

Title (en)

LINEAR, HYDRAULIC PIVOT DRIVE

Title (de)

LINIENFÖRMIGER, HYDRAULISCHER SCHWENKANTRIEB

Title (fr)

DISPOSITIF D'ENTRAÎNEMENT EN ROTATION HYDRAULIQUE LINEAIRE

Publication

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Application

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Abstract (en)

[origin: WO03072955A1] The invention relates to a linear, hydraulic pivot drive, especially for the flap control system of aerodynamic structures. Said pivot drive (1) comprises a housing (2) provided with ports (3, 4) for introducing a hydraulic medium, a piston (5) which is arranged inside the housing (2) and can be axially displaced by the effect of the hydraulic medium, and an output shaft (6) which is provided with coarse threads (8a, 8b) and interacts with the piston (5) in order to convert the axial displacement of the piston (5) into a rotational movement. The invention is characterised in that the output shaft (6) is integrated into the piston (5), the coarse threads (8a, 8b) running in the same direction and engaging in the piston (5), and the cross-section of the piston has a spline profile for effectively preventing a rotational movement of the piston (5).

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