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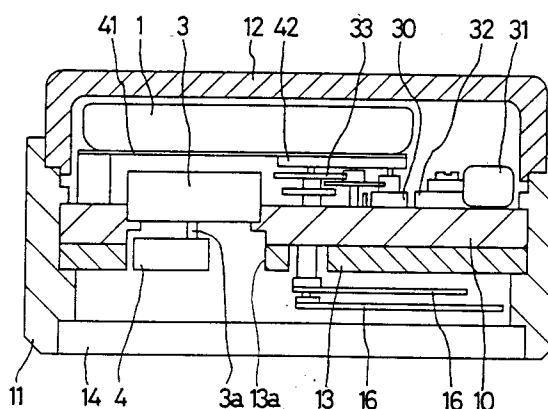
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02.01.92 Bulletin 92/01(71) Applicant: **SEIKO INSTRUMENTS INC.**
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J. MILLER & CO. Lincoln House 296-302 High
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London WC1V 7JH(GB)(54) **Time keeping device with vibrational alarm.**

(57) A vibrating alarm timekeeping device comprising a casing (11,12,14) having a rear cover portion (12); a motor (3) which is mounted within the casing (11,12,14), the motor (3) having a motor shaft (3a) which carries an eccentric weight (4) which is arranged to be driven by the motor (3) at a preset alarm time so as to impart vibrations to the casing (11,12,14); and motor control means (2,29) for effecting operation of the motor (3) at the said preset alarm time, characterised in that the motor shaft (3a) is substantially perpendicular to the rear cover portion (12), the motor shaft (3a) extending from the motor (3) on the side of the latter remote from the rear cover portion (12).

FIG. 1**EP 0 437 033 A3**



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EUROPEAN SEARCH REPORT

Application Number

EP 90 31 2710

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)
Y	PATENT ABSTRACTS OF JAPAN vol. 9, no. 236 (P-390)21 September 1985 & JP-A-60 089 791 (SEIKOUSHIYA) - - -	1,5-8	G 04 B 25/04 G 04 G 13/02 G 04 C 21/02
A	* abstract * - - -	9	
D,Y	PATENT ABSTRACTS OF JAPAN vol. 13, no. 375 (P-921)(3723) 21 August 1989 & JP-A-1 129 187 (MATSUSHITA ELECTRIC) - - -	1,5-8	
A	* abstract * - - -	9-12	
A	GB-A-2 071 365 (CITIZEN) * page 1, line 12 - line 16; figures 3,4 ** - - -	2	
A	PATENT ABSTRACTS OF JAPAN vol. 12, no. 370 (P-767)5 October 1988 & JP-A-63 120 277 (SEIKO INSTR & ELECTRONICS) * abstract ** - - -	3	
A	CH-A-5 182 7 (PANTILLON) * page 1, line 1 - line 8; figures 1,2 *** page 1, line 30 - line 35 ** - - - - -	4	TECHNICAL FIELDS SEARCHED (Int. Cl.5) G 04 G G 04 B G 04 C
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 04 November 91	Examiner GOULDING C.A.
<div><div>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</div><div>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</div></div>			