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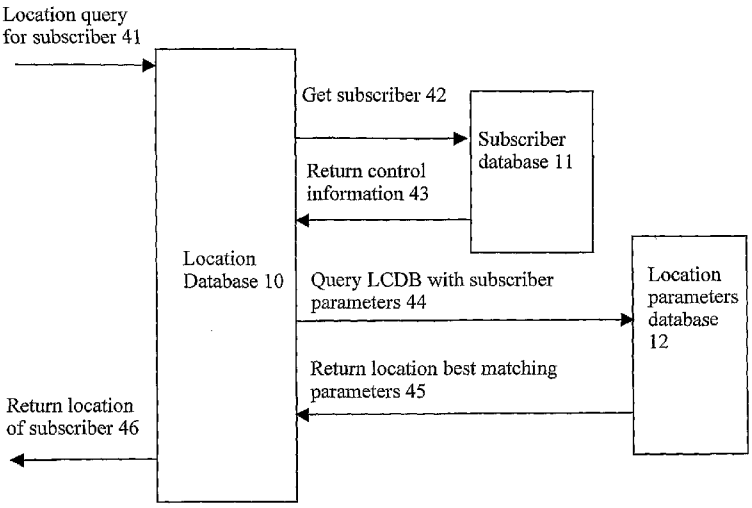
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(54) **Title:** A METHOD OF FINDING A PHYSICAL LOCATION OF A MOBILE TELEPHONE AT A GIVEN TIME



(57) **Abstract:** A subscriber database stores RF level and timing advance information associated with all mobile telephones on a network. A location parameters database stores location data that associates different physical locations with RF levels/timing advance data that have been measured or inferred for those locations. The subscriber database is then interpreted for the purpose of establishing the location of a specific mobile telephone at a given time by matching the RF level/ timing advance data for that specific mobile telephone against the location parameters database. This generate the location of the mobile telephone. The interpretation or querying of the subscriber database only occurs however when there is a request to establish the location of a specific mobile telephone, and not as an automated process applied to all mobile telephones on a network.

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