

[54] APPARATUS FOR AUTO DIALING TELEPHONE NUMBERS AND DTMF TONES IN A PERSONAL COMMUNICATION DEVICE

4,837,800	6/1989	Freeburg et al. .	
4,964,156	10/1990	Blair	379/355
4,972,457	11/1990	O'Sullivan .	
4,980,910	12/1990	Oba et al.	379/354
5,127,041	6/1992	O'Sullivan .	
5,257,397	10/1993	Barzegar et al. .	
5,263,078	11/1993	Takahashi et al. .	
5,276,729	1/1994	Higuchi et al.	379/356
5,282,238	1/1994	Berland .	

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[57] ABSTRACT

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A radio telephone which communicates via cellular telephone networks and by direct connection to a PSTN. The radio telephone includes a random access memory for storing a character string comprising dialing digits defining a calling number and DTMF digits representing signalling tones for accessing information to called equipment. The character string includes a delimiting character for separating dialed digits and DTMF digits. In a dialing sequence, the cellular radio will dial numbers defined by the dial digits and send the remaining characters as DTMF tones to connected telephone.

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[51] Int. Cl.⁶ H04Q 7/32

[52] U.S. Cl. 379/58; 379/354; 379/355

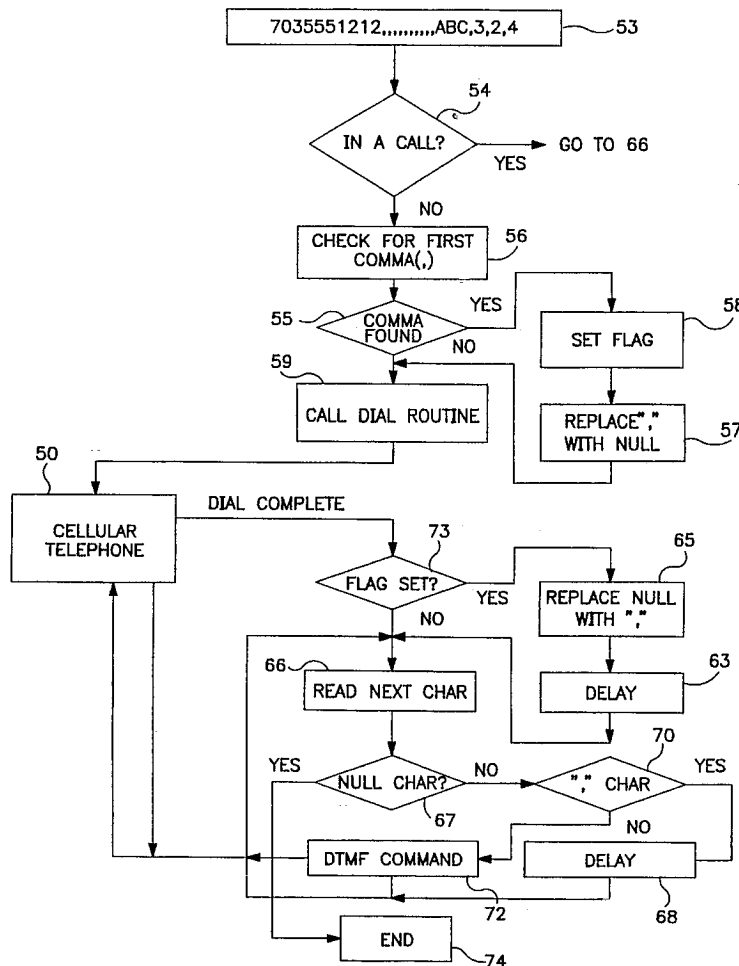
[58] Field of Search 379/58, 59, 354-356

[56] References Cited

U.S. PATENT DOCUMENTS

- Re. 34,034 8/1992 O'Sullivan .
- 4,697,281 9/1987 O'Sullivan .

