United States Patent [19]

Bishop et al.

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[54] **EMERGENCY WIRELESS TELEPHONE AND CONTROL SYSTEM, AND METHOD**

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[21] Appl. No.: **291,172**

[22] Filed: **Aug. 16, 1994**

[51] Int. Cl.^{6} **H04Q 7/22**; H04Q 7/08; H04M 11/04

[52] U.S. Cl. **379/59**; 379/57; 379/37; 455/33.1

[58] Field of Search 379/58, 59, 57, 379/61, 369, 370, 433, 38, 39, 37, 66; 455/89, 90, 33.1; 340/825.44

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[57] **ABSTRACT**

The emergency wireless telephone and system describes improved control and service offered in the conventional public telephone system as pertains to cellular telephone service. The system contemplates an emergency wireless telephone, with options, including: (1) a method and system of alerting the user of a mobile emergency phone without the need for keeping the telephone's electronics under power, (2) a system which enables the control and responsibility for a call to be moved further downstream at a cellular telephone switch, by altering the character and use of the mobile identification number and by reprogramming the telephone switch, (3) establishing a hierarchy for and insuring that the identification of the calling party is transmitted, both before and after answer supervision is transferred, (4) an fraud protection, interactive identification system using a key and mathematical operator which both verifies the user's identity and eliminates the need for the look-up of the caller's telephone or account number, (5) an interactive in phone switch which can interactively select between the "A" side and "B" side carriers in a given locale, (6) a system which can implement a manual call back method of handling incoming calls, and (7) a system which enables automatic "meet me" handling of incoming calls.
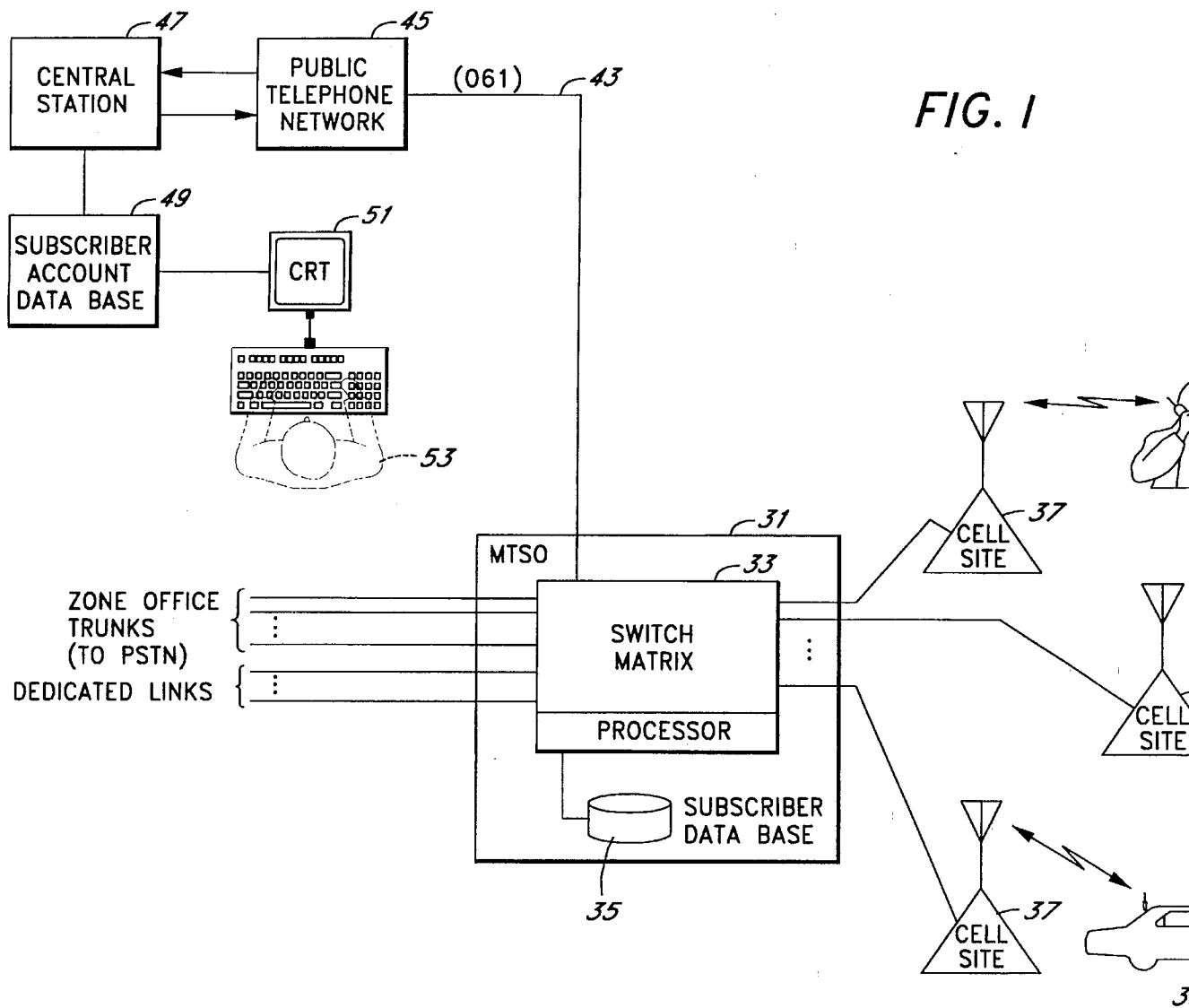
43 Claims, 7 Drawing Sheets

