

Title (en)  
PROCESS OF MANUFACTURING OF A COMPOSITE BALANCE

Title (de)  
HERSTELLUNGSVERFAHREN EINER KOMPOSITEN UNRUH

Title (fr)  
PROCÉDÉ DE FABRICATION D'UN BALANCIER COMPOSITE

Publication  
**EP 2257855 A1 20101208 (FR)**

Application  
**EP 09721945 A 20090313**

Priority  

- EP 2009053001 W 20090313
- EP 08153093 A 20080320
- EP 09721945 A 20090313

Abstract (en)  
[origin: EP2104005A1] The balance (45') has a hub (39') connected to a fellow (37') by arms (40'-43'), where composite balance is formed in a silicon based layer. The fellow has a crenated ring (23') whose density is higher than that of the silicon based layer for increasing inertia of the balance. The ring is mounted in a recess formed in one of main surfaces of the fellow. A cylinder (25') is mounted on one of main surfaces of the hub, where the cylinder and the crenated ring are formed from metallic material. An independent claim is also included for a method for fabricating a composite balance.

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); **G04D 3/0038** (2013.01 - EP KR US); **G04D 3/0069** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2009115464A1

Designated contracting state (EPC)  
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Designated extension state (EPC)  
AL BA RS

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**EP 08153093 A 20080320**; CN 200980110011 A 20090313; EP 09721945 A 20090313; EP 12164386 A 20090313; EP 2009053001 W 20090313; HK 11108315 A 20110809; JP 2011500163 A 20090313; JP 2013000879 A 20130108; JP 2013127296 A 20130618; KR 20107020597 A 20090313; RU 2010142923 A 20090313; TW 98109209 A 20090320; US 93353809 A 20090313