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Chennakeshu et al.

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(54) **DISTRIBUTED RADIO TELEPHONE FOR USE IN A VEHICLE**

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Related U.S. Application Data

(63) Continuation-in-part of application No. 08/989,115, filed on Dec. 11, 1997, now abandoned.

(51) **Int. Cl.**⁷ **H04B 1/38**

(52) **U.S. Cl.** **455/569; 455/575; 455/557**

(58) **Field of Search** 455/557, 556, 455/90, 575, 568, 566, 564, 565, 571, 569, 426

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Primary Examiner—Edward F. Urban

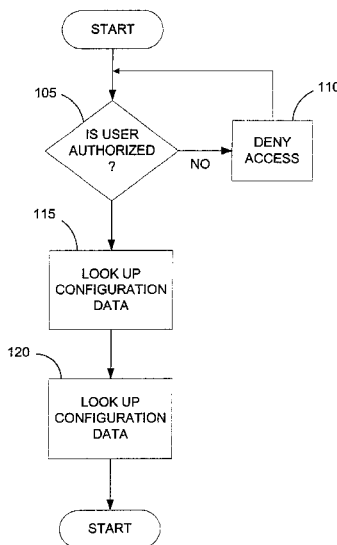
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(57) **ABSTRACT**

A vehicle mounted communication system comprises a hand held mobile phone and a hands-free unit. The hand-held unit includes a wide area transceiver for station outside of the vehicle and a short-range radio transceiver the hands-free unit includes a microphone and speaker and is mounted in a fixed location in the vehicle. A short range radio link operatively connects the hand-held unit and the hands-free unit to enable voice and data signals to be exchanged between the hand-held unit and the hands-free unit. The hands-free unit may include a programmable memory unit to store a user table containing user identification data and configuration data. The hands-free unit control logic configures the hands-free unit based on the user identification received from the hand-held unit, thus allowing multiple users to have their preferences recognized by an individual hands-free unit. The programmable memory unit and control logic may be incorporated into the vehicle's internal network for control of things like electric seats, stereo controls and the like.

