

Title (en)  
CLOCK MOVEMENT HAVING A BALANCE AND A HAIRSPRING

Title (de)  
UHRWERK MIT EINER WAAGE UND SPIRALFEDER

Title (fr)  
MOUVEMENT D'HORLOGERIE A BALANCIER-SPIRAL

Publication  
**EP 2917787 A2 20150916 (FR)**

Application  
**EP 13812065 A 20131022**

Priority  
• CH 22822012 A 20121107  
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Abstract (en)  
[origin: WO2014072781A2] The invention relates to a clock movement which includes a balance and hairspring oscillator and an escapement engaging with the oscillator. The outer coil of the hairspring includes a stiffened portion (9") arranged such as to at least partially compensate for the variation in the operation of the movement in accordance with the oscillatory amplitude of the balance due to the escapement. The hairspring also includes at least one of the following features: a) a distance (R') between the inner end of the hairspring and the centre of rotation of the hairspring smaller than 400 µm, b) a Grossmann curve (10) defined by the inner coil of the hairspring, and c) a stiffened portion defined by the inner coil of the hairspring.

IPC 8 full level  
**G04B 17/06** (2006.01)

CPC (source: EP US)  
**G04B 17/06** (2013.01 - US); **G04B 17/066** (2013.01 - EP US); **G04B 17/26** (2013.01 - EP US)

Citation (search report)  
See references of WO 2014072781A2

Cited by  
EP4293428A1; WO2023242746A1

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