

Title (en)  
SOLENOID ARRANGEMENT AND VALVE ARRANGEMENT

Title (de)  
HUBMAGNETANORDNUNG UND VENTILANORDNUNG

Title (fr)  
SYSTÈME D ÉLECTROAIMANT DE LEVAGE ET SYSTÈME DE SOUPAPE

Publication  
**EP 2308064 A1 20110413 (DE)**

Application  
**EP 09777302 A 20090720**

Priority  
• EP 2009005250 W 20090720  
• DE 102008035332 A 20080729

Abstract (en)  
[origin: US8757586B2] A solenoid arrangement comprises a pole tube which is axially subdivided into a pole core section, a transition section, and a tube section. A magnetic flux between the pole core section and the tube section is interrupted by the transition section. An armature is movably guided in the pole tube and has, at its end facing the pole core section, a flange which axially projects from an end face. According to the invention, the pole core section has a stepped depression into which the armature can plunge and which, starting from the transition section, is subdivided into an annular collar, a shoulder, and a notch which is set back axially and radially. An axial dimension of the collar exceeds an axial dimension of the flange.

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

CPC (source: EP US)  
**H01F 7/13** (2013.01 - EP US); **H01F 7/1607** (2013.01 - EP US); **H01F 2007/085** (2013.01 - EP US); **H01F 2007/1661** (2013.01 - EP US)

Cited by  
DE102013218766A1

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

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**US 2011147629 A1 20110623; US 8757586 B2 20140624**; AT E547796 T1 20120315; CN 102113067 A 20110629; CN 102113067 B 20130227; DE 102008035332 A1 20100204; EP 2308064 A1 20110413; EP 2308064 B1 20120229; WO 2010012394 A1 20100204

DOCDB simple family (application)  
**US 200913056463 A 20090720**; AT 09777302 T 20090720; CN 200980129710 A 20090720; DE 102008035332 A 20080729; EP 09777302 A 20090720; EP 2009005250 W 20090720