

Title (en)

Tri-axial tourbillon for timepieces, especially for wristwatches

Title (de)

Dreiaxsiges Tourbillon für Uhren, insbesondere Armbanduhren

Title (fr)

Tourbillon tri-axial pour pièce d'horlogerie, notamment montre-bracelet

Publication

EP 1574916 A3 20100728 (FR)

Application

EP 05004288 A 20050228

Priority

CH 3942004 A 20040309

Abstract (en)

[origin: EP1574916A2] The tourbillon has one frame (A) containing a balance (1), an escape wheel (2) and an escape pinion (3). The frame is in rotation along one axis (A1) and assembled in another frame (B) rotating around another axis (A2). The frame (B) is assembled in a third frame (C) rotating around a third axis (A3) and fixed with respect to a clock piece. The three axes (A1-A3) are perpendicular to each other.

IPC 8 full level

G04B 17/06 (2006.01); **G04B 17/28** (2006.01)

CPC (source: EP US)

G04B 17/285 (2013.01 - EP US)

Citation (search report)

- [X] CH 693832 A5 20040227 - GUEBELIN AG [CH]
- [XP] WO 2004077171 A2 20040910 - PRESCHER THOMAS [CH], et al
- [X] RICHARD GOOD: "The first triple tourbillon", HOROLOGICAL JOURNAL, HOROLOGICAL JOURNAL. ASHFORD, GB, vol. 125, no. 10, 1 April 1983 (1983-04-01), pages 15 - 17, XP002124087, ISSN: 0018-5108

Cited by

WO2014060346A1; WO2013004782A1; CH707079A1; CH709178A1; US11573530B2; CH703788B1; CH705244A1; CN103620510A; EP3671363A1; US9268308B2; US8956041B2

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 MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1574916 A2 20050914; EP 1574916 A3 20100728; CH 699838 B1 20100514; CN 1667527 A 20050914; CN 1673899 A 20050928; JP 2005257686 A 20050922; RU 2005106174 A 20060810; RU 2333521 C2 20080910; SG 118307 A1 20060127; US 2005201209 A1 20050915; US 7160026 B2 20070109

DOCDB simple family (application)

EP 05004288 A 20050228; CH 3942004 A 20040309; CN 200510053663 A 20050309; CN 200510056472 A 20050322; JP 2005065465 A 20050309; RU 2005106174 A 20050304; SG 200501476 A 20050309; US 7441905 A 20050308