8 Claims, 5 Drawing Sheets



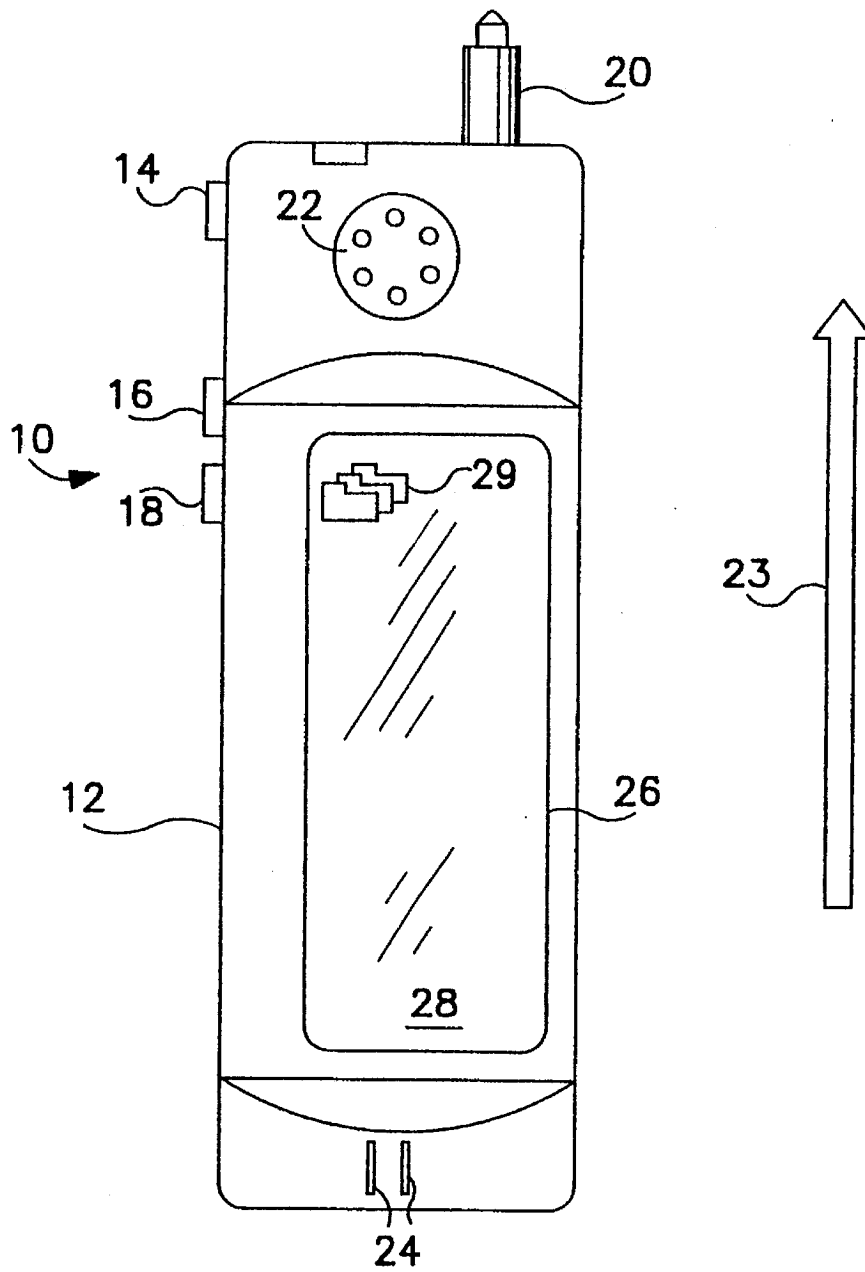


FIG. 1A

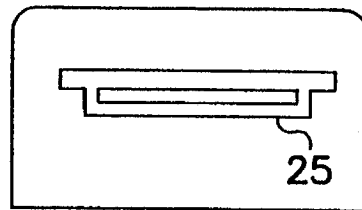


FIG. 1B

