

Title (en)
Extra-flat clockwork-movement

Title (de)
Extraflaches Uhrwerk

Title (fr)
Mouvement de montre extra-plat

Publication
EP 0573839 B1 19960424 (FR)

Application
EP 93108400 A 19930525

Priority
CH 181892 A 19920606

Abstract (en)
[origin: EP0573839A1] Extra-flat clockwork movement with manual or automatic winding, comprising at least one barrel (3) and all the runners of which are mounted cantilevered on a single bedplate (1) with the aid of a single ball-bearing (15 to 21). The ratchet (25) is in the form of a drum surrounding the barrel. It is pivoted by its periphery with the aid of at least three rollers each pivoted on a ball-bearing and the barrel (3) is pivoted in the ratchet by means of a ball-bearing (23). <??>This construction makes it possible to minimise energy losses due to friction. <IMAGE>

IPC 1-7
G04B 33/06; **G04B 1/16**

IPC 8 full level
G04B 35/00 (2006.01); **G04B 1/16** (2006.01); **G04B 31/00** (2006.01); **G04B 33/06** (2006.01)

CPC (source: EP US)
G04B 1/16 (2013.01 - EP US); **G04B 33/06** (2013.01 - EP US)

Cited by
EP3418594A1; WO2018234125A1; US7697376B2; US8498180B2; US8976629B2; EP1520214A2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0573839 A1 19931215; **EP 0573839 B1 19960424**; CH 682871 B5 19940615; CH 682871G A3 19931215; DE 69302325 D1 19960530; DE 69302325 T2 19970213; JP 3282051 B2 20020513; JP H0651076 A 19940225; US 5278807 A 19940111

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EP 93108400 A 19930525; CH 181892 A 19920606; DE 69302325 T 19930525; JP 16004293 A 19930607; US 6707093 A 19930526