

Title (en)

ELECTROMECHANICAL CLOCK MOVEMENT COMPRISING A DEVICE FOR DETECTING THE ANGULAR POSITION OF A WHEEL

Title (de)

ELEKTROMECHANISCHES UHRWERK, DAS EINE VORRICHTUNG ZUR ERFASSUNG DER WINKELPOSITION EINES RADS UMFASST

Title (fr)

MOUVEMENT HORLOGER ÉLECTROMÉCANIQUE COMPRENANT UN DISPOSITIF DE DÉTECTION DE LA POSITION ANGULAIRE D'UNE ROUE

Publication

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Application

EP 16168244 A 20160504

Priority

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Abstract (en)

[origin: JP2017201307A] PROBLEM TO BE SOLVED: To provide a device for detecting the angular position of a wheel which can precisely detect the passage of a reference half-axis of the wheel through a given reference angle.SOLUTION: A movement comprises a stepping motor, a wheel 22 driven in rotation by the motor, a pinion 24 meshing with the wheel, and a detection device for detecting the angular position of the wheel to determine the passage of a reference half-axis 42 of the wheel through a reference angle (α) defined by the wheel and the pinion. The detection device comprises an electronic circuit capable of detecting an additional localized resistive torque when the wheel is driven. The localized resistive torque is achieved by a resilient element 28 integral with the wheel, and one portion of the resilient element 28 is at least partially superposed on a given hollow of a toothing 23 of the wheel. The movable component has a toothing 25 which is at least partially situated at the level of the resilient element, so that the toothing moves and presses against the resilient element when the toothing penetrates into the given hollow.SELECTED DRAWING: Figure 2A

IPC 8 full level

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