

Title (en)  
INTEGRAL ADJUSTING MEMBER AND METHOD FOR MAKING SAME

Title (de)  
INTEGRIERTES EINSTELLUNGSELEMENT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)  
ORGANE RÉGULATEUR MONOBLOC ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 2257856 B1 20161123 (FR)**

Application  
**EP 09722049 A 20090313**

Priority  

- EP 2009053000 W 20090313
- EP 08153101 A 20080320
- EP 09722049 A 20090313

Abstract (en)  
[origin: EP2104008A1] The regulator (41') has a balance (43') co-operating with a spiral (51') formed in a silicon based material layer. The balance has a balance spring that is co-axially mounted on a collet (55') and comprises a silicon dioxide based part. The collet comprises an extension part projecting from the spring and formed in a silicon based material layer, where the extension part is fixed on the balance. The balance has a hole increasing an inner diameter of the collet to receive a balance staff (49). An independent claim is also included for a method for fabricating a monobloc regulator.

IPC 8 full level  
**G04B 17/06** (2006.01); **G04D 3/00** (2006.01)

CPC (source: EP KR US)  
**G04B 17/063** (2013.01 - EP KR US); **G04B 17/066** (2013.01 - KR); **G04D 3/0038** (2013.01 - EP KR US)

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 TR

DOCDB simple family (publication)  
**EP 2104008 A1 20090923**; CN 101978326 A 20110216; CN 101978326 B 20130102; EP 2257856 A1 20101208; EP 2257856 B1 20161123; HK 1154086 A1 20120420; JP 2011526676 A 20111013; JP 5134137 B2 20130130; KR 20100135735 A 20101227; RU 2010142920 A 20120427; RU 2473947 C2 20130127; TW 201001106 A 20100101; TW I474138 B 20150221; US 2011103197 A1 20110505; US 8523426 B2 20130903; WO 2009115463 A1 20090924

DOCDB simple family (application)  
**EP 08153101 A 20080320**; CN 200980110003 A 20090313; EP 09722049 A 20090313; EP 2009053000 W 20090313; HK 11108314 A 20110809; JP 2011500162 A 20090313; KR 20107019732 A 20090313; RU 2010142920 A 20090313; TW 98109208 A 20090320; US 93352809 A 20090313