

Title (en)

Electronic apparatus functioning with the aid of a photovoltaic cell, in particular timepiece

Title (de)

Mit photovoltaischer Zelle funktionierendes elektronisches Gerät, insbesondere Zeitmesswerk

Title (fr)

Appareil électrique fonctionnant à l'aide d'une source photovoltaïque notamment pièce d'horlogerie

Publication

**EP 0853265 B1 20020424 (FR)**

Application

**EP 98100113 A 19980107**

Priority

- CH 3397 A 19970109
- EP 97100238 A 19970109

Abstract (en)

[origin: EP0853265A1] The timepiece uses a timekeeping unit (1) and a charging unit (8) comprising a photovoltaic cell (9), a voltage elevator (10,11,TR1,TR3) operated by impulse signal and an accumulator (7). If the timepiece is kept in the dark for a very long period the accumulator becomes completely discharged and on reemergence the photovoltaic cell does not produce a high enough voltage for restarting. An additional oscillator (15) is provided which is able to operate at the photovoltaic cell output voltage and switch two transistors (TR3,TR4) at it's own frequency. This operates the voltage elevator (10,11) and charges the accumulator (7) to a sufficient voltage for normal recovery.

IPC 1-7

**G04G 1/00**

IPC 8 full level

**G04G 19/00** (2006.01)

CPC (source: EP)

**G04G 19/00** (2013.01)

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DOCDB simple family (publication)

**EP 0853265 A1 19980715; EP 0853265 B1 20020424**; DE 69805011 D1 20020529; DE 69805011 T2 20021212

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