Title (en)

TIMEPIECE DISPLAY MECHANISM WITH ELASTIC NEEDLE

Title (de)

UHR-ANZEIGEMECHANISMUS MIT ELASTISCHEM ZEIGER

Title (fr)

MECANISME D'AFFICHAGE D'HORLOGERIE A AIGUILLE ELASTIQUE

Publication

EP 3605244 A1 20200205 (FR)

Application

EP 19185917 A 20190712

Priority

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) d'horlogerie à aiguille élastique (1) comportant des premiers (11) et des deuxièmes (13) moyens d'entraînement (11), autour d'un axe de sortie (D), d'un premier (2) et d'un deuxième (4) canons montés aux extrémités d'une lame flexible (3), et comportant un index d'affichage distant des canons, ces moyens d'entraînement (11 ; 13) étant agencés pour déformer la lame flexible (3), en faisant varier la position angulaire d'un canon par rapport à l'autre autour de l'axe de sortie (D), et pour faire varier la position radiale de l'index d'affichage par rapport à cet axe, ce mécanisme (10) comporte un premier différentiel (912) sur le rouage d'entraînement du premier canon (2) dont une entrée est constituée par une première came (92, 820), et un deuxième différentiel (914) sur le rouage d'entraînement du deuxième canon (4) et dont une entrée est constituée par une deuxième came (94, 810).

IPC 8 full level

G04B 13/00 (2006.01); **G04B 19/04** (2006.01); **G04B 45/00** (2006.01)

CPC (source: CN EP US)

G04B 9/005 (2013.01 - EP US); **G04B 13/001** (2013.01 - EP US); **G04B 13/007** (2013.01 - US); **G04B 13/008** (2013.01 - EP US); **G04B 13/021** (2013.01 - US); **G04B 19/02** (2013.01 - US); **G04B 19/04** (2013.01 - CN); **G04B 19/042** (2013.01 - CN US); **G04B 19/048** (2013.01 - EP US); **G04B 19/082** (2013.01 - EP US); **G04B 45/0061** (2013.01 - EP US); G04B 13/02 (2013.01 - US)

Citation (applicant)

- EP 2863274 A1 20150422 - OMEGA SA [CH]
- EP 3159751 A1 20170426 - OMEGA SA [CH]
- EP 18186552 A 20180731

Citation (search report)

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