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(71) Applicant: QUALCOMM INCORPORATED [US/US]; 5775 Morehouse Drive, San Diego, CA 92121–1714 (US).

(72) Inventors: AGASHE, Parag, A.; 10173 Camino Ruiz #94, San Diego, CA 92126 (US). VAYANOS, Alkinoos, Hector; 836 Diamond Street, San Diego, CA 92109 (US). SOLIMAN, Samir, S.; 11412 Cypress Canyon Park Drive, San Diego, CA 92131 (US).

(74) Agents: WADSWORTH, Philip, R. et al.; Qualcomm Incorporated, 5775 Morehouse Drive, San Diego, CA 92121–1714 (US).

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(54) Title: METHOD AND APPARATUS FOR GPS ASSISTANCE IN A COMMUNICATION SYSTEM

(57) Abstract

A method and apparatus for efficiently transmitting location assistance information to a mobile communication device over a control channel with a minimal impact on the capacity of the control channel. A position location server provides a difference between satellite locations which have been computed using Almanac data and then Ephemeris data. Sending only the difference between the locations and clock corrections computed using the two different data types, the total amount of information to be transmitted to a mobile communication device is significantly reduced. Furthermore, by providing rate of change information, the method and apparatus allows the location assistance information to remain valid for a relatively long time after it has been received by the mobile communication device.

