

Title (en)

DEVICE, METHOD FOR PRODUCING THE DEVICE, CHAMBER DEVICE AND TRANSFER DEVICE

Title (de)

VORRICHTUNG, VERFAHREN ZUM HERSTELLEN DER VORRICHTUNG, KAMMERVORRICHTUNG UND BERTRAGERVORRICHTUNG

Title (fr)

DISPOSITIF, PROCEDE POUR PRODUIRE LEDIT DISPOSITIF ; DISPOSITIF DE CHAMBRE ET DISPOSITIF DE TRANSFERT

Publication

EP 1690025 B1 20170503 (DE)

Application

EP 04804690 A 20041206

Priority

- EP 2004053285 W 20041206
- DE 10356848 A 20031205

Abstract (en)

[origin: WO2005054725A1] A transfer device, which transfers a displacement of an actuator, particularly for an injection valve, has a housing (5) comprising a first recess inside of which a first and a second plunger (6, 7) are displaceably mounted. The first and second plunger (6, 7) are actively connected via at least one transfer chamber (10, 11) by means of a fluid. The active connection causes the second plunger (7) to be displaced when the first plunger (6) is moved and vice versa. The transfer chamber (10) is hydraulically coupled via a sealing gap (21) to a compensating chamber (22) that compensates for, in a delayed manner, the pressure differences between the transfer chamber (10, 11) and the compensating chamber (22). The transfer device also comprises a chamber device with a chamber that is the compensating chamber (22), with a chamber housing that is the housing (5), and with a plunger that is the first plunger (6). The chamber device comprises a device with a first body, which has a recess, a second body, which is introduced into the recess, and with an elastomer (50), which is placed in the recess between the first and second body whereby, in this area, closing and sealing the space between the first and second body. The elastomer (50) has a first groove (61) extending at least partially along the recess while located at distance from the wall of the recess.

IPC 8 full level

F16J 15/32 (2016.01); **F02M 45/02** (2006.01); **F02M 51/06** (2006.01); **F02M 59/46** (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01); **F16J 15/56** (2006.01)

CPC (source: EP US)

F02M 51/0603 (2013.01 - EP US); **F02M 61/167** (2013.01 - EP US); **F02M 45/02** (2013.01 - EP US); **F02M 2200/16** (2013.01 - EP US); **F02M 2200/703** (2013.01 - EP US); **F02M 2200/704** (2013.01 - EP US); **F02M 2200/9015** (2013.01 - EP US)

Citation (examination)

US 4813601 A 19890321 - SCHWERDT PAUL [DE], et al

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2005054725 A1 20050616; CN 100523568 C 20090805; CN 1890493 A 20070103; EP 1690025 A1 20060816; EP 1690025 B1 20170503; JP 2007515604 A 20070614; US 2007241295 A1 20071018; US 7726625 B2 20100601

DOCDB simple family (application)

EP 2004053285 W 20041206; CN 200480036038 A 20041206; EP 04804690 A 20041206; JP 2006541955 A 20041206; US 59619904 A 20041206