

Title (en)  
Return-to-zero device for two time counters

Title (de)  
Null-Rückstellungsvorrichtung für zwei Zeitzähler

Title (fr)  
Dispositif de remise à zéro de deux compteurs de temps

Publication  
**EP 1746471 A1 20070124 (FR)**

Application  
**EP 05405447 A 20050720**

Priority  
EP 05405447 A 20050720

Abstract (en)  
The device has a spring (5) to selectively exert a torque on a zero-resetting lever (2) for pressing hammers (6c, 6d) against respective zero-resetting cams (7, 8). Articulation units articulate the hammers with respect to the lever and have a pin (2d) engaged in a guide slot (6a). The slot is oriented such that, during zero-resetting, direction of perpendicular, dropped from an axis of the pin onto the slot, intersects a straight line joining axes (7a, 8a) of the cams at a point. A pin (2e) is engaged with a play in an opening (6b) to allow a limited rotation of the slot around the pin (2d).

IPC 8 full level  
**G04F 7/08** (2006.01)

CPC (source: EP US)  
**G04F 7/0809** (2013.01 - EP US)

Citation (search report)

- [X] EP 1462884 A2 20040929 - SEIKO INSTR INC [JP]
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- [DA] CH 571741 B5 19760115 - VALJOUX SA
- [A] US 3796041 A 19740312 - BOULT C
- [A] EP 1494097 A1 20050105 - SEIKO EPSON CORP [JP]
- [A] EP 1031896 A1 20000830 - SEIKO EPSON CORP [JP]

Cited by  
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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1746471 A1 20070124; EP 1746471 B1 20190918**; CN 100585519 C 20100127; CN 1900852 A 20070124; JP 2007024899 A 20070201; JP 4896614 B2 20120314; US 2007019509 A1 20070125; US 7331706 B2 20080219

DOCDB simple family (application)  
**EP 05405447 A 20050720**; CN 200610106009 A 20060719; JP 2006198597 A 20060720; US 48481006 A 20060712