Title (en)
Hairspring for sprung balance

Title (de)
Spiralfeder für Unruh-Spiralfeder

Title (fr)
Spiral pour résonateur balancier-spiral

Publication
EP 2523053 B1 20211222 (FR)

Application
EP 12180170 A 20090724

Priority
- EP 09405126 A 20090724
- EP 08405188 A 20080729
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Abstract (en)
[origin: EP2151722A1] The hairspring has two plates (1a, 1b) that are integrated with respect to each other by their respective ends and coplanar, where the hairspring is made of single-crystal silicon or quartz. The plates are wound into spirals with an angular offset neutralizing lateral forces exerted on a central axle when one of the ends of each plate is angularly displaced around the central axle with respect to the other end of each plate. Thickness and height of the plates are variable, and the single-crystal silicon is covered with an amorphous silicon dioxide layer.

IPC 8 full level
G04B 17/06 (2006.01); **G04B 17/20** (2006.01)

CPC (source: EP US)
G04B 17/066 (2013.01 - EP US); **G04B 17/20** (2013.01 - EP US)

Designated contracting state (EPC)
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DOCDB simple family (publication)
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