United States Patent [19]

Valentine et al.

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[54]	METHOD AND APPARATUS FOR
	DOWNLOADING TONES TO MOBILE
	TERMINALS

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[51] **Int. Cl.**⁷ **H04Q 7/22**; H04Q 7/32

[52] **U.S. Cl.** **455/414**; 455/419; 455/567

375

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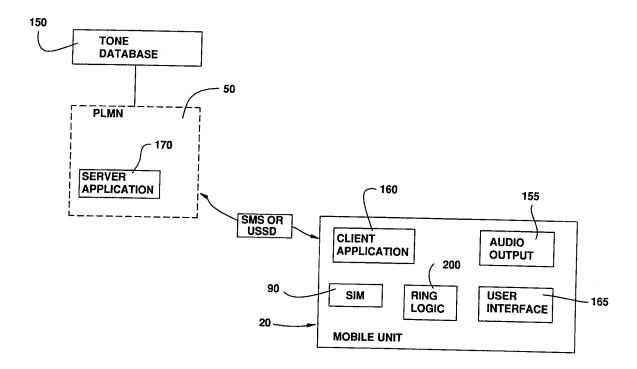
 $\begin{array}{cccc} 0 \ 562 \ 890 & 9/1993 & European \ Pat. \ Off. \ . \\ WO \ 93/26132 & 12/1993 & WIPO \ . \end{array}$

Primary Examiner—Andrew M. Dolinar Attorney, Agent, or Firm—Jenkens & Gilchrist

[57] ABSTRACT

A method and apparatus for downloading tone data from a public land mobile network to a mobile telephone unit is disclosed. A mobile telephone unit includes means enabling the user to request downloading of tone data to the mobile telephone unit from a public land mobile network via a connection-less communications link such as the USSD or SMS. The downloaded tone data is uniquely associated with a selected telephone number within the mobile telephone unit such that a call to the mobile unit involving the telephone number initiates audio play back of the tone data.

