

Title (en)
CLOCK WITH STRIKING MECHANISM.

Title (de)
UHR MIT GLASENSCHLAG.

Title (fr)
HORLOGE AVEC SONNERIE.

Publication
EP 0011636 A1 19800611 (FR)

Application
EP 79900414 A 19791119

Priority
DE 2817762 A 19780422

Abstract (en)
[origin: US4276625A] An electronic clock emitting half-hourly time signals corresponding to the strokes of ships' bells comprises an electromagnetic striker driven by a normally blocked astable multivibrator whenever the closure of contacts operated by an associated clockwork, stepped by a crystal-controlled square-wave generator, coincides with a half-circle of predetermined polarity of the generated square wave. The multivibrator has a period of approximately 3/4 the duration of a half-circle of the square wave whereby not more than two pulses energizing the striker mechanism can be emitted by it during an unblocking half-circle so that strokes occurring at the ends of a second, third and fourth hour of a four-hour watch will appear in distinct pairs while those on the preceding half-hours will form one or more pairs followed by a single stroke after a larger time interval. The total number of strokes produced in each instance is determined by a comparator receiving the output of an electronic counter, advanced by the multivibrator pulses, together with binary signals generated by a multibank rotary switch entrained by the clockwork.

Abstract (fr)
Horloge avec sonnerie, utilisable notamment comme chronometre de marine. Cette horloge comporte un circuit electronique d'horloge a quartz pour la mesure du temps, un circuit de pilotage a quartz (6) associe a un dispositif electronique (3) servant au comptage des coups et pouvant etre preetabli par le circuit d'horloge et un generateur d'impulsions (2) pour l'obtention des coups a sonner. Ces elements permettent d'obtenir une horloge, en particulier un chronometre de marine, avec sonnerie, ayant une disposition relativement simple, une longue duree de fonctionnement et une precision elevee.

IPC 1-7
G04C 21/12; G08B 3/00

IPC 8 full level
G04C 21/30 (2006.01)

CPC (source: EP US)
G04C 21/30 (2013.01 - EP US)

Designated contracting state (EPC)
FR

DOCDB simple family (publication)
US 4276625 A 19810630; DE 2817762 A1 19791031; EP 0011636 A1 19800611; GB 2036388 A 19800625; GB 2036388 B 19821103; IT 1112548 B 19860120; IT 7922048 A0 19790423; NL 7903097 A 19791024; SE 7910629 L 19791221; WO 7900965 A1 19791115

DOCDB simple family (application)
US 12851880 A 19800310; DE 2817762 A 19780422; DE 7900045 W 19790421; EP 79900414 A 19791119; GB 7943704 A 19790421; IT 2204879 A 19790423; NL 7903097 A 19790420; SE 7910629 A 19791221