

Title (en)  
CLOCK DEVICE WITH POSITIONING MEMBER

Title (de)  
UHRVORRICHTUNG MIT POSITIONIERORGAN

Title (fr)  
DISPOSITIF HORLOGER A ORGANE DE POSITIONNEMENT.

Publication  
**EP 3619579 B1 20210609 (FR)**

Application  
**EP 18723605 A 20180426**

Priority  
• EP 17169280 A 20170503  
• IB 2018052896 W 20180426

Abstract (en)  
[origin: WO2018203187A1] The invention relates to a clock device (1; 3) comprising a toothed component (11; 31) and a positioning member (10; 20; 30; 40; 50; 60; 80; 90; 110; 120; 130; 140), said positioning member (10; 20; 30; 40; 50; 60; 80; 90; 110; 120; 130; 140) comprising an engagement member (15; 25; 35; 45; 55; 65; 85; 95; 115; 125; 135; 145), a support (12; 22; 32; 42; 52; 62; 82; 92; 112; 122; 132; 142) and a preset elastic member (14; 24; 44; 54; 64; 84; 94; 114; 124; 134; 144) connecting the engagement member (15; 25; 35; 45; 55; 65; 85; 95; 115; 125; 135; 145) to the support (12; 22; 32; 42; 52; 62; 82; 92; 112; 122; 132; 142), the toothed component (11; 31) being able to move into different consecutive rest positions, the engagement member (15; 25; 35; 45; 55; 65; 85; 95; 115; 125; 135; 145) being arranged so that, in each of the rest positions, it is engaged between two consecutive teeth of the toothing (111; 311) of the toothed component (11; 31) and held between said two teeth by the elastic member (14; 24; 34; 44; 54; 64; 84; 94; 114; 124; 134; 144) for holding said toothed component (11; 31) in the rest position in question, and so that, when a toothed component (11; 31) is moved by one step from a rest position to the next rest position, the engagement member (15; 25; 35; 45; 55; 65; 85; 95; 115; 125; 135; 145) is lifted by one of said two teeth against the action of the elastic member (14; 24; 34; 44; 54; 64; 84; 94; 114; 124; 134; 144) and is then positioned between said tooth and another consecutive tooth so that it holds the toothed component (11; 31) in said next rest position, the positioning member (10; 20; 30; 40 50, 60; 80; 90; 110; 120; 130; 140) being arranged so that, when said toothed component (11; 31) is moved by one step, the engagement member (15; 25; 45; 55; 65; 85; 95; 115; 125; 135; 145) moves in a predetermined range of positions relative to the support (12; 22; 32; 42; 52; 62; 82; 92; 112; 122, 39 132, 142), the stiffness of the elastic member (14; 24; 34; 44; 54; 64; 84; 94; 114; 124; 134; 144) being nil or negative in at least one part of the predetermined range.

IPC 8 full level  
**G04B 11/02** (2006.01); **G04B 11/00** (2006.01)

CPC (source: EP)  
**G04B 11/00** (2013.01); **G04B 11/022** (2013.01); **G04B 11/024** (2013.01)

Citation (examination)  
DE 4134624 C1 19930708

Cited by  
EP3907563B1

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)  
**EP 3399373 A1 20181107**; EP 3619579 A1 20200311; EP 3619579 B1 20210609; WO 2018203187 A1 20181108

DOCDB simple family (application)  
**EP 17169280 A 20170503**; EP 18723605 A 20180426; IB 2018052896 W 20180426