



NAVIGATION ASSISTANCE FOR CALL HANDLING IN MOBILE TELEPHONE SYSTEMS

ABSTRACT

In a mobile radio telephone system employing TDMA or CDMA, mobile units (5,7) often must determine the timing and approximate power necessary for transmissions to a base station. Information broadcast by base stations allows the mobile station to approximate its distance from each base station (1) based on an average signal strength received and thereby determine the coarse sector location. Broadcast information may include the mean radial distribution of signal strength versus distance. From the broadcast information, the mobile station (5,7) determines the propagation loss for a transmission to the base station and the appropriate power level and timing for transmissions. Accordingly, the mobile station (5,7) transmits signals to the base station (1) at the determined signal timing and power level.

FIGURE 3

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This is the replacement sheet

Date: 23 AUG 1996