

Title (en)

LINEAR, HYDRAULIC PIVOT DRIVE

Title (de)

LINIENFÖRMIGER, HYDRAULISCHER SCHWENKANTRIEB

Title (fr)

DISPOSITIF D'ENTRAÎNEMENT EN ROTATION HYDRAULIQUE LINEAIRE

Publication

EP 1488111 A1 20041222 (DE)

Application

EP 03718601 A 20030221

Priority

- DE 0300541 W 20030221
- DE 10207830 A 20020225

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).

IPC 1-7

F15B 15/08; **B64C 13/36**

IPC 8 full level

B64C 13/40 (2006.01); **F15B 15/06** (2006.01); **F15B 15/08** (2006.01)

CPC (source: EP US)

F15B 15/068 (2013.01 - EP US); **Y10T 74/18056** (2015.01 - EP US)

Citation (search report)

See references of WO 03072955A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

WO 03072955 A1 20030904; CA 2476903 A1 20030904; CA 2476903 C 20101123; DE 10207830 A1 20030911; DE 10207830 B4 20040701; DE 50301861 D1 20060112; EP 1488111 A1 20041222; EP 1488111 B1 20051207; ES 2251683 T3 20060501; JP 2005525516 A 20050825; JP 4227527 B2 20090218; US 2005178927 A1 20050818; US 7028602 B2 20060418

DOCDB simple family (application)

DE 0300541 W 20030221; CA 2476903 A 20030221; DE 10207830 A 20020225; DE 50301861 T 20030221; EP 03718601 A 20030221; ES 03718601 T 20030221; JP 2003571610 A 20030221; US 50567804 A 20040825