

Title (en)
Balance for a watch mechanism

Title (de)
Unruh für Uhrwerk

Title (fr)
Balancier pour mouvement d'horlogerie

Publication
EP 1562087 B1 20080521 (FR)

Application
EP 05000326 A 20050110

Priority
• EP 05000326 A 20050110
• EP 04002540 A 20040205

Abstract (en)
[origin: US2005174893A1] In order to make a wheel-shaped balance (1) lighter, while maintaining sufficient mechanical resistance and good dimensional stability as regards temperature variations, the fellow (3) and the arms (2) of the balance are made of titanium or a titanium-based alloy. This enables a sprung balance oscillator to be made with a larger diameter than normal for the same frequency, or having a higher frequency with the same dimensions as a usual oscillator.

IPC 8 full level
G04B 17/06 (2006.01)

CPC (source: EP US)
G04B 17/063 (2013.01 - EP US)

Cited by
CH703574A3; CN107505826A; CN103676600A; CH703576A3; WO2012127019A1; EP2410386A1; WO2012010410A1; EP2395402A1; EP2410387A1; US8414184B2; EP2677369A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
US 2005174893 A1 20050811; AT E396430 T1 20080615; CN 1652046 A 20050810; CN 1652046 B 20100526; DE 602005006858 D1 20080703; EP 1562087 A1 20050810; EP 1562087 B1 20080521; HK 1076159 A1 20060106; JP 2005221498 A 20050818; JP 4537219 B2 20100901; SG 113616 A1 20050829

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US 4510205 A 20050131; AT 05000326 T 20050110; CN 200510005167 A 20050128; DE 602005006858 T 20050110; EP 05000326 A 20050110; HK 05108119 A 20050916; JP 2005026351 A 20050202; SG 200500872 A 20050120