

Title (en)
Chronograph

Title (de)
Chronograph

Title (fr)
Chronographe

Publication
EP 1584997 B1 20081015 (DE)

Application
EP 05002644 A 20050209

Priority
DE 102004017345 A 20040406

Abstract (en)
[origin: DE102004017345B3] The stopwatch incorporates a mechanism for starting and stopping the second hand and the minute hand for timing events. The minute wheel (30) for showing time elapsed is connected to a heart-shaped cam (32) with two symmetrically arranged spiral surfaces (31) for synchronization of the minute indicator with the minute hand. A cam follower (28) may be moved to engage with this surface. A pawl (18) may engage on spaces between teeth (34) on the wheel. A control lever (9) has teeth (23) engaging on an isolator wheel (25) with sawtooth-shaped teeth (24) and coaxial with the minute wheel. A wheel (1) with pegs (2) engages a finger (7) on the end of the control lever.

IPC 8 full level
G04F 7/08 (2006.01)

CPC (source: EP US)
G04F 7/0876 (2013.01 - EP US)

Cited by
EP2211243A2; US8432772B2; EP2811347A2; US9507323B2; EP2811348A2; US9423773B2

Designated contracting state (EPC)
CH DE GB IT LI

DOCDB simple family (publication)
DE 102004017345 B3 20050901; DE 502005005664 D1 20081127; EP 1584997 A2 20051012; EP 1584997 A3 20070926;
EP 1584997 B1 20081015; HK 1081282 A1 20060512; JP 2005300541 A 20051027; JP 4288250 B2 20090701; US 2005249043 A1 20051110;
US 7014356 B2 20060321

DOCDB simple family (application)
DE 102004017345 A 20040406; DE 502005005664 T 20050209; EP 05002644 A 20050209; HK 06101237 A 20060126;
JP 2005110221 A 20050406; US 9992005 A 20050406