



Europäisches Patentamt
European Patent Office
Office européen des brevets



Publication number:

0 320 295 A3

12

EUROPEAN PATENT APPLICATION

21 Application number: 88311700.4

51 Int. Cl.⁵: **G04C 3/14**

22 Date of filing: 09.12.88

30 Priority: 11.12.87 JP 314673/87
28.12.87 JP 333496/87
28.09.88 JP 243000/88

43 Date of publication of application:
14.06.89 Bulletin 89/24

84 Designated Contracting States:
CH DE FR GB IT LI NL

86 Date of deferred publication of the search report:
27.03.91 Bulletin 91/13

71 Applicant: **SEIKO INSTRUMENTS INC.**
31-1, Kameido 6-chome Koto-ku
Tokyo 136(JP)

72 Inventor: Inoue, Yuichi
SEIKO INSTRUMENTS INC. 31-1 Kameido

6-chome
Koto-ku Tokyo(JP)
Inventor: Odagiri, Hiroshi
SEIKO INSTRUMENTS INC. 31-1 Kameido

6-chome
Koto-ku Tokyo(JP)
Inventor: Saruwatari, Tomozumi
SEIKO INSTRUMENTS INC. 31-1 Kameido

6-chome
Koto-ku Tokyo(JP)
Inventor: Takakuwa, Eriko
SEIKO INSTRUMENTS INC. 31-1 Kameido
6-chome
Koto-ku Tokyo(JP)

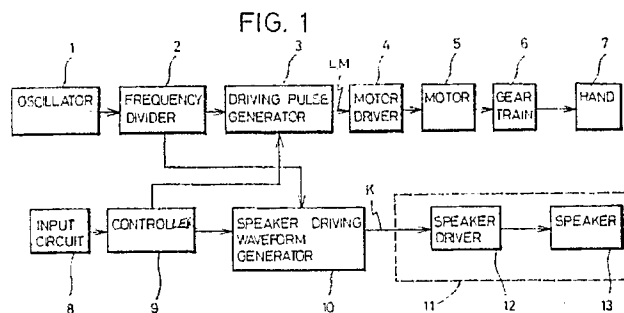
74 Representative: **Caro, William Egerton et al**
J. MILLER & CO. Lincoln House 296-302 High
Holborn
London WC1V 7JH(GB)

54 **Analog electronic timepiece.**

57 An analog electronic timepiece comprises time keeping means (1, 2) for producing time of day information, a motor driving circuit (3,4) responsive to the time keeping means for generating motor driving waveforms, and a motor (5) responsive to the motor driving circuit. A time indicating hand (7) responsive to the motor (5) indicates time of day. An acoustic circuit (11, 13) is responsive to the time keeping means for emitting a sound at a predetermined time and includes a speaker (13). A control

circuit (9) controls the motor driving circuit (3) so that the time indicating hand (7) is driven in a different way from when time of day is indicated in synchronism with sound emitted by the acoustic circuit. Moreover the control circuit (9) is responsive to the time keeping means for controlling the motor driving circuit so that the time indicating hand indicates the time of day after termination of the sound emitted by the acoustic circuit.

EP 0 320 295 A3





DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	GB-A-2 128 379 (CITIZEN WATCH CO., LTD) * Column 1, lines 20-51; figures * - - -	1,5,8	G 04 C 3/14
A	PATENT ABSTRACTS OF JAPAN, vol. 10, no. 371 (P-526)[2428], 11th December 1986; & JP-A-61 165 680 (SEIKO EPSON CORP.) 26-07-1986 - - -	2,3	
A	DE-C-2 857 808 (SHARP K.K.) * Claims * - - - - -	5,6	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			G 04 C G 04 G G 04 F
Place of search	Date of completion of search	Examiner	
The Hague	27 December 90	EXELMANS U.G.J.R.	
CATEGORY OF CITED DOCUMENTS X: particularly relevant if taken alone Y: particularly relevant if combined with another document of the same category A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention		E: earlier patent document, but published on, or after the filing date D: document cited in the application L: document cited for other reasons ----- &: member of the same patent family, corresponding document	