

Title (en)  
ELECTROMAGNETIC ACTUATOR DEVICE

Title (de)  
ELEKTROMAGNETISCHE AKTUATORVORRICHTUNG

Title (fr)  
DISPOSITIF ACTIVATEUR ÉLECTROMAGNÉTIQUE

Publication  
**EP 2370980 A1 20111005 (DE)**

Application  
**EP 09799245 A 20091125**

Priority  
• EP 2009008371 W 20091125  
• DE 202008015980 U 20081203

Abstract (en)  
[origin: WO2010063394A1] The invention relates to an electromagnetic actuator device having a core unit (10) comprising coil means (18) designed to cooperate with armature units (20, 22) displaceably guided relative to the core unit in response to current applied to the coil means, wherein the core unit is designed to cooperate with a plurality of spatially separated plunger units (20, 22) of the armatures so that an electromagnetic interaction takes place with the plurality of plunger units in response to current applied to a coil of the coil means.

IPC 8 full level  
**H01F 7/16** (2006.01); **F01L 13/00** (2006.01)

CPC (source: EP US)  
**H01F 7/1638** (2013.01 - US); **H01F 7/1646** (2013.01 - EP US); **F01L 2013/0052** (2013.01 - EP US); **F01L 2820/031** (2013.01 - EP US); **H01F 7/081** (2013.01 - EP US); **H01F 2007/1669** (2013.01 - EP US); **H01F 2007/1684** (2013.01 - EP US); **H01F 2007/1692** (2013.01 - EP US)

Citation (search report)  
See references of WO 2010063394A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**DE 202008015980 U1 20100429**; CN 102239531 A 20111109; CN 102239531 B 20150722; EP 2370980 A1 20111005; EP 2370980 B1 20120815; US 2011267159 A1 20111103; US 8729992 B2 20140520; WO 2010063394 A1 20100610

DOCDB simple family (application)  
**DE 202008015980 U 20081203**; CN 200980148488 A 20091125; EP 09799245 A 20091125; EP 2009008371 W 20091125; US 200913131080 A 20091125