17 Claims, 16 Drawing Sheets



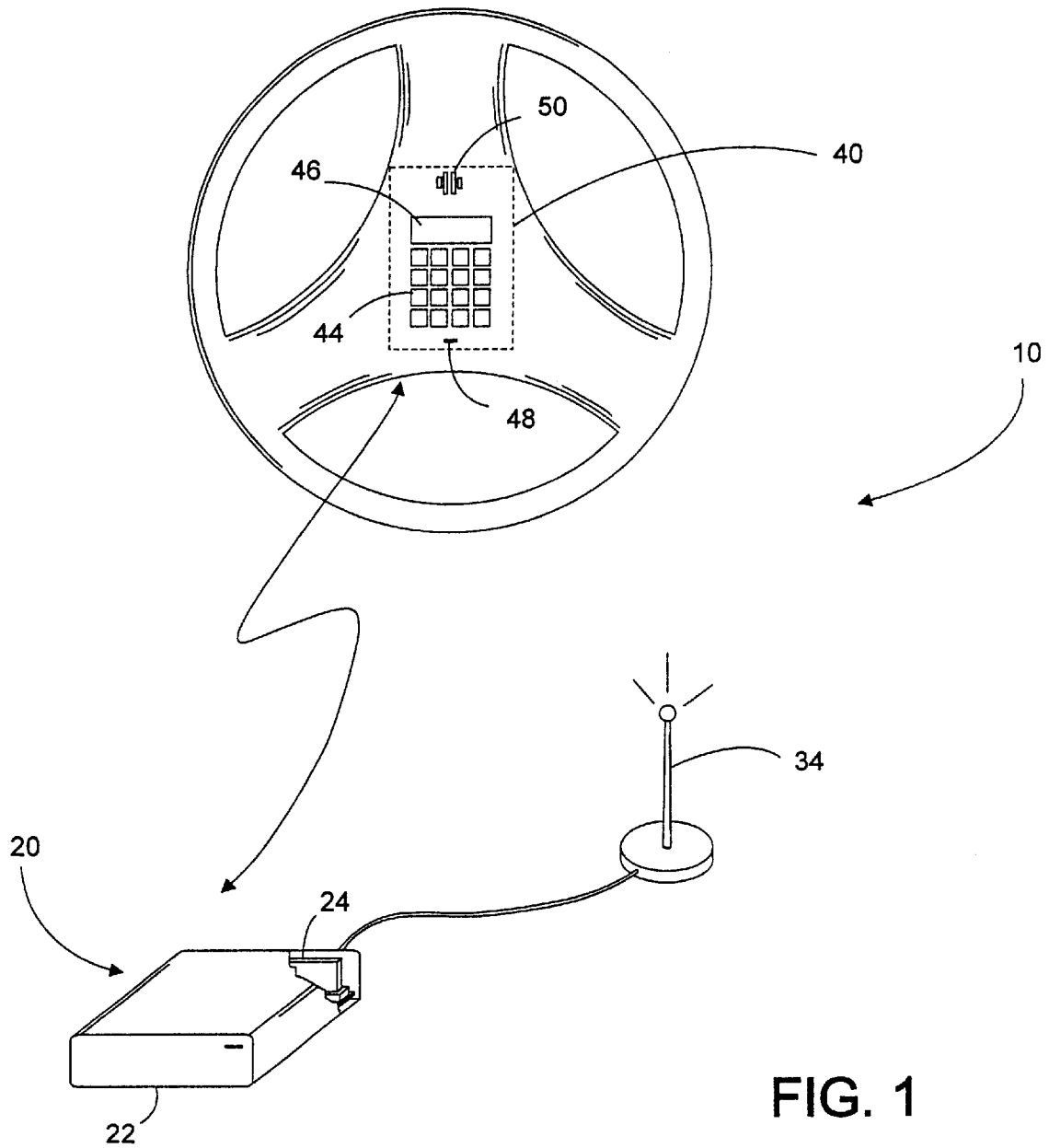


FIG. 1