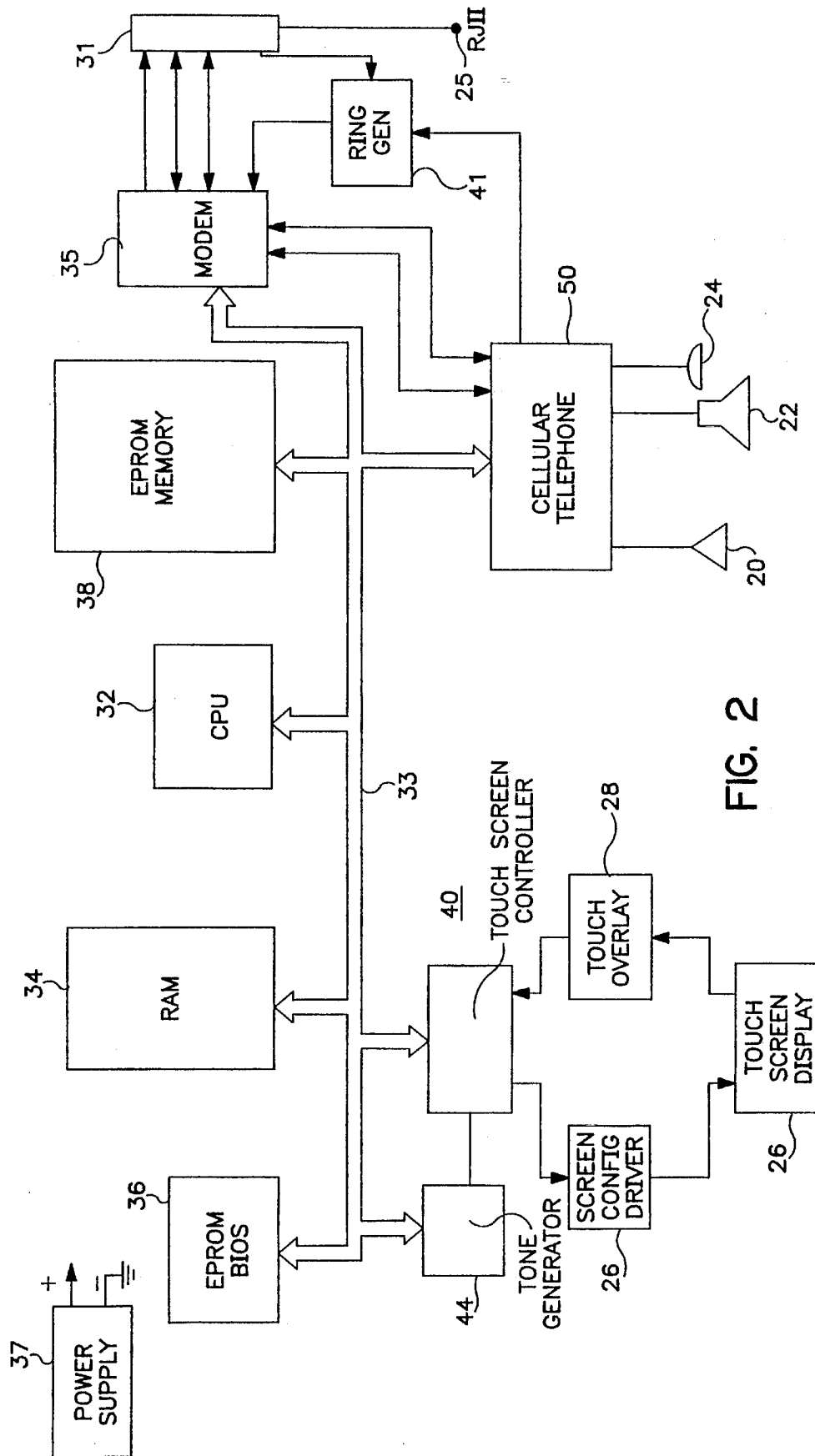


FIG. 2



Address Book

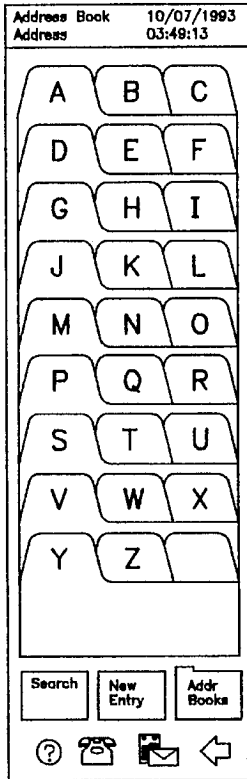


FIG. 3A

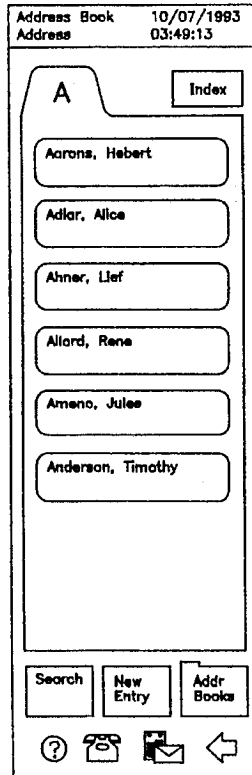


FIG. 3B

