

POSITIONING SYSTEM FOR DIGITAL TELEPHONE NETWORKS

ABSTRACT

5 The invention relates to a determining the position of a mobile receiver 4 in a digital
telephone network positioning system. A first receiver 3 is at a known location and others
are mobile. The method involves transmitting signals from a plurality of sources 1, the
transmission signals having a format at least a portion of which has predetermined values
or a portion of which is repeated. The time offset of the transmission signals received at
10 each receiver 4,5 from a transmission source 1 relative to a reference clock of each receiver
is determined by generating a reference signal locked to the reference clock. The reference
signal has a similar format to the transmission signals and includes a portion identical to the
predetermined values or repeated portion of the received signal and compares the received
transmission signal and the reference signal. The time delay between the respective signals
15 received at the receivers 4,5 is determined from their relative time offset, to thereby
determine the position of the other receivers 4.



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