

Title (en)
FLEXIBLE RESILIENT HAND

Title (de)
FLEXIBLE ELASTISCHE ZEIGER

Title (fr)
AIGULLE ELASTIQUE FLEXIBLE

Publication
EP 3159751 A1 20170426 (FR)

Application
EP 16198896 A 20131018

Priority
• EP 16198896 A 20131018
• EP 13189231 A 20131018

Abstract (en)
[origin: JP2015078983A] PROBLEM TO BE SOLVED: To provide a reliable and extremely robust indicator with a radial extension which is variable according to the position and control of the indicator.SOLUTION: A resilient timepiece hand 1 including a first drive pipe 2 integral with a flexible strip 3 is a single-piece component. The flexible strip 3 has a first segment between the first drive pipe 2 and a first tip 6, and the first tip 6 is located at a distance variable according to stress applied to the flexible strip 3, from the first drive pipe 2. A timepiece display mechanism includes a first drive pinion for driving the first drive pipe 2 of the resilient timepiece hand 1 about a pivot axis D, and a second pinion or a cam for applying stress to the resilient timepiece hand 1 to vary the position of at least one tip 6 of the resilient timepiece hand 1 with respect to the pivot axis D.

Abstract (fr)
Mécanisme d'affichage (10) d'horlogerie comportant une aiguille élastique (1) laquelle comporte un premier canon (2) d'entraînement solidaire d'une lame flexible (3), cette aiguille élastique (1) est monobloc, et la lame flexible (3) comporte au moins un premier segment (5) flexible entre le premier canon (2) et un premier sommet (6), et ce mécanisme d'affichage (10) comporte des premiers moyens d'entraînement (11) du premier canon (2) autour d'un axe de pivotement (D), et des seconds moyens (12) de mise sous contrainte d'au moins un premier segment (5) flexible de l'aiguille élastique (1), agencés pour faire varier la position d'au moins ce premier sommet (6) par rapport à l'axe de pivotement (D), ce premier sommet (6) étant à une distance variable du premier canon (2) en fonction des efforts appliqués à la lame flexible (3) par les seconds moyens (12) de mise sous contrainte. Montre (30) comportant un tel mécanisme d'affichage (10).

IPC 8 full level
G04B 19/04 (2006.01)

CPC (source: CH EP KR US)
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G04B 19/046 (2013.01 - EP US); **G04B 19/048** (2013.01 - CH EP US); **G04B 45/0061** (2013.01 - CH EP US); **G04B 19/02** (2013.01 - EP US);
G04B 45/00 (2013.01 - EP US)

Citation (applicant)
• JP 2011163914 A 20110825 - CITIZEN HOLDINGS CO LTD, et al
• JP S62104115 U 19870702 - MATSUMOTO SEIKI CO LTD [JP]

Citation (search report)
• [A] JP 2011163914 A 20110825 - CITIZEN HOLDINGS CO LTD, et al
• [A] JP S62104115 U 19870702 - MATSUMOTO SEIKI CO LTD [JP]
• [A] FR 2868556 A1 20051007 - CRABBE JEAN PAUL [FR], et al
• [A] JP S62239080 A 19871019 - NISHIHARA SHOKAI KK
• [A] US 4601585 A 19860722 - FARLEY BRENT L [US]

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EP4276544A1; EP3605244A1; EP3605243A1; WO2020025424A1; WO2020025423A1; WO2020025428A1; EP3764168A1; EP3764170A1; US11841685B2

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