed over the flow guide structure to form a water seal preventing in leakage of air into the water flowing through the flow guide structure.

Abstract (de)  
Zur Optimierung von Gleitboot- Antriebe, bei denen der Propeller in einem tunellartigen Gehäuse arbeitet, wird vorgeschlagen, die Wirkungslinie des Propellers (6) etwa parallel zum Boden des Gleitbootes (18) zu legen und auch einen in Fahrtrichtung offenen Spalt (19) zwischen der Boden/Heck-Kante des Bootes und dem tunnelartigen Gehäuse (5) vorzusehen sowie am oberen Ende des tunnelartigen Gehäuses einen verschwenkbaren, gegen die seitlichen Gehäuseteile abgedichteten Gehäuseteil (12) anzuordnen.

IPC 1-7  
**B63H 5/13; B63H 5/16**

IPC 8 full level  
**B63B 1/36** (2006.01); **B63H 5/125** (2006.01); **B63H 5/14** (2006.01); **B63H 5/16** (2006.01); **B63H 23/36** (2006.01)

CPC (source: EP US)  
**B63H 5/1252** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)  
AT BE CH DE ES FR GB GR IT LI NL SE

DOCDB simple family (publication)  
**EP 0407630 A1 19910116; EP 0407630 B1 19921119**; AT E82554 T1 19921215; AU 5888390 A 19920116; AU 627599 B2 19920827; DE 58902780 D1 19921224; ES 2035458 T3 19930416; GR 3006363 T3 19930621; US 5066255 A 19911119

DOCDB simple family (application)  
**EP 89112617 A 19890711**; AT 89112617 T 19890711; AU 5888390 A 19900710; DE 58902780 T 19890711; ES 89112617 T 19890711; GR 920402721 T 19921126; US 54106390 A 19900620