

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

Title (de)
FLUID-SÄULEN-HYDRAULIKMOTOR MIT VERBESSERTEN MITTELN ZUM HALTEN DES ANTRIEBS GEGEN ZUGEHÖRIGE GLEITFLÄCHEN

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

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Application
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Abstract (en)
[origin: EP3018345A1] Fluid-column hydraulic motor comprising a casing (1), a drive shaft (2) formed integrally with an eccentric cam (3), a plurality of propulsion members (10) each comprising a cylinder (11) and a piston (12) which are coaxial with each other and telescopically movable relative to each other, means for sealingly retaining the ends of the cylinders (11) against the eccentric cam (3) and the ends of the pistons (12) against respective surfaces (4b) of the cover (4), wherein the surface (4b) of the cover (4) has a convex spherical shape, the means for retaining the free end (12a) of the piston (12) against this contact surface (4b) have a radially outer surface (12b) in contact with the sliding-contact surface (4b) of the cover (4) which is shaped in the form of a concave spherical surface (12b) parallel to the convex spherical surface of the sliding-contact surface (4b) of the cover (4) and a radially inner surface (12d) opposite to the radially outer surface (12b), which inner surface has a convex spherical shape parallel to that of the sliding-contact surface (4b) of the cover (4) and the casing (1) of the motor has an annular projection (1a) axially directed towards the inside of the motor and provided with a concave, spherical shaped, upper surface (1d) parallel to the said convex, radially inner, spherical surface (12d) of the corresponding end of the piston (12).

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