

Title (en)
VARIABLE GEOMETRY TIMEPIECE DISPLAY MECHANISM WITH ELASTIC NEEDLE

Title (de)
UHR-ANZEIGEMECHANISMUS MIT VARIABLER GEOMETRIE UND ELASTISCHEN ZEIGER

Title (fr)
MECANISME D'AFFICHAGE D'HORLOGERIE A GEOMETRIE VARIABLE AVEC AIGUILLE ELASTIQUE

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EP 3605243 A1 20200205 (FR)

Application
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Priority
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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) variable d'horlogerie, comportant une aiguille élastique (1) avec un canon d'entraînement (2) solidaire d'une lame flexible (3) monobloc comportant des segments flexibles (5 ; 5A ; 5B) joints au niveau de sommets (6), dont un premier (5A) s'étend entre le premier canon (2) et un premier sommet (6), le mécanisme (10) comporte des moyens d'entraînement (11) en pivotement du canon (2), et des moyens (12) de mise sous contrainte du premier segment flexible (5) pour faire varier la position du premier sommet (6) par rapport à l'axe de sortie (D), en fonction des efforts appliqués à la lame flexible (3), ces moyens d'entraînement (11) et/ou ces moyens (12) de mise sous contrainte comportent un premier rouage de forme (111) et/ou un deuxième rouage de forme (131), pour accélérer ou stabiliser en vitesse ou ralentir au moins le canon (2) sur une partie de sa course angulaire.

IPC 8 full level
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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)
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• EP 3159751 A1 20170426 - OMEGA SA [CH]

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