

Title (en)
LINEAR ACTUATOR WITH HYDRAULIC AMPLIFICATION

Publication
EP 0338036 B1 19920408 (DE)

Application
EP 88908126 A 19880927

Priority
CH 410187 A 19871020

Abstract (en)
[origin: WO8903939A1] A linear drive comprises a hydraulic unit (1), a control valve (5) and an actuating drive (9) with an actuating member (7). These elements are interconnected by means of two inertia drive starters (4, 8), which results in a mechanically-induced return movement. The movement of the piston rod (15) of the hydraulic unit (1) is controlled in the actuating drive (9) by means of active elements (10, 35, 56) moved translationally in the direction of the longitudinal axis of the linear drive. The active elements (10, 35) and the actuating member (7) are connected without play in the axial direction but can counterrotate with respect to each other by means of a bearing (38). A lever (13) is arranged on the actuating member (7) and can be rotated together with the actuating member (7) about the axis (60). The lever (13) co-operates with a stop element (14) which can be adjusted by a rack (50) and which limits the rotation of the lever (13).

IPC 1-7
F15B 9/12

IPC 8 full level
F15B 9/08 (2006.01); **F02M 59/00** (2006.01); **F15B 9/12** (2006.01)

CPC (source: EP KR US)
F15B 9/12 (2013.01 - EP KR US)

Citation (examination)
DE 3100725 A1 19820701 - SULZER AG [CH]

Cited by
CN107024381A; CN103410602A

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
WO 8903939 A1 19890505; AT E74652 T1 19920415; CN 1020786 C 19930519; CN 1033310 A 19890607; DE 3869949 D1 19920514; EP 0338036 A1 19891025; EP 0338036 B1 19920408; FI 892654 A0 19890531; FI 892654 A 19890531; FI 90279 B 19930930; FI 90279 C 19940110; JP H02501847 A 19900621; JP H0768961 B2 19950726; KR 890701903 A 19891222; KR 950009554 B1 19950824; PL 160607 B1 19930430; PL 275399 A1 19890502; US 5056414 A 19911015

DOCDB simple family (application)
CH 8800174 W 19880927; AT 88908126 T 19880927; CN 88107292 A 19881018; DE 3869949 T 19880927; EP 88908126 A 19880927; FI 892654 A 19890531; JP 50753488 A 19880927; KR 890701116 A 19890620; PL 27539988 A 19881020; US 38164989 A 19890620