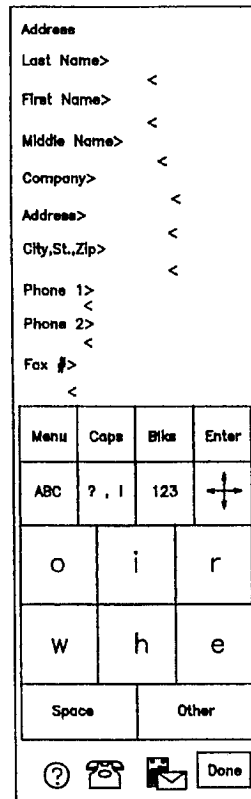


FIG. 3C

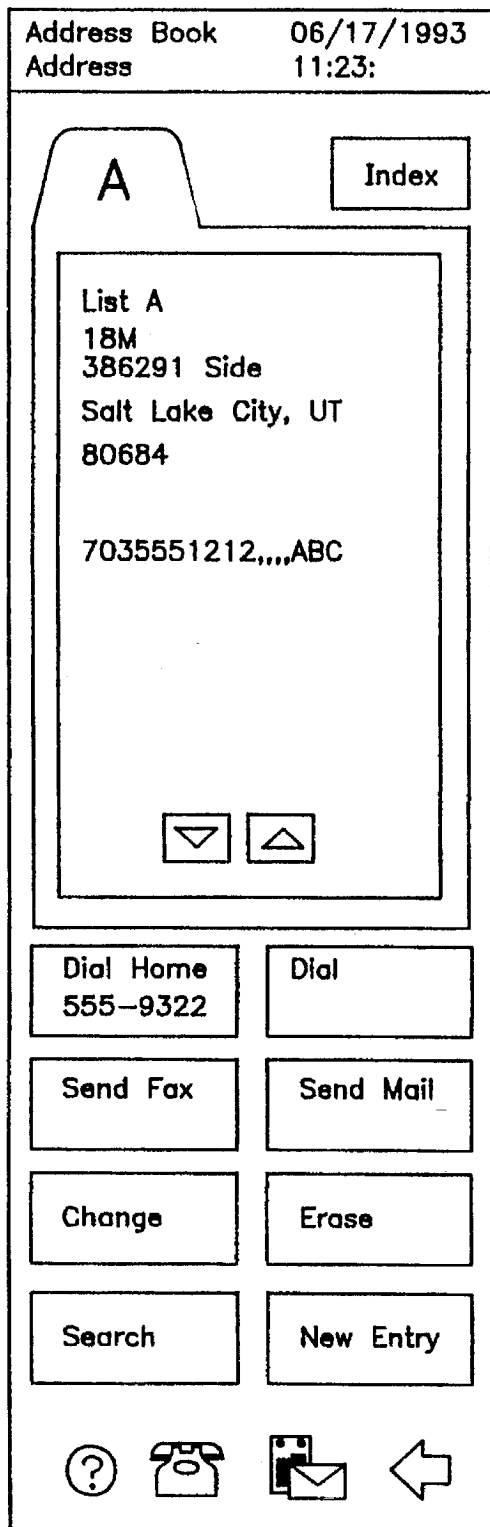


FIG. 3D

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