FIG. I
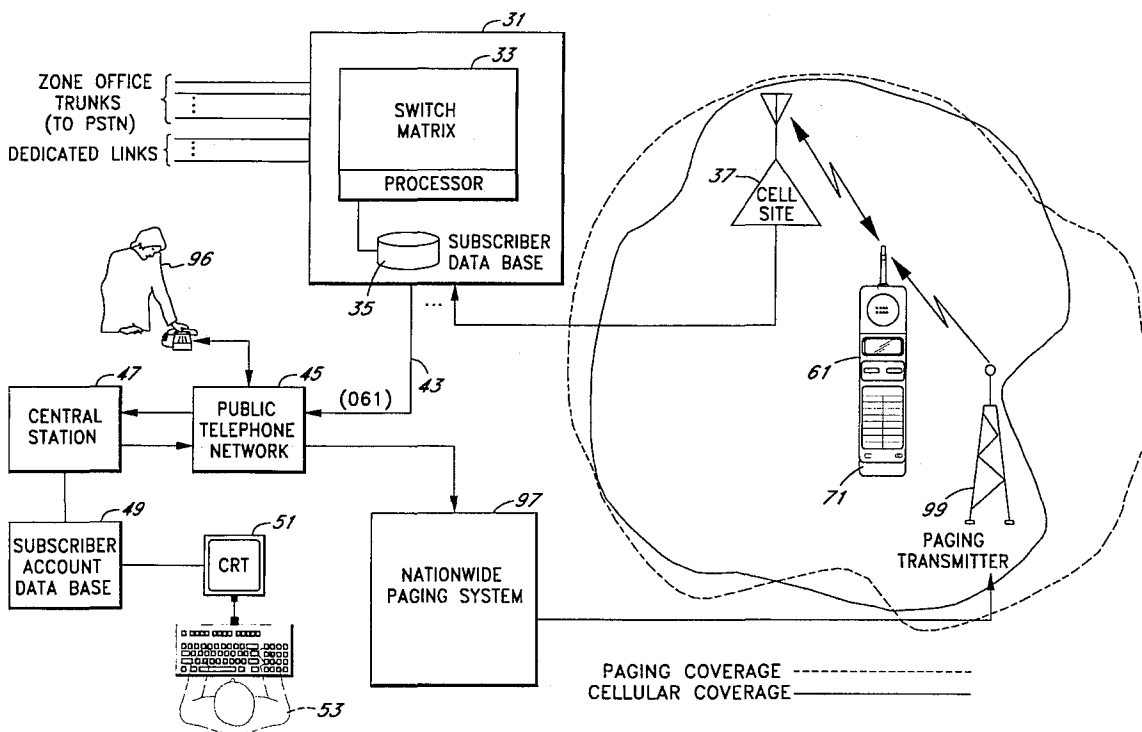
FIG.2

	8	7	6	5	4	3	2	1
1	O/E	NATURE OF ADDRESS INDICATOR						
2	SPARE	NUMBERING PLAN		RESERVED				
3	2nd ADDRESS SIGNAL				1ST ADDRESS SIGNAL			
⋮	⋮							
n	FILLER (IF NECESSARY)				nth ADDRESS SIGNAL			

