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## EUROPEAN PATENT APPLICATION

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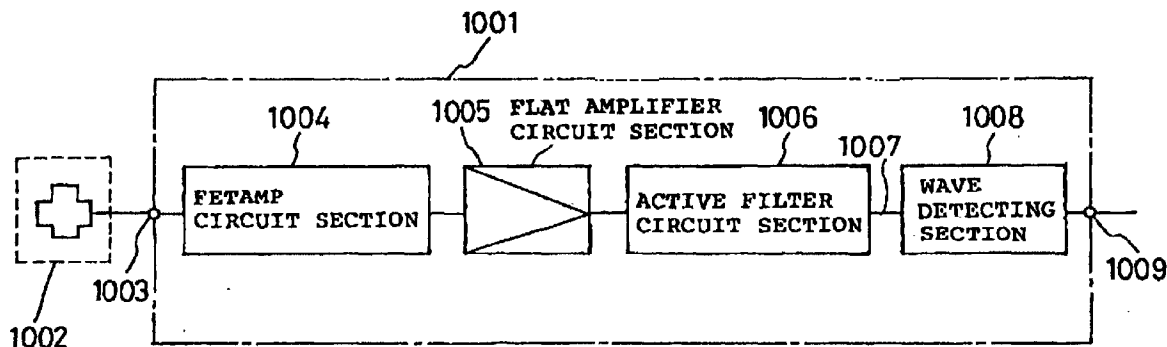
### (54) Electronic equipment

(57) It is an object of the present invention to provide a technology for realising new high performance portable electronic equipment featuring small size, low cost, and low power consumption especially in relation to configuration of an antenna as well as to configuration of a receiving circuit and a signal decoding circuit in the field

of portable electronic equipment for modifying clock display or displaying a message by receiving electric means.

An electronic equipment according to the present invention solves the problems as described above by employing a Hall effect device (5007) with a ferromagnetic body (5003, 5005) adjacent thereto as an antenna.

**FIG. 1A**



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FIG. 1 B      NODE 1 

FIG. 1 C      OUTPUT  
WAVEFORM 



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# EUROPEAN SEARCH REPORT

Application Number  
EP 97 30 4219

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.6)
A	EP 0 439 724 A (JUNGHANS UHREN GMBH) 7 August 1991 * column 1, line 1 - column 2, line 48 *	1-5	G04G1/00 H01Q1/27
A	EP 0 214 829 A (ICI AUSTRALIA LTD) 18 March 1987 * page 2, line 8 - page 3, line 7 *	1-5	
A	US 3 507 111 A (YOSHIMURA KOUICHI ET AL) 21 April 1970 * column 4, line 15 - column 5, line 3 *	1-5	
A	PATENT ABSTRACTS OF JAPAN vol. 012, no. 308 (E-647), 22 August 1988 & JP 63 074228 A (MITSUBISHI ELECTRIC CORP), 4 April 1988, * abstract *	1-5	
A	FR 2 277 321 A (RUGGIERI ETS) 30 January 1976 * page 1, line 26 - page 2, line 32; figure 1 *	1-5	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			G04G H01Q
The present search report has been drawn up for all claims			
Place of search <b>THE HAGUE</b>		Date of completion of the search <b>30 September 1997</b>	Examiner <b>Exelmans, U</b>
CATEGORY OF CITED DOCUMENTS		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	
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			

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**CLAIMS INCURRING FEES**

The present European patent application comprised at the time of filing more than ten claims

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and those claims for which fees have been  
namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

**LACK OF UNITY OF INVENTION**

The Search Division considers that the present European patent application does not comply with the requirement of the unity of the invention and relates to several inventions or groups of inventions, namely:

SEE SHEET B

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims
- ☐ Only part of the further claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respects of which search fees have been paid,  
namely claims:
- X** None of the further claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims,  
namely claims: 1 - 5



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**LACK OF UNITY OF INVENTION  
SHEET B**

Application Number  
EP 97 30 4219

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-5

Antenna construction.

2. Claims: 6-11

Antenna-signal amplification and treatment.