

Title (en)
HAIRSPRING-COLLET ASSEMBLY FOR A TIMEPIECE MOVEMENT

Title (de)
SPIRALFEDER-SPIRALROLLEGESAMTHEIT FÜR EIN UHRWERK

Title (fr)
ENSEMBLE SPIRAL-VIOLE POUR MOUVEMENT D'HORLOGERIE

Publication
EP 2018601 A2 20090128 (FR)

Application
EP 07734401 A 20070426

Priority
• IB 2007001083 W 20070426
• EP 06010169 A 20060517
• EP 07734401 A 20070426

Abstract (en)
[origin: EP1857891A1] The assembly has a spiral (3) attached to a collet (1) by its internal end, where the collet is mounted on a spindle (2) and the assembly is made of material with the base of silicon. The collet has an external contour defining stops (10a-10c). The spiral has internal turns supported on the stops during an impact before an elastic limit of the internal turn is exceeded. The stops are located at respective distances (Ra-Rc) from the center (O) of the spindle, where the distances are increased in a direction (D) of the spiral from a spiral/collet junction point (8).

IPC 8 full level
G04B 17/34 (2006.01); **G04B 43/00** (2006.01)

CPC (source: EP US)
G04B 17/345 (2013.01 - EP US); **G04B 43/002** (2013.01 - EP US)

Citation (search report)
See references of WO 2007132306A2

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 1857891 A1 20071121; CN 101375218 A 20090225; CN 101375218 B 20110629; EP 2018601 A2 20090128; EP 2018601 B1 20181205; JP 2009537813 A 20091029; JP 5235869 B2 20130710; US 2009135679 A1 20090528; US 7758237 B2 20100720; WO 2007132306 A2 20071122; WO 2007132306 A3 20080417

DOCDB simple family (application)
EP 06010169 A 20060517; CN 200780003196 A 20070426; EP 07734401 A 20070426; IB 2007001083 W 20070426; JP 2009510564 A 20070426; US 8566307 A 20070426