

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11) **EP 1 059 575 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **07.03.2001 Bulletin 2001/10**

(51) Int. Cl.⁷: **G04C 21/16**, G04G 1/00, G04G 13/02

(43) Date of publication A2: 13.12.2000 Bulletin 2000/50

(21) Application number: 00111866.0

(22) Date of filing: 08.06.2000

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: **08.06.1999 JP 19796199 28.12.1999 JP 37552999**

(71) Applicant: Yumex Co., Ltd. Kobe-shi, Hyogo (JP)

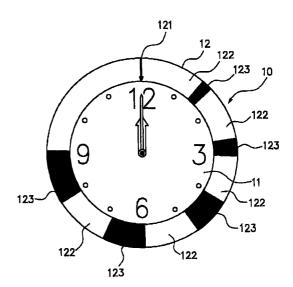
(72) Inventor: Masuda, Yoshihiro Chuo-ku, Kobe-shi, Hyogo (JP)

(74) Representative:
Reinhard - Skuhra - Weise & Partner
Postfach 44 01 51
80750 München (DE)

(54) Alarm clock and alarm clock simulating indicator

(57) The present invention provides an analog alarm clock (10) including a dial plate (11) with time positions thereon, and an annular member (12) rotatably fitted around the dial plate (11). The annular member (12) has a front face, which displays thereon an initial position, and a REM sleep period (123) extending around the circumferential periphery of the annular member (12) with the initial position as a starting point in such a manner as to be comparable to the time positions on the dial plate (11).

F I G. 1





EUROPEAN SEARCH REPORT

Application Number EP 00 11 1866

	DOCUMENTS CONSID	ERED TO BE RELEVANT	Γ	
Category	Citation of document with i of relevant pass	ndication, where appropriate, ages	Relevi to clai	
X	PATENT ABSTRACTS OF JAPAN vol. 013, no. 057 (P-825), 9 February 1989 (1989-02-09) & JP 63 247685 A (MATSUSHITA ELECTRIC IND CO LTD), 14 October 1988 (1988-10-14) * abstract; figures 1-4 *			G04C21/16 G04G1/00 G04G13/02
A	PATENT ABSTRACTS OF vol. 015, no. 136 (4 April 1991 (1991- & JP 03 017591 A (N 25 January 1991 (19 * abstract; figures	P-1187), 04-04) HINOLTA CAMERA CO LTD) 191-01-25)	, 1-4	
A	PATENT ABSTRACTS OF vol. 005, no. 175 (11 November 1981 (1 & JP 56 104276 A (S ELECTRONICS LTD), 19 August 1981 (198 * abstract; figure	P-088), 981-11-11) EIKO INSTR & 1-08-19)	1-4	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
A	FR 2 597 995 A (BOUCHERON PAUL) 30 October 1987 (1987-10-30) * column 1, line 7 - line 34; claims 1-4,7,9,10,15; figures 1-3 *		1-4	G04C G04G G04B A61M
			;	
	The present search report has	peen drawn up for all claims		
	Place of search	Date of completion of the search	<u> </u>	Examiner
	VIENNA	22 December 20	90 N	denni nger
X : parti Y : parti docu A : tech O : non	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with anot iment of the same category inological background written disclosure mediate document	L : document cite	document, but p date ed in the applica ed for other reas	oublished on, or tion ons

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 11 1866

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

22-12-2000

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 63247685	A	14-10-1988	JP JP	2068152 C 7107552 B	10-07-1996 15-11-1995
JP 03017591	A	25-01-1991	NONE		
JP 56104276	A	19-08-1981	JP JP	1658260 C 3015716 B	21-04-1992 01-03-1991
FR 2597995	 A	30-10-1987	FR	2634913 A	02-02-1990

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82