Title (en)

Electronic circuit and timepiece containing such a circuit

Title (de)

Elektronischer Schaltkreis und Uhrwerk enthaltend einen solchen Schaltkreis

Title (fr)

Circuit électronique et pièce d'horlogerie contenant un tel circuit

Publication

EP 0816955 B1 20030409 (DE)

Application

EP 97810403 A 19970625

Priority

- EP 97810403 A 19970625
- EP 9602791 W 19960626

Abstract (en)

[origin: EP0816955A1] The clock mechanism has a spring driving a time indicator and an a.c. voltage generator (1) via a wheel mechanism. The generator supplies a voltage converter (2) which feeds a first capacitive component (10) which supplies an electronic reference circuit (3-5) with a stable oscillator (3,4) and an electronic regulator circuit (6-9) with a comparator logic circuit (6). The first capacitive component is charged via one or more passive components immediately after the first cycle of the clock mechanism. The passive component or components can be replaced or augmented by one or more active units in parallel as soon as the voltage on the first capacitive component is sufficient to drive the active units, whereby the active unit resistance in the forward conducting direction is lower than that of the passive component(s).

IPC 1-7

G04C 10/00; G04G 1/00

IPC 8 full level

G04B 1/10 (2006.01); **G04B 17/00** (2006.01); **G04C 10/00** (2006.01); **G04C 11/00** (2006.01); **G04G 19/00** (2006.01); **G04G 99/00** (2010.01); **H02P 9/00** (2006.01); **H02P 29/00** (2006.01)

CPC (source: EP KR US)

G04C 10/00 (2013.01 - EP US); **G04C 11/00** (2013.01 - EP US); **G04C 19/00** (2013.01 - KR); **G04G 19/00** (2013.01 - EP US); G04C 10/00 (2013.01 - KR); G04C 11/00 (2013.01 - KR)

Cited by

EP0905588A3; EP1273984A1; US6795378B2; US6373789B2; WO2014154467A1; US9746831B2; US6633511B1; WO0029910A1; US6744699B2; US9348316B2; EP0891038A1

Designated contracting state (EPC)

CH DE ES FR GB IT LI

DOCDB simple family (publication)

EP 0816955 A1 19980107; **EP 0816955 B1 20030409**; DE 59709745 D1 20030515; DK 0848842 T3 19991108; EP 1276024 A2 20030115; EP 1276024 A3 20070502; EP 1276024 B1 20111221; ES 2196288 T3 20031216; JP 2933910 B2 19990816; JP H1123743 A 19990129; KR 100547249 B1 20060323; KR 19990006361 A 19990125; SG 72793 A1 20000523; TW 366444 B 19990811; US 6194878 B1 20010227; US 6208119 B1 20010327

DOCDB simple family (application)

EP 97810403 A 19970625; DE 59709745 T 19970625; DK 96923940 T 19960626; EP 02022189 A 19970625; ES 97810403 T 19970625; JP 7501098 A 19980310; KR 19980007891 A 19980310; SG 1998000515 A 19980309; TW 87102932 A 19980227; US 3534098 A 19980305; US 63467500 A 20000808