

Title (en)
Cycloidal propeller

Title (de)
Zykloidalpropeller

Title (fr)
Propulseur cycloidal

Publication
EP 0829422 A2 19980318 (DE)

Application
EP 97114713 A 19970826

Priority
DE 19637786 A 19960917

Abstract (en)
The rotor rotary axis and the vane pivot axes run parallel to one another and vertically. The adjustment of the vanes (1) is achieved by a central control wire bar, via a rod which forms the propeller kinematics. Additional devices (5) are provided, which with the rotor blocked effect an adjustment of the vanes in the sailing position, with which the vanes extend parallel to one another and which bring the vanes out of the sailing position into any required steering position. The additional devices engage the vanes via a gear (3,4) and may comprise hydraulic stroke cylinders, installed at a suitable position of the propeller kinematics. In the event of thrust crank kinematics, the cylinder completely or partly replaces the coupling rod (19) of the propeller kinematics.

Abstract (de)
Bei einem Zykloidalpropeller wird für reinen Ruderbetrieb jeweils eine Zusatzeinrichtung vorgesehen, die an eine mit dem Flügelschaft des betreffenden Flügels (1) verbundenen Zahnradgetriebe (3) angreifen, erreicht, daß zur Erzielung einer großen Schwenkbewegung der Flügel (1) relativ kleine Stellbewegungen der Zusatzeinrichtungen ausreichen, so daß die Flügel (1) ohne Behinderung über große Winkel verstellt werden können. Dadurch sind Normalprofile der Flügel möglich. <IMAGE>

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B63H 1/10

IPC 8 full level
B63H 1/10 (2006.01)

CPC (source: EP KR US)
B63H 1/10 (2013.01 - EP KR US); **B63H 3/002** (2013.01 - KR); **B63H 3/08** (2013.01 - KR); **F15B 15/06** (2013.01 - KR); **F15B 15/14** (2013.01 - KR); **B63H 2001/105** (2013.01 - KR); **F15B 2211/7051** (2013.01 - KR); **F15B 2211/71** (2013.01 - KR)

Citation (applicant)
• DE 1941652 B2 19730201
• DE 3606549 A1 19870903 - DAVID KLAUS
• DE 19602043 C1 19970327 - VOITH HYDRO GMBH [DE]

Cited by
GB2345039A; GB2345039B

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
DE 19637786 C1 19980226; CN 1180635 A 19980506; EP 0829422 A2 19980318; EP 0829422 A3 19991103; KR 19980024657 A 19980706; US 6065935 A 20000523

DOCDB simple family (application)
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