

Title (en)  
Cycloidal propeller

Title (de)  
Zykloidalpropeller

Title (fr)  
Propulseur cycloidal

Publication  
**EP 0829423 A2 19980318 (DE)**

Application  
**EP 97114819 A 19970827**

Priority  
DE 19637833 A 19960917

Abstract (en)  
The vanes (1) are adjusted by a central control unit (8) using rods (20,51,52) forming the propeller kinematics (2). Additional devices are provided, which with the rotor blocked, effect an adjustment of the vanes in the trailing or power-off position, in which the vanes extend parallel to one another. The additional devices, when required, bring the vanes out of the trail position into the rudder position again. They (3-5) can be coupled to the vane shaft via disengageable couplings. A further coupling per vane is provided for separating the vane concerned from the propeller kinematics. A rotary motor can be coupled to a vane shaft by a disengageable coupling.

Abstract (de)  
Bei einem Zykloidalpropeller sind zwecks Erzielung eines reinen Ruderbetriebes desselben Zusatzantriebe enthaltende Zusatzeinrichtungen mit Kupplungen vorgesehen, die diese Zusatzantriebe an die Propellerschäfte kuppeln, und es sind weitere Kupplungen vorgesehen, die in diesem Fall die beim Marschbetrieb vorhandene feste Verbindung der normalen Propellerkinematik (2) mit den Flügelschäften (3) lösen. <IMAGE>

IPC 1-7  
**B63H 1/10**

IPC 8 full level  
**B63H 1/10** (2006.01); **B63H 25/34** (2006.01); **B63H 25/38** (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); **B63H 25/34** (2013.01 - EP US); **B63H 25/382** (2013.01 - EP US); **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 1192945 B 19650513 - VOITH GMBH J M
- DE 19602043 C1 19970327 - VOITH HYDRO GMBH [DE]
- DE 4019746 C1 19910808
- DE 4019747 C1 19910919
- US 4859106 A 19890822 - ELSNER ERNST [DE], et al
- DUBBEL: "Taschenbuch des Maschinenbaus", pages: 746 - 750
- THOMAS KRIST: "Hydraulik-Fluidtechnik", article "Schubkolben-Hydrozylinder", pages: PAR. 8.1

Designated contracting state (EPC)  
DE FI FR GB SE

DOCDB simple family (publication)  
**DE 19637833 C1 19980205**; CN 1177560 A 19980401; DE 59707140 D1 20020606; EP 0829423 A2 19980318; EP 0829423 A3 19991103; EP 0829423 B1 20020502; KR 19980024658 A 19980706; US 5993157 A 19991130

DOCDB simple family (application)  
**DE 19637833 A 19960917**; CN 97121356 A 19970917; DE 59707140 T 19970827; EP 97114819 A 19970827; KR 19970047348 A 19970913; US 92981897 A 19970915