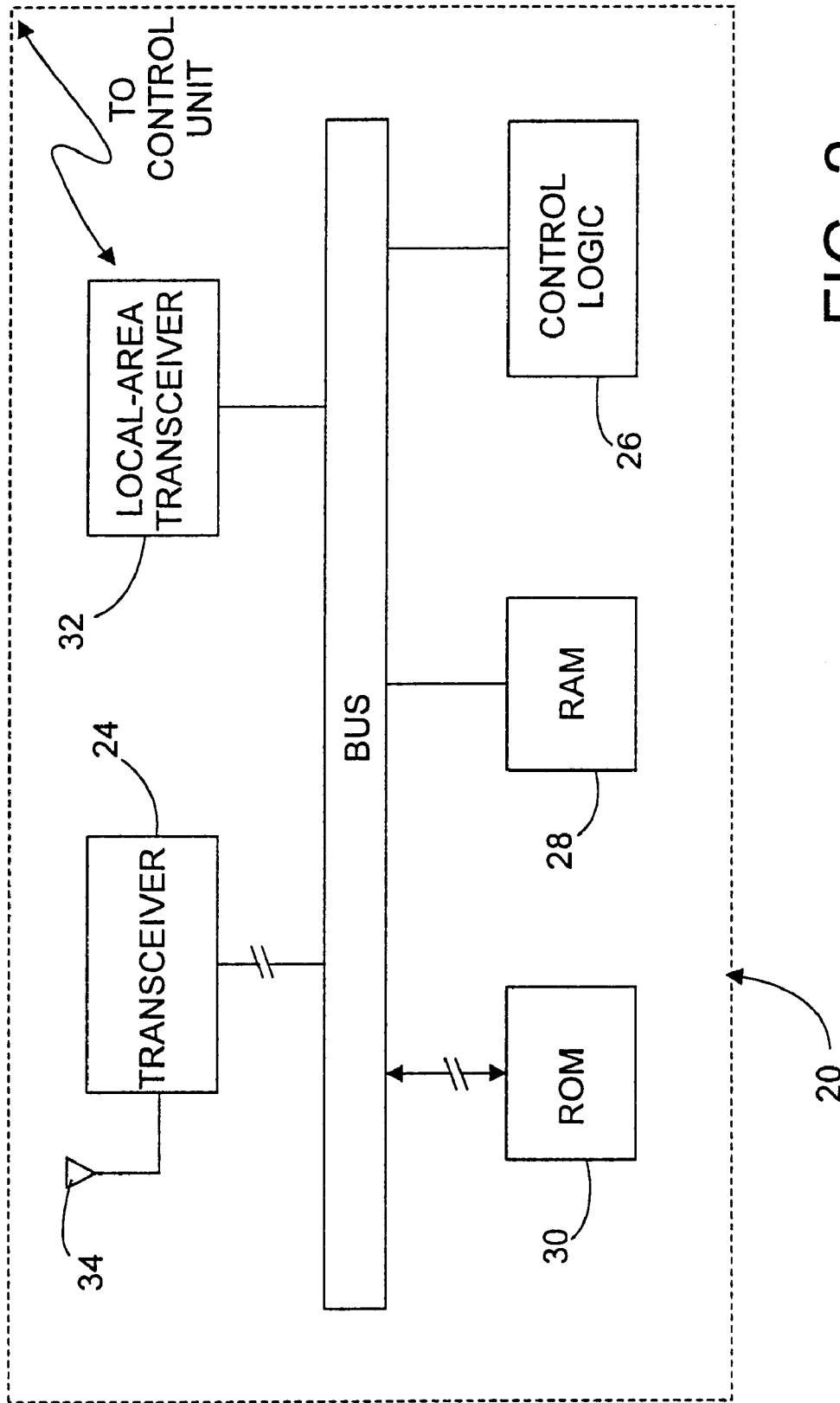


FIG. 2

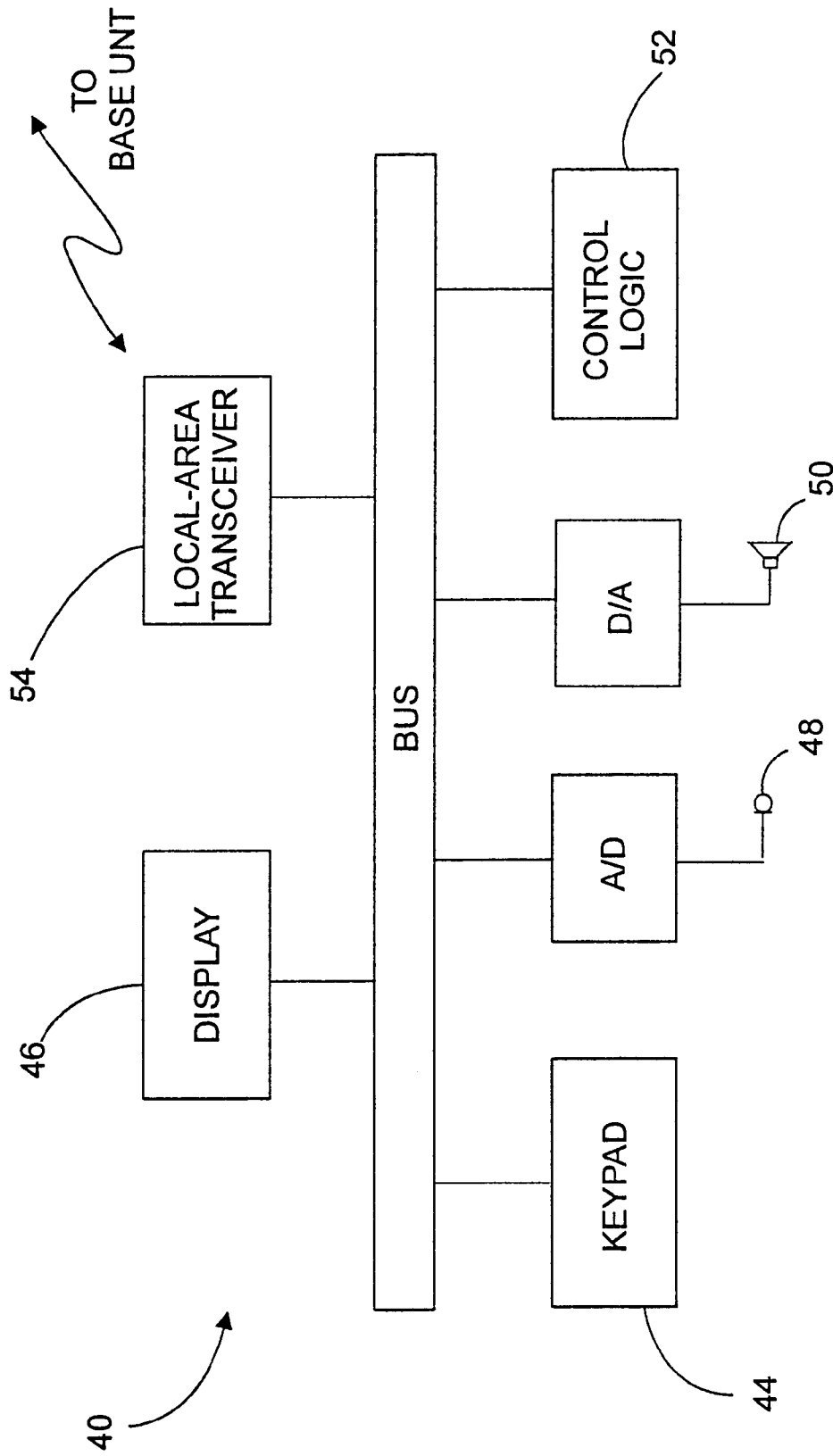


FIG. 3

