

Title (en)  
FLUID-COLUMN HYDRAULIC MOTOR WITH SIMPLIFIED MEANS FOR RETAINING THE PROPULSION MEMBERS AGAINST RESPECTIVE SLIDING SURFACES

Title (de)  
FLUID-SÄULEN-HYDRAULIKMOTOR MIT VEREINFACHTEN MITTELEN ZUM HALTEN DER ANTRIEBSELEMENTE GEGEN ZUGEHÖRIGE GLEITFLÄCHEN

Title (fr)  
MOTEUR À COLONNE DE FLUIDE HYDRAULIQUE DOTÉ DE MOYENS SIMPLIFIÉS PERMETTANT DE RETENIR LES ÉLÉMENTS DE PROPULSION CONTRE DES SURFACES DE GLISSEMENT ASSOCIÉES

Publication  
**EP 3023637 A1 20160525 (EN)**

Application  
**EP 15193044 A 20151104**

Priority  
IT MI20140342 U 20141107

Abstract (en)  
Fluid-column hydraulic motor comprising a casing (1) which internally seats the drive shaft (2) provided with an eccentric cam (3) against which a plurality of propulsion members (10) act, said propulsion members being closed inside the casing (1) by a respective cover (104) which is fastened to the casing (1) by respective fixing means, each propulsion member (10) comprising an outer cylinder (11), one of the two end edges (11a) of which rests on the outer surface (3a) of the said eccentric cam (3), and a piston (12), telescopically slidable in the radial direction inside the cylinder (11) and having one of the two end edges making bearing contact against a respective sliding surface (104b) of the cover (104); means for sealingly retaining the piston (12) against the sliding surface (104b) of the cover (104), said retaining means comprising an anchoring pin (100) formed as one piece and provided with: - a head (101) for engagement with the cover (104) of the motor; - a shank (102) with a diameter smaller than that of the head; - a radially inner disk (103) with an outer diameter smaller than the inner diameter of the piston (12) and designed to make axial contact against an inwardly projecting annular edge (12a) formed on the radially outer end of the said piston (12), correspondingly the cover (104) of the motor having: - a radially inner keyed cavity (105).

IPC 8 full level  
**F04B 1/04** (2006.01); **F03C 1/053** (2006.01); **F03C 1/28** (2006.01); **F03C 1/32** (2006.01); **F04B 1/113** (2006.01)

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Citation (applicant)  
• EP 0851119 A2 19980701 - RIVA CALZONI SPA [IT]  
• EP 1609987 A1 20051228 - PARKER CALZONI S R L [IT]

Citation (search report)  
• [AD] EP 1609987 A1 20051228 - PARKER CALZONI S R L [IT]  
• [A] EP 0266806 A2 19880511 - RIVA CALZONI SPA [IT]  
• [A] US 3030932 A 19620424 - THEODOR MULLER  
• [A] US 3726188 A 19730410 - SIEBELT R

Designated contracting state (EPC)  
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Designated extension state (EPC)  
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