

Title (en)
FLUID MOTOR HAVING IMPROVED BRAKING EFFECT

Title (de)
FLUIDMOTOR MIT VERBESSERTER BREMSWIRKUNG

Title (fr)
MOTEUR HYDRAULIQUE À ACTION DE FREINAGE AMÉLIORÉE

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Application
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Abstract (en)
[origin: WO2008077561A1] The invention relates to a motor having an inner motor compartment (18). A rotatable rotor (20) can be driven by applying a pressure medium to it, wherein the pressure medium expands in a working region (40) of the motor compartment (18). A brake element (22) for braking the rotor (20) is disposed axially adjacent thereto. The brake element (22) and the rotor (20) are axially displaceable in relation to one another and form a spring-loaded friction pair (48, 50). In order to be able to achieve a higher braking effect due to stronger springs (52), a pressure chamber (60) is provided, the extension of which in the cross-section thereof is larger than the cross-sectional extension of the motor compartment (18) in the working region (40). The pressure chamber (60) is delimited axially at least on one side by the brake element (22). A pressure in the pressure chamber (60), and optionally between the brake element (22) and the adjacent face of the rotor (20), brings about a force for separating the friction pair (48, 50) counter to the spring force. The pressure chamber (60) is disposed such that the pressure medium reaches the pressure chamber (60) when it is applied to the motor (20).

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