

Title (en)  
COUPLED RESONATOR FOR REGULATING SYSTEM

Title (de)  
GEKOPPELTER RESONATOR FÜR EIN REGULIERUNGSSYSTEM

Title (fr)  
RESONATEUR COUPLE POUR SYSTEME REGLANT

Publication  
**EP 2008160 A1 20081231 (FR)**

Application  
**EP 07727747 A 20070403**

Priority  

- EP 2007053276 W 20070403
- EP 06007397 A 20060407
- EP 07727747 A 20070403

Abstract (en)  
[origin: EP1843227A1] The resonator has a low frequency hairspring (1) and a high frequency tuning fork (2) connected mechanically in a permanent manner. The hairspring and the tuning fork are made of identical or different material e.g. metal, alloy or amorphous material, monocrystalline or polycrystalline material such as glass, quartz and silicon. The tuning fork comprising two arms (4, 6) that are connected by a steady pin (8).

IPC 8 full level  
**G04C 5/00** (2006.01); **G04B 17/06** (2006.01)

CPC (source: EP KR US)  
**G04B 17/066** (2013.01 - EP KR US); **G04C 5/00** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2007115985A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1843227 A1 20071010**; AT E472756 T1 20100715; CN 101416127 A 20090422; CN 101416127 B 20120321; DE 602007007462 D1 20100812; EP 2008160 A1 20081231; EP 2008160 B1 20100630; HK 1131446 A1 20100122; JP 2009533917 A 20090917; JP 4982556 B2 20120725; KR 20080111523 A 20081223; TW 200746628 A 20071216; US 2010283556 A1 20101111; US 7889028 B2 20110215; WO 2007115985 A1 20071018

DOCDB simple family (application)  
**EP 06007397 A 20060407**; AT 07727747 T 20070403; CN 200780012073 A 20070403; DE 602007007462 T 20070403; EP 07727747 A 20070403; EP 2007053276 W 20070403; HK 09109548 A 20091015; JP 2009504691 A 20070403; KR 20087027085 A 20081105; TW 96111911 A 20070403; US 29465207 A 20070403