

Title (en)  
Double action electromagnetic actuator

Title (de)  
Doppeltwirkender elektromagnetischer Aktor

Title (fr)  
Acteur électromagnétique à double effet

Publication  
**EP 1953773 B1 20170301 (DE)**

Application  
**EP 08001443 A 20080125**

Priority  
DE 102007005434 A 20070130

Abstract (en)  
[origin: EP1953773A2] The double acting electromagnetic actor (1) has an armature (2) which is arranged in the coil (71) with permanent magnets (22,25) that are magnetized in axial direction. A central disc (23) is positioned between the permanent magnets in which the armature and the coil in axial direction areas (7) are magnetized stronger or easy. A weak or non-magnetized area (8) is formed between the permanent magnets. The armature is supported in a pressure sealed pole tube (10) that is arranged in the coil.

IPC 8 full level  
**H01F 7/08** (2006.01); **F16K 31/08** (2006.01); **H01F 7/13** (2006.01); **H01F 7/16** (2006.01)

CPC (source: EP US)  
**H01F 7/081** (2013.01 - EP US); **H01F 7/13** (2013.01 - EP US); **H01F 7/1615** (2013.01 - EP US); **H01F 2007/085** (2013.01 - EP US)

Cited by  
ITRE20130017A1; DE102013010833A1; US9941042B2; EP3014635B1

Designated contracting state (EPC)  
DE GB IT

DOCDB simple family (publication)  
**EP 1953773 A2 20080806; EP 1953773 A3 20130821; EP 1953773 B1 20170301**; DE 102007005434 A1 20080731;  
US 2008180200 A1 20080731

DOCDB simple family (application)  
**EP 08001443 A 20080125**; DE 102007005434 A 20070130; US 1080208 A 20080130