Case 5:19-cv-00036-RWS Document 111-7 Filed 10/23/19 Page 1 of 20 PageID #: 4988

EXHIBIT 7

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US006928306B2

(12) United States Patent

Matsuda et al.

(54) PORTABLE MOBILE UNIT

- (75) Inventors: Masayuki Matsuda, Tokyo (JP); Tomohiro Esaki, Tokyo (JP); Kazuyuki Takizawa, Tokyo (JP); Akio Shinagawa, Tokyo (JP); Chikako Takada, Tokyo (JP)
- (73) Assignee: Hitachi, Ltd., Tokyo (JP)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 575 days.
- (21) Appl. No.: 09/755,878
- (22) Filed: Jan. 4, 2001

(65) **Prior Publication Data**

US 2001/0014616 A1 Aug. 16, 2001

(30) Foreign Application Priority Data

Jan. 7, 2000 (JP) 2000-005858

- (51) Int. Cl.⁷ H04B 1/38
- (52) U.S. Cl. 455/567; 455/418

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(10) Patent No.: US 6,928,306 B2 (45) Date of Patent: Aug. 9, 2005

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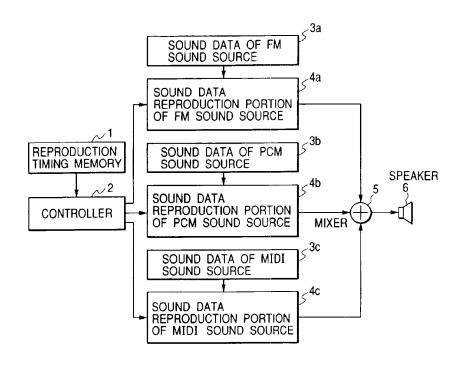
Primary Examiner—Nay Maung

Assistant Examiner—Tu X Nguyen (74) Attorney, Agent, or Firm—Townsend and Townsend and Crew LLP

(57) **ABSTRACT**

A portable mobile unit for alerting on incoming of a signal by a ringing sound, comprises: a ringing sound generator for generating the ringing sound in a plurality of patterns; and a controller for controlling operations of the portable mobile unit, wherein the controller select one pattern from the a plurality of patterns based on conditions which are set up in advance, when the signal comes in, so as to control the ringing sound generator to generate the ringing sound for alerting a user of the incoming call, thereby providing the portable mobile unit being superior in the usability, with which various conditions can be grasped by means of change in the ringing sound when the telephone call comes in, while achieving the discrimination of the ringing sound for alerting of the incoming call.

15 Claims, 8 Drawing Sheets



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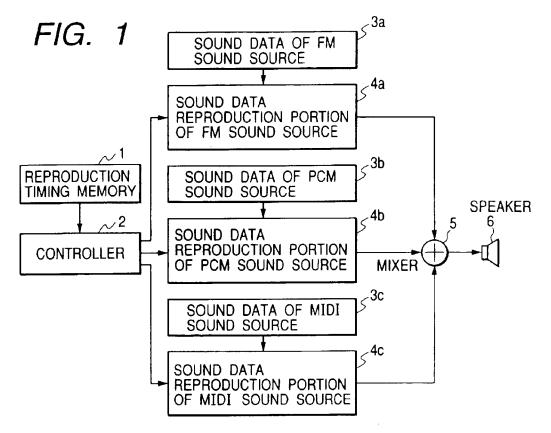


FIG. 2

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PATTERN NUMBER	SOUND DATA NUMBER	REPRODUCTION TIMING
PATTERN 1	1	a b ON OFF
	2	
	3	
PATTERN 2	1	ON OFF
	2	
	4	
PATTERN 3	3	
:	÷	:



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Sheet 2 of 8

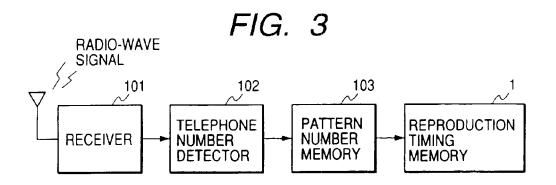
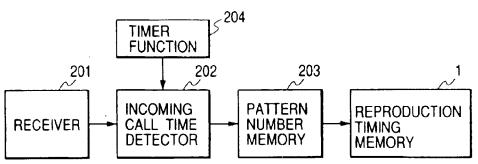


FIG. 4

PATTERN NUMBER	MEMORY	_
TELEPHONE NUMBER	PATTERN NUMBER	
012-345-6789	1 -	— 103a
090-1234-5678	2 -	— 103b
UPPER 3 DIGITS 045	3 -	- 103c
UPPER 4 DIGITS 0965	4 -	- 103d
:	:	





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Sheet 3 of 8

US 6,928,306 B2

FIG. 6

PATTERN NUMBER MEMORY

SET-UP TIME	PATTERN NUMBER	
0:00~8:00	1 -	- 203a
17 : 15 ~ 21 : 30	2 -	- 203b
:	:	
]

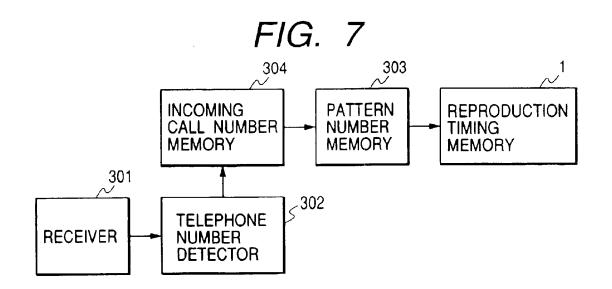


FIG. 8

PATTERN NUMBER MEMORY

INCOMING CALL NUMBER	PATTERN NUMBER	
1st TIME	1 -	- 303a
2nd TIME	2 -	- 303b
3rd TIME	3 -	- 303c
:	:	

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