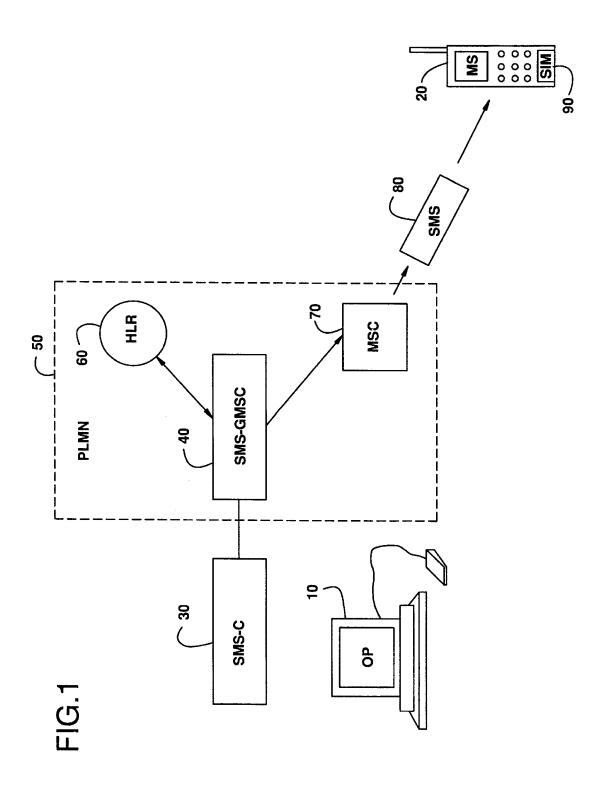
54 Claims, 4 Drawing Sheets



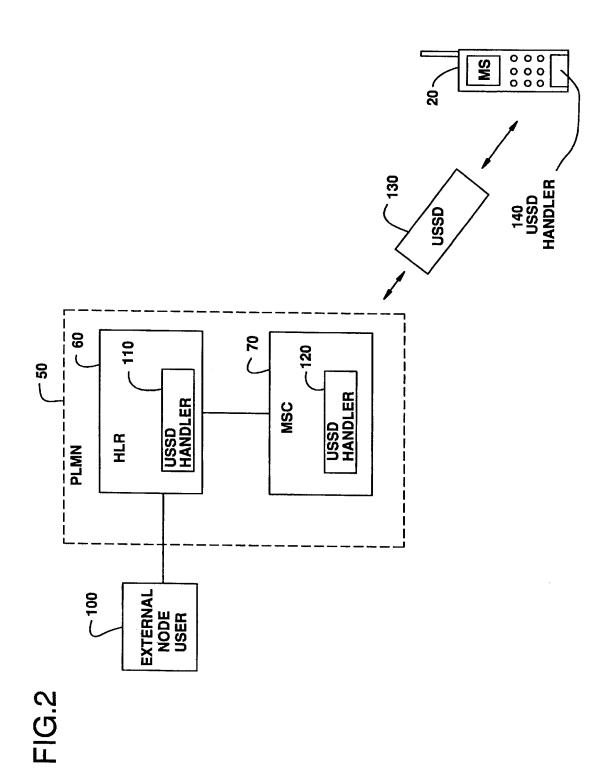


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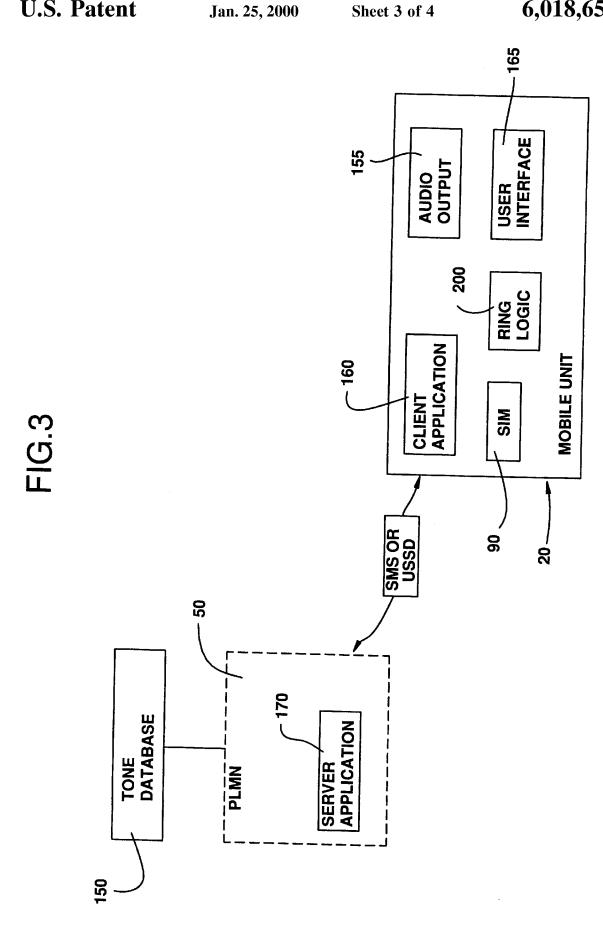
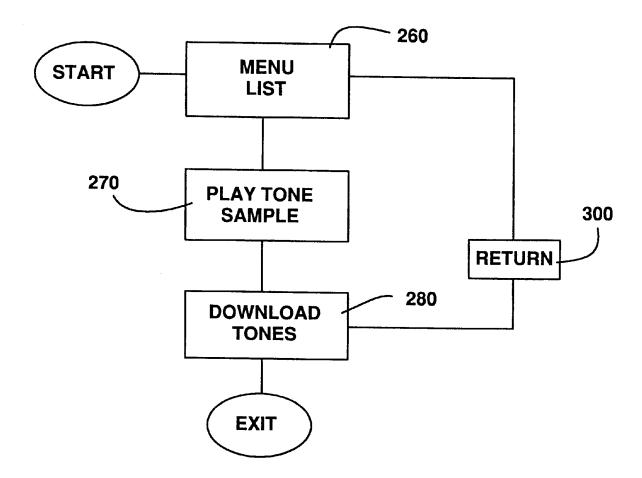




FIG.4



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