

Title (en)
TIMEPIECE DISPLAY MECHANISM WITH ELASTIC HAND

Title (de)
UHR-ANZEIGEMECHANISMUS MIT ELASTISCHEM ZEIGER

Title (fr)
MÉCANISME D’AFFICHAGE D’HORLOGERIE À AIGUILLE ÉLASTIQUE

Publication
EP 3764168 A1 20210113 (FR)

Application
EP 20176726 A 20200527

Priority

- EP 19185917 A 20190712
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- EP 18186552 A 20180731

Abstract (en)

[origin: WO2020025423A1] Disclosed is a variable timepiece display mechanism (10) comprising an elastic hand (1) with a drive barrel (2) secured to a single-piece flexible blade (3) comprising flexible segments (5; 5A; 5B) adjoining at apexes (6), a first (5A) of said segments extending between the first barrel (2) and a first apex (6), the mechanism (10) further comprising drive means (11) for pivoting the barrel (2), and means (12) for stressing the first flexible segment (5) in order to vary the position of the first apex (6) relative to the output pin (D) according to the forces applied to the flexible blade (3), said drive means (11) and/or said stressing means (12) comprising a first gear train (111) having a particular shape and/or a second gear train (131) having a particular shape for accelerating, stabilizing the speed of, or decelerating at least the barrel (2) over part of its angular travel.

Abstract (fr)

Mécanisme d’affichage (10) horloger à aiguille élastique (1) comportant des moyens d’entraînement, autour d’un axe (D), de canons (2 ; 4) montés aux extrémités d’une lame flexible (3), agencés pour déformer la lame flexible (3), comportant un mécanisme différentiel agissant sur le rouage d’entraînement du premier canon (2) et sur celui du deuxième canon (4) et qui comporte deux satellites (82 ; 84) pour l’entraînement respectif des canons (2 ; 4), et un châssis porte-satellite d’entrée (180) entraîné en rotation par des moyens moteurs pour l’entraînement de l’aiguille (1), et solidaire en rotation d’une came de régulation (801) dont la piste (802) comprend un front montant et un front descendant continu, le mécanisme d’affichage comporte un bras élastique (803), dont une extrémité distale coopère en permanence avec cette piste (802), dont le front montant soulève le bras élastique (803) et l’éloigne de l’axe de rotation de la came (801) pour consommer du couple, et dont le front descendant fait redescendre le bras élastique (803) vers l’axe de rotation de la came (801) pour restituer du couple au système.

IPC 8 full level
G04B 13/00 (2006.01); **G04B 19/04** (2006.01); **G04B 45/00** (2006.01)

CPC (source: CN EP US)

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Citation (applicant)

- EP 2863274 A1 20150422 - OMEGA SA [CH]
- EP 3159751 A1 20170426 - OMEGA SA [CH]
- EP 3605244 A1 20200205 - MONTRES BREQUET SA [CH]
- EP 3605243 A1 20200205 - MONTRES BREQUET SA [CH]

Citation (search report)

- [AD] EP 3605244 A1 20200205 - MONTRES BREQUET SA [CH]
- [A] CH 715211 A2 20200131 - MONTRES BREQUET SA [CH]
- [AD] EP 2863274 A1 20150422 - OMEGA SA [CH]

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