

Title (en)
Oscillating mechanism with mobile, resilient pivot for energy transmission

Title (de)
Schwingsmechanismus mit elastischem und beweglichen Zapfen zur Energieübertragung

Title (fr)
Mécanisme oscillant à pivot élastique et mobile de transmission d'énergie

Publication
EP 2894520 A3 20160622 (FR)

Application
EP 15153532 A 20110704

Priority
• CH 11982010 A 20100719
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• EP 15153532 A 20110704

Abstract (en)
[origin: WO2012010408A1] Oscillating mechanism (1) for a clock movement (1000), comprising a first rigid element (200) and a second rigid element (600), each one designed to be fixed to a different element of said movement (1000) and of which one is able to move with respect to the other and pivots about an axis (D). Said oscillating mechanism (1), which is a one-piece, flexible, variable-geometry mechanism, comprises first elastic return means (300) providing an elastic connection between said first rigid element (200) and an intermediate rigid element (400), and comprises at least second elastic return means (500) producing an elastic connection between said intermediate rigid element (400) and said second rigid element (600), and said first rigid element (200), said first elastic return means (300), said intermediate rigid element (400), said second elastic return means (500), and said second rigid element (600) are coplanar on a plane (P) and designed to deform on said plane (P).

IPC 8 full level
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G04B 13/025 (2013.01 - EP US); **G04B 15/00** (2013.01 - EP US); **G04B 15/14** (2013.01 - EP US); **G04B 17/00** (2013.01 - EP US); **G04B 17/02** (2013.01 - EP US); **G04B 17/045** (2013.01 - EP); **G04B 17/063** (2013.01 - EP US); **G04B 17/20** (2013.01 - EP US); **G04B 17/26** (2013.01 - EP US); **G04B 17/28** (2013.01 - EP US); **G04B 17/285** (2013.01 - EP US); **G04F 7/0823** (2013.01 - EP US)

Citation (search report)
• [A] EP 2037335 A2 20090318 - ENZLER AUGUST [CH]
• [A] EP 2104008 A1 20090923 - NIVAROX SA [CH]
• [A] EP 1013949 A1 20000628 - SYSMELC SA [CH]
• [A] CH 479105 A 19691114 - BALANCIERS REUNIES SA [CH]
• [A] CH 474101 A 19690615 - BALANCIERS REUNIES SA [CH]
• [A] CH 166267 A 19331231 - SCHAAD ERNEST [ZA]
• [A] CH 343897 A 19591231 - ROLEX MONTRES [CH]
• [A] CH 6659 A 18931230 - LAMBERT ACHILLE [CH]
• [A] DE 2714020 A1 19781012 - BEITER WERNER
• [A] EP 1580624 A2 20050928 - PIERRE KUNZ SA [CH]
• [A] FR 2641351 A1 19900706 - ALCATEL BUSINESS SYSTEMS [FR]

Cited by
EP3502784A1; FR3048790A1; EP3147725A1; CN106557009A; EP3327515A1; CN109983410A; EP4012505A1; EP4276543A1; US9921547B2; EP3598243A1; WO2017157712A1; TWI709009B; US11467537B2; US11487245B2; US11493882B2; US11520289B2; US11619909B2; US11675312B2; WO2018095595A1; WO2018095594A1; WO2018095592A1; WO2018095997A3; WO2018095596A3; WO2018103978A3; WO2018099616A3; WO2018095593A3

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DOCDB simple family (application)
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