

Title (en)

INTERACTIVE DATA ENTRY DEVICE FOR A SMALL SIZE INSTRUMENT, PARTICULARLY FOR A TIMEPIECE

Publication

EP 0031077 B1 19850403 (FR)

Application

EP 80107773 A 19801210

Priority

CH 1129979 A 19791220

Abstract (en)

[origin: US4365243A] The invention concerns an interface device for the entry of data into an instrument of small volume such as a timepiece and comprises a static touch responsive sensor formed by a plurality of juxtaposed electrodes. An electronic logic circuit on the one hand receives signals emitted by the sensor representing the position of a finger on the sensor and on the other hand provides output clock pulses to a first and a second counter. Switching means in the electronic logic circuit enable the switching of the clock pulses to the first counter if the finger is moved over the sensor at a speed v1 less than a threshold speed v2 or to the second counter if the finger is moved over the sensor at a speed v3 greater than the threshold speed v2. The invention may be employed in small timepieces for time setting for example.

IPC 1-7

G04G 5/00; **G04G 1/00**; **H01H 35/06**

IPC 8 full level

G04G 1/00 (2006.01); **G04G 1/02** (2006.01); **G04G 1/10** (2006.01); **G04G 5/00** (2006.01); **G04G 5/02** (2006.01); **G04G 9/00** (2006.01); **G04G 21/00** (2010.01); **G04G 21/08** (2010.01); **G04G 99/00** (2010.01)

CPC (source: EP US)

G04G 5/00 (2013.01 - EP US); **G04G 21/08** (2013.01 - EP US)

Citation (examination)

- GB 2019052 A 19791024 - CITIZEN WATCH CO LTD
- DE 2855935 A1 19790705 - CENTRE ELECTRON HORLOGER
- US 4005400 A 19770125 - ENGDAHL JEAN
- DE 2848663 A1 19790517 - CITIZEN WATCH CO LTD
- CH 10216 A 18951031 - HOFMANN ROBERT [CH]

Cited by

US4468131A; EP0895143A1; AU653754B2; US6366540B1; EP0314213B1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 0031077 A1 19810701; **EP 0031077 B1 19850403**; CA 1150382 A 19830719; CH 637804 B; CH 637804G A3 19830831; DE 3070429 D1 19850509; JP S5698671 A 19810808; JP S63163491 U 19881025; US 4365243 A 19821221

DOCDB simple family (application)

EP 80107773 A 19801210; CA 366518 A 19801210; CH 1129979 A 19791220; DE 3070429 T 19801210; JP 17966680 A 19801218; JP 19148687 U 19871218; US 21707980 A 19801216