

Title (en)

FLUID-ACTUATED LINEAR UNIT, IN PARTICULAR LINEAR DRIVE

Title (de)

FLUIDBETÄTIGTE LINEAREINHEIT, INSBESONDERE LINEARANTRIEB

Title (fr)

UNITE LINEAIRE ACTIONNEE PAR FLUIDE, NOTAMMENT ENTRAINEMENT LINEAIRE

Publication

EP 2047116 B1 20100714 (DE)

Application

EP 07702715 A 20070112

Priority

EP 2007000242 W 20070112

Abstract (en)

[origin: WO2008083717A1] A fluid-actuated linear unit is proposed, the linear unit having a piston (6) which forces a fluid out of a working chamber (5) into a control passage (23) when it moves into its final piston position. Final position damping means (32) bring about a braking of the piston (6) and contain a sealing ring (33) which can slide along a sealing surface (35). The sealing surface (35) contains first damping grooves (42) which end before the rear side, and also at least one second damping groove (43) which overlaps axially with the first damping grooves (42) and extends as far as the rear side of the sealing surface (35). By means of the interaction of these damping grooves (42, 43) with the sealing ring (33), a speed-dependent damping characteristic is obtained.

IPC 8 full level

F15B 15/22 (2006.01)

CPC (source: EP)

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Cited by

EP3205891A1; EP3205892A1; WO2016079653A1; US11493064B2; EP2455620A1

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