

Title (en)  
Constant force flexible anchor

Title (de)  
Flexibler Anker mit konstanter Kraft

Title (fr)  
Ancre flexible à force constante

Publication  
**EP 2706416 A1 20140312 (FR)**

Application  
**EP 12183559 A 20120907**

Priority  
EP 12183559 A 20120907

Abstract (en)  
The assembly (1) has an anchor head (2) that is designed to collaborate with an escapement wheel (20) and a fork (6) that is designed to collaborate with a balance spring (30). An angular position of the fork with respect to the head is variable. A fixing blade (10) provides only permanent mechanical connection between the head and the fork. The head comprises an arm with a bearing and stop surface, and another bearing and stop surface that comprises another arm having the fork. Independent claims are also included for the following: (1) an escapement mechanism (2) a clock element.

Abstract (fr)  
Ancre (1) comportant une tête (2) agencée pour coopérer avec une roue d'échappement (20), et une fourchette (6) agencée pour coopérer avec un balancier (30). La position angulaire de ladite fourchette (6) par rapport à ladite tête (2) est variable. Une lame (10) flexible assure seule la liaison mécanique permanente entre ladite tête (2) et ladite fourchette (6). Mécanisme d'échappement (100), comportant une platine (40), une roue d'échappement (20) et un balancier (30) coopérant avec une dite ancre (1). Ladite lame flexible (10) est montée en précontrainte en flambage entre ladite tête (2) et ladite fourchette (6), ladite ancre (1) constituant un système bistable comportant au moins deux états stables et deux états métastables.

IPC 8 full level  
**G04B 15/08** (2006.01); **G04B 15/10** (2006.01); **G04B 15/14** (2006.01)

CPC (source: CN EP US)  
**G04B 15/08** (2013.01 - EP US); **G04B 15/10** (2013.01 - EP US); **G04B 15/14** (2013.01 - CN EP US)

Citation (applicant)  
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• EP 2455821 A1 20120523 - NIVAROX SA [CH]  
• EP 1967919 A1 20080910 - ETA SA MFT HORLOGERE SUISSE [CH]

Citation (search report)  
• [X] FR 2928015 A1 20090828 - LENOBLE JEAN PAUL [FR]  
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Designated contracting state (EPC)  
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Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2706416 A1 20140312; EP 2706416 B1 20151118**; CN 104769508 A 20150708; CN 104769508 B 20180413; CN 107390494 A 20171124; CN 107390494 B 20190521; EP 2893403 A1 20150715; EP 2893403 B1 20190828; HK 1212047 A1 20160603; JP 2015531476 A 20151102; JP 5959750 B2 20160802; KR 101775249 B1 20170905; KR 20150053791 A 20150518; US 2015248112 A1 20150903; US 2017131683 A1 20170511; US 9594349 B2 20170314; US 9927772 B2 20180327; WO 2014037319 A1 20140313; WO 2014037319 A4 20140508

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**EP 12183559 A 20120907**; CN 201380058120 A 20130903; CN 201710730116 A 20130903; EP 13756165 A 20130903; EP 2013068130 W 20130903; HK 15112787 A 20151229; JP 2015530359 A 20130903; KR 20157008752 A 20130903; US 201314426616 A 20130903; US 201715409037 A 20170118