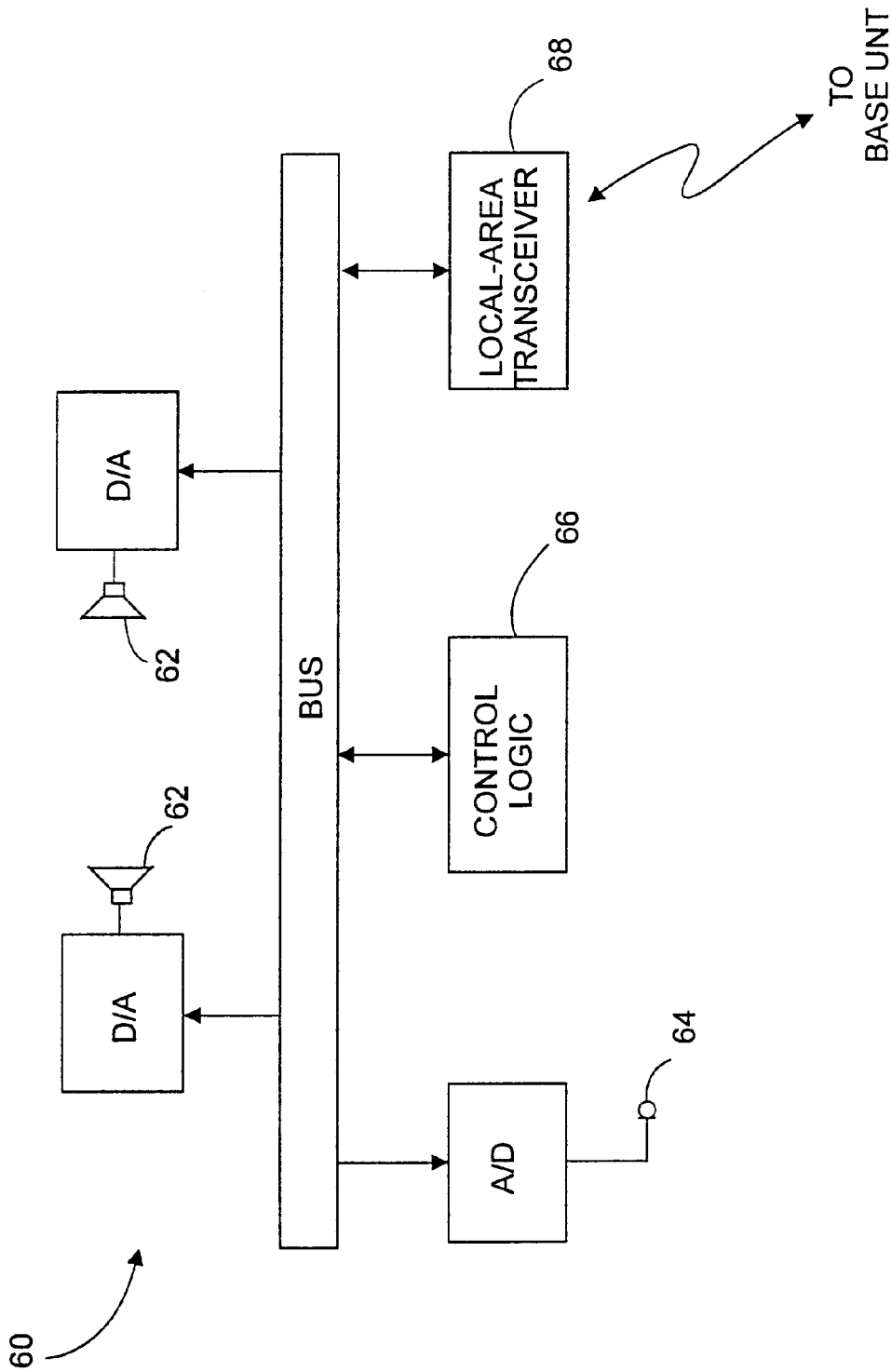


FIG.4

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