

Title (en)
Watch movement with a plurality of balances

Title (de)
Uhrwerk mit mehreren Unruhen

Title (fr)
Mouvement de montre muni de plusieurs balanciers

Publication
EP 1640821 B1 20090422 (FR)

Application
EP 04022608 A 20040922

Priority
EP 04022608 A 20040922

Abstract (en)
[origin: EP1640821A1] The movement has balance wheels (33) operating in resonance, and a tourbillon frame (30) and a pallet (31) maintaining movement of one of the wheels. A gear train (28) connects barrels (22, 24) to the frame and the pallet. The wheels, the frame and the pallet are pivotally mounted on a roller (34) that is balanced with reference to an axis. An arbor connects the roller to another frame and is oriented along the axis.

IPC 8 full level
G04B 17/00 (2006.01); **G04B 17/06** (2006.01)

CPC (source: EP)
G04B 17/00 (2013.01); **G04B 17/285** (2013.01)

Cited by
EP1903408A3; CH702062A1; CH713109A1; CN103439872A; CH708038A1; JP2016520833A; CH702294A1; US8668378B2; WO2014180767A1; WO2016139196A1; US10481556B2; WO2011058157A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 1640821 A1 20060329; EP 1640821 B1 20090422; AT E429667 T1 20090515; AT E479923 T1 20100915; DE 602004020766 D1 20090604; DE 602004028972 D1 20101014; EP 1918790 A2 20080507; EP 1918790 A3 20090128; EP 1918790 B1 20100901; HK 1088669 A1 20061110; WO 2006032974 A2 20060330; WO 2006032974 A3 20060831

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