

Title (en)
ADJUSTMENT DEVICE FOR ADJUSTING PROPELLER BLADES OF A PROPELLER PUMP AND A PROPELLER PUMP INCLUDING SUCH A DEVICE

Title (de)
EINSTELLVORRICHTUNG ZUR EINSTELLUNG VON PROPELLERSCHAUFELN EINER PROPELLERPUMPE UND SOLCH EINE VORRICHTUNG ENTHALTENDE PUMPE

Title (fr)
DISPOSITIF DE RÉGLAGE POUR RÉGLER DES LAMES DE PROPULSEUR D UNE POMPE À PROPULSEUR ET POMPE À PROPULSEUR ENGLOBANT UN TEL DISPOSITIF

Publication
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Application
EP 06747852 A 20060605

Priority
• SE 2006000658 W 20060605
• US 69301805 P 20050622

Abstract (en)
[origin: WO2006137765A1] The present invention relates to an adjustment device for adjusting the pitch angle of the propeller blades (4) of a propeller pump (1) and a propeller pump incorporating such a device. The adjustment device comprises adjustment means (5; 25; 35) mounted within the hub (2) arranged to be axially movable in a direction along the drive shaft (7), the adjustment means (5; 25; 35) being provided with a plurality of guide slots (6; 26a, 26b; 36) arranged at circumferential spacings around the surface; a plurality of attachment means (20) rotationally mounted in the hub (2), each being fixedly attached to a propeller blade (4) and supported by at least one guide slot (6; 26a, 26b; 36), wherein each attachment means (20) and the corresponding at least one guide slot (6; 26a, 26b; 36) are arranged to interact such that a force applied on the attachment means (20) is distributed symmetrically about an axis perpendicular to the drive shaft (7) and parallel with a rotational axis of the attachment means (20); and wherein the guide slots (6; 26a, 26b; 36) are arranged to, at an axial movement of the adjustment means (5; 25; 35), cause the attachment means (5; 25; 35) to rotate about its own rotational axis, whereby the propeller blade (4) in turn is rotated.

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CPC (source: EP US)
F04D 15/0055 (2013.01 - EP US)

Citation (search report)
See references of WO 2006137765A1

Citation (examination)
• US 2699221 A 19550111 - NICHOLS HARRY J
• US 3645644 A 19720229 - SCHWISOW VERN L

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