

Title (en)

Magnetischer Schutz für eine Spiralfeder einer Uhr

Title (de)

Magnetic protection for hairspring in a timepiece

Title (fr)

Protection magnétique d'un spiral de pièce d'horlogerie

Publication

EP 2287683 B1 20121031 (FR)

Application

EP 09168003 A 20090817

Priority

EP 09168003 A 20090817

Abstract (en)

[origin: EP2287683A1] The device has a disk with high magnetic permeability, arranged in a plane parallel to a plane of a balance spring. The disk and the balance spring are mounted coaxially with each other while allowing magnetic field to reach the balance spring in a direction of the magnetic field. A ring (3) with the high magnetic permeability is mounted on the disk. The ring is arranged around the balance spring in a coaxial manner. The disk is made to fit with a set of branches (4) made of the same material as the disk and arranged in a star-form.

IPC 8 full level

G04B 17/06 (2006.01); **G04B 17/28** (2006.01); **G04B 43/00** (2006.01); **G04C 3/04** (2006.01)

CPC (source: EP KR US)

G04B 17/06 (2013.01 - EP KR US); **G04B 17/285** (2013.01 - EP KR US); **G04B 43/007** (2013.01 - EP KR US)

Cited by

EP2607969A1; US9004747B2

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 SM TR

DOCDB simple family (publication)

EP 2287683 A1 20110223; **EP 2287683 B1 20121031**; CN 101995814 A 20110330; CN 101995814 B 20150218; HK 1155822 A1 20120525; JP 2011039061 A 20110224; JP 5391163 B2 20140115; KR 20110018279 A 20110223; US 2011038234 A1 20110217; US 8337078 B2 20121225

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EP 09168003 A 20090817; CN 201010502900 A 20100817; HK 11109885 A 20110920; JP 2010182193 A 20100817; KR 20100079379 A 20100817; US 85707510 A 20100816