FIG. 3

FIG. 4

FIG. 5

FIG.5B

61

73

63 — CALL   HELP — 65

CALL BACK — 97

81

```
1  2  3
4  5  6
7  8  9
*  0  #
```

77

71

FIG.5C

75

61

78A

ON

78

OFF

78B

79

71
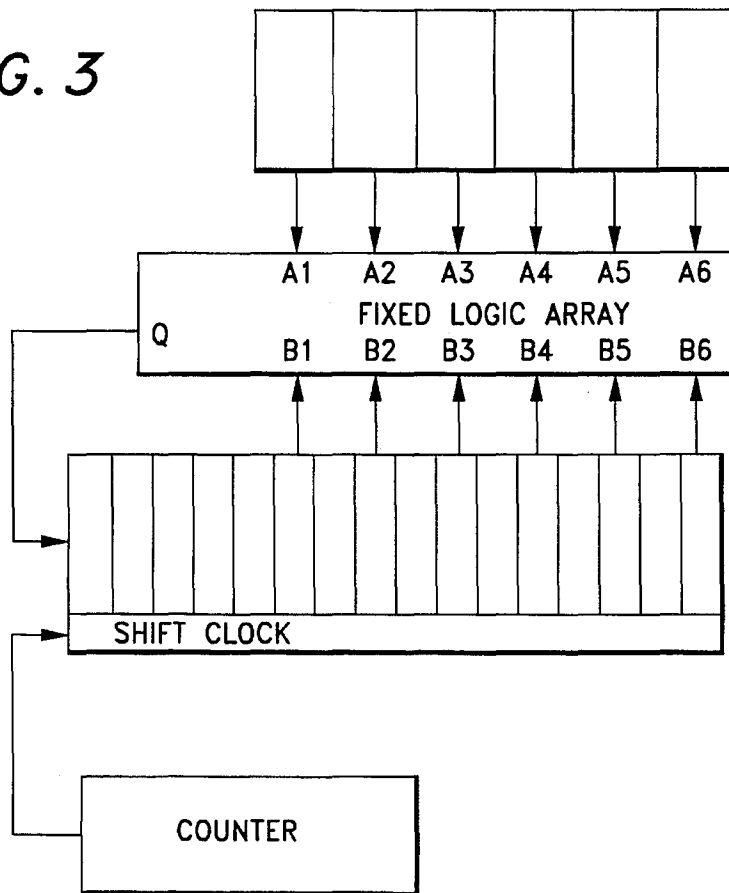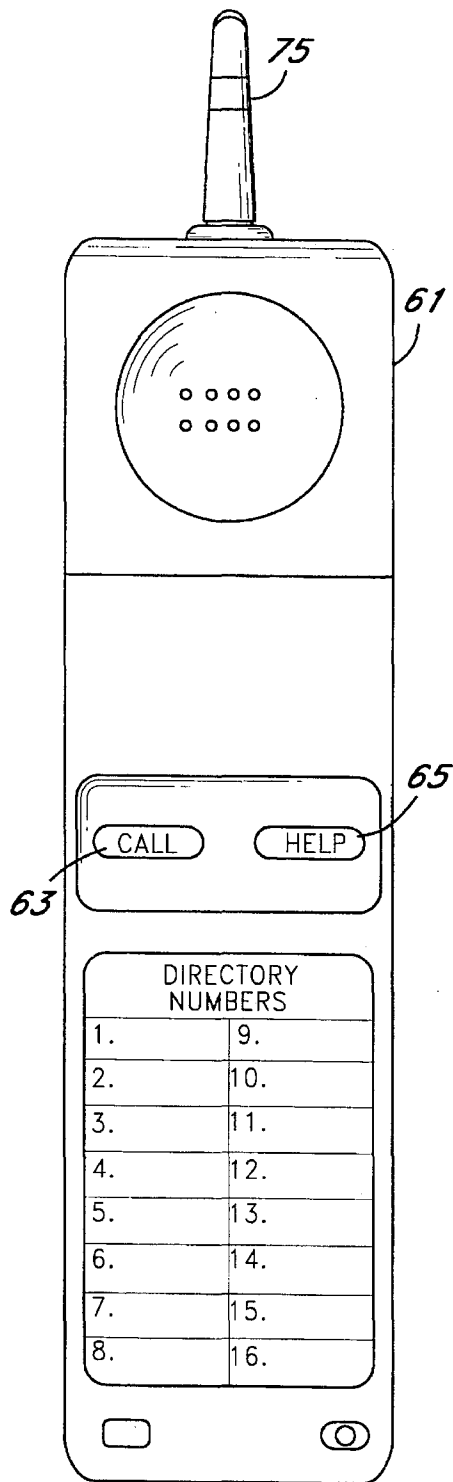
DOCKET ALARM
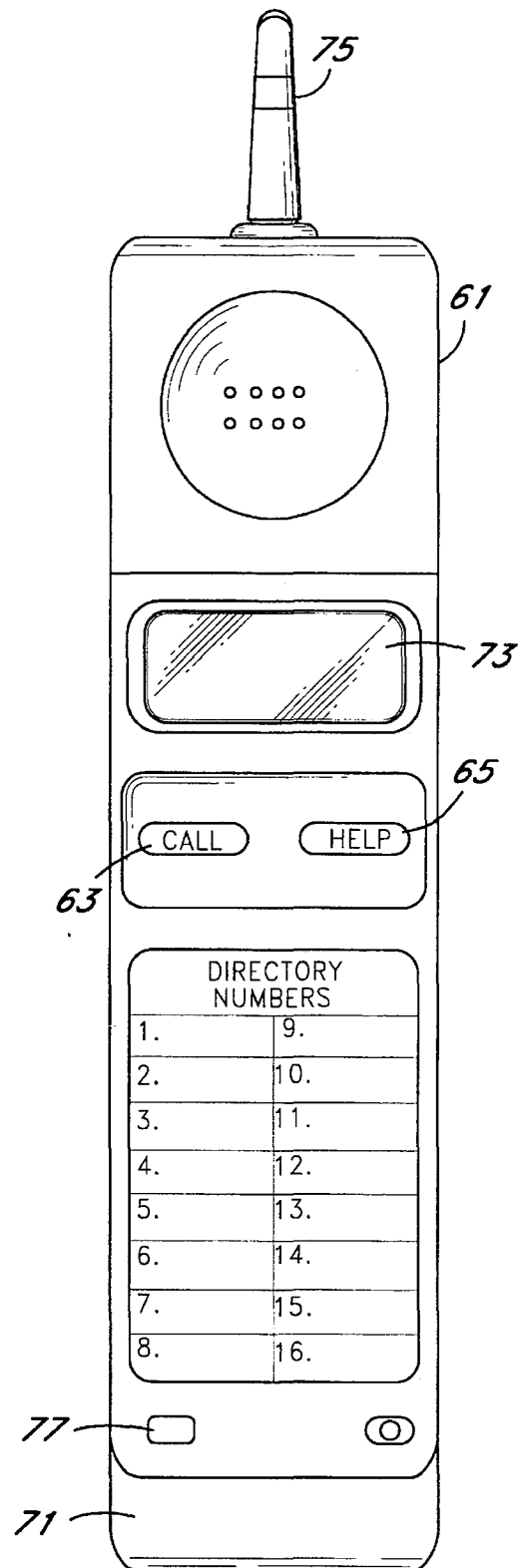