

Title (en)

MECHANISM FOR DRIVING AN INDICATOR

Title (de)

MECHANISMUS ZUR ANSTEUERUNG EINES INDIKATORS

Title (fr)

MECANISME D'ENTRAINEMENT D'UN INDICATEUR

Publication

EP 2776894 A1 20140917 (FR)

Application

EP 12781355 A 20121109

Priority

- CH 18032011 A 20111111
- EP 2012072229 W 20121109

Abstract (en)

[origin: WO2013068519A1] The invention relates to a mechanism for driving an indicator of information that is connected to a timepiece movement and varies according to a plurality of periods, during each of which said information changes, step by step, to a maximum value that varies between n and $n-m$. Said mechanism includes a drive wheel (8) including a first set of gear teeth (10) arranged such as to advance by n steps per period, m retractable teeth (20, 21, 22) borne by the drive wheel (8), encoding cams corresponding to the retractable teeth (20, 21, 22), each encoding cam corresponding to at least one maximum value $n-x$ of the information, x being between 1 and m , for a period, and a drive means set up such as to provide adequate rotation speed to the encoding cams relative to the drive wheel (8) in such a manner that, when the information reaches a maximum value $n-x$ for a period, x retractable teeth (20, 21, 22) pass in an operative position and then return to an inoperative position, the drive wheel (8) advancing by x additional steps for said period. Each retractable tooth (20, 21, 22) includes a pin (30, 38, 42), and the corresponding encoding cam (26, 32, 34), corresponding to a maximum value $n-x$ of the information, includes a track (28, 36, 40) wherein the pin (30, 38, 42) moves. The track (28, 36, 40) has a configuration that is appropriate for the retractable tooth (20, 21, 22) to remain in the inoperative position thereof in each period for which the maximum value corresponding to the information is a value between $n-x+1$ and n . Said configuration is moreover appropriate for the retractable tooth (20, 21, 22) to change from the inoperative position thereof to the operative position thereof, in each period for which the maximum value corresponding to the information is a value between $n-m$ and $n-x$, and then return to the inoperative position thereof after engaging with said second drive pinion (2).

IPC 8 full level

G04B 19/24 (2006.01); **G04B 19/02** (2006.01); **G04B 19/243** (2006.01); **G04B 19/253** (2006.01)

CPC (source: EP US)

G04B 19/02 (2013.01 - EP US); **G04B 19/24** (2013.01 - US); **G04B 19/2432** (2013.01 - US); **G04B 19/2534** (2013.01 - US); **G04B 19/2536** (2013.01 - EP US)

Citation (search report)

See references of WO 2013068519A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

CH 705737 A1 20130515; **CH 705737 B1 20151231**; CN 104054028 A 20140917; CN 104054028 B 20161214; EP 2776894 A1 20140917; EP 2776894 B1 20151014; HK 1198557 A1 20150515; JP 2014535058 A 20141225; JP 6030661 B2 20161124; US 2014301171 A1 20141009; US 9081368 B2 20150714; WO 2013068519 A1 20130516

DOCDB simple family (application)

CH 18032011 A 20111111; CN 201280064357 A 20121109; EP 12781355 A 20121109; EP 2012072229 W 20121109; HK 14112054 A 20141128; JP 2014540474 A 20121109; US 201214356934 A 20121109