Title (en)
MAGNETIC SCREENING FOR TIMEPIECE HAIRSPRING

Title (de)
MAGNETISCHE ABSCHIRMUNG FÜR DIE SPIRALFEDER EINER UHR

Title (fr)
BLINDAGE MAGNETIQUE POUR SPIRAL DE PIECE D'HORLOGERIE

Publication
EP 2652560 A1 20131023 (FR)

Application
EP 11793747 A 20111205

Priority
- EP 10195192 A 20101215
- EP 2011071753 W 20111205
- EP 11793747 A 20111205

Abstract (en)
[origin: EP2466396A1] The device has a balance (2) made of ferromagnetic material i.e. amorphous metal alloy, where diameter (D) of the balance is two times greater than diameter of a hairspring of a timepiece. The balance is surface-treated by an anti-corrosion agent. The balance is provided with a set of flattened arms (3) covering a surface that is equal to or greater than one-fourth of a disk defined by a casing ring (4). The balance comprises another set of arms that is mounted on the top of the casing ring.

IPC 8 full level
G04B 17/06 (2006.01); **G04B 17/22** (2006.01); **G04B 43/00** (2006.01)

CPC (source: EP US)
G04B 17/063 (2013.01 - EP US); **G04B 17/20** (2013.01 - US); **G04B 17/22** (2013.01 - US); **G04B 17/222** (2013.01 - US); **G04B 17/227** (2013.01 - EP US); **G04B 43/00** (2013.01 - US); **G04B 43/002** (2013.01 - EP US)

Citation (search report)
See references of WO 2012080021A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2466396 A1 20120620; CN 103261976 A 20130821; CN 103261976 B 20160511; EP 2652560 A1 20131023; EP 2652560 B1 20191113; HK 1188488 A1 20140502; JP 2014508918 A 20140410; JP 5815043 B2 20151117; RU 2013132473 A 20150120; RU 2545488 C2 20150410; US 2013265859 A1 20131010; US 9494921 B2 20161115; WO 2012080021 A1 20120621

DOCDB simple family (application)
EP 10195192 A 20101215; CN 201180060137 A 20111205; EP 11793747 A 20111205; EP 2011071753 W 20111205; HK 14101518 A 20140218; JP 2013543637 A 20111205; RU 2013132473 A 20111205; US 201113993645 A 20111205