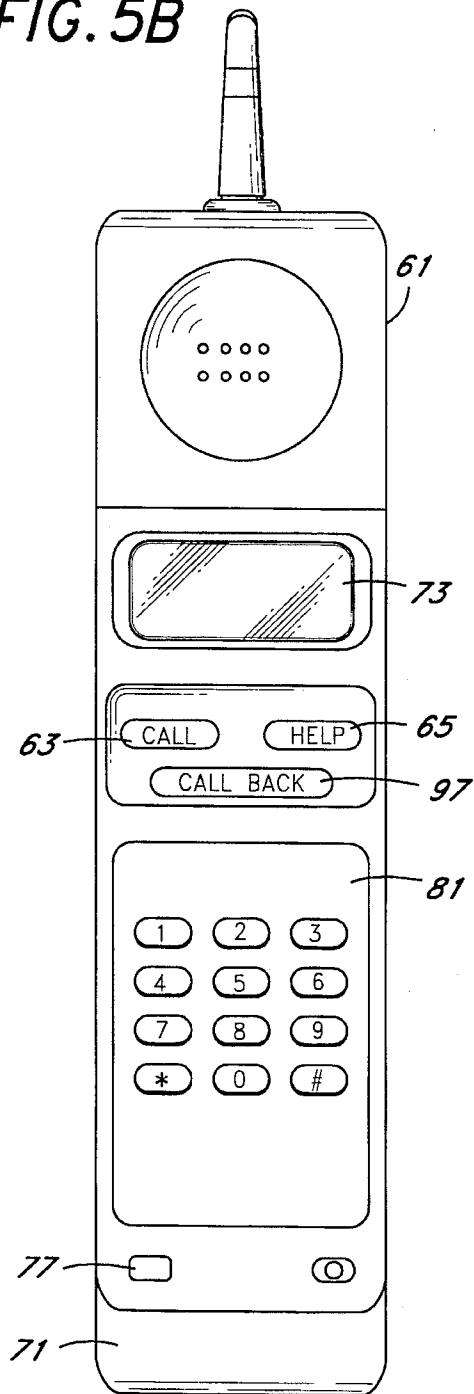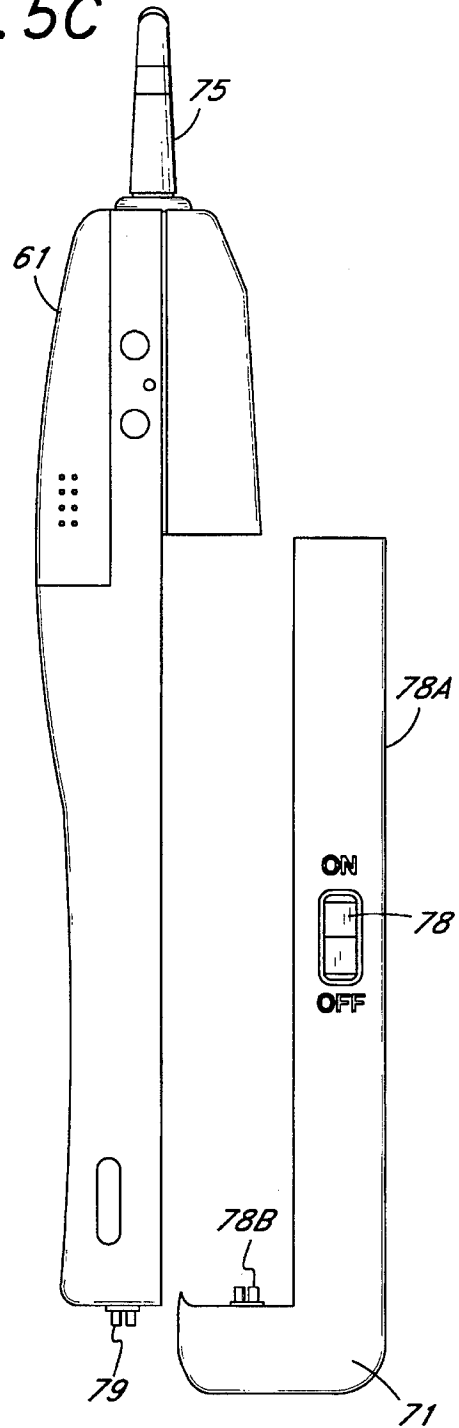
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