

Title (en)  
Plunger device

Title (de)  
Tauchanker-Vorrichtung

Title (fr)  
Dispositif plongeur

Publication  
**EP 1383144 B1 20091202 (DE)**

Application  
**EP 03015303 A 20030707**

Priority  
DE 10232661 A 20020718

Abstract (en)  
[origin: EP1383144A1] The device has an armature with a core (3) and an angled armature plate (4). The armature has a first element (5) with a first core part (3a) and first plate part (4a) and a second element (6) with a second core part (3b) and second plate part (4b). The first and second armature core parts are assembled to form the core in at least double-walled form and the first and second plate parts are assembled to form the armature plate in single wall form.

IPC 8 full level  
**H01F 7/16** (2006.01); **H01H 71/24** (2006.01); **H01F 3/08** (2006.01); **H01H 50/20** (2006.01); **H01H 50/46** (2006.01)

CPC (source: EP)  
**H01F 7/1623** (2013.01); **H01H 71/2463** (2013.01); **H01F 3/08** (2013.01); **H01F 7/1607** (2013.01); **H01H 50/20** (2013.01); **H01H 50/46** (2013.01)

Cited by  
FR2883098A1; EP2426690A1; EP3493236A1; CN109841461A; US10535484B2; US9343258B2; WO2013075726A1; WO2012028328A1; WO2009053534A1

Designated contracting state (EPC)  
AT DE FR IT

DOCDB simple family (publication)  
**EP 1383144 A1 20040121**; **EP 1383144 B1 20091202**; AT E450872 T1 20091215; DE 10232661 A1 20040212; DE 10232661 B4 20050908; DE 50312177 D1 20100114

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**EP 03015303 A 20030707**; AT 03015303 T 20030707; DE 10232661 A 20020718; DE 50312177 T 20030707