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## Patent Search

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### Abstract:

The primary objective of this invention is to develop a positioning system for locating objects that does not require a global positioning system (GPS) connection module. Positioning systems are used to pinpoint the precise location of an object in three-dimensional space. For this task, users can make use of technologies that provide either global coverage to an accuracy of meters or workspace coverage to an accuracy of micrometers. When there is a clear line of sight to three or more signaling beacons on Earth, the location of which is precisely known, a local positioning system (LPS) can provide accurate location data no matter the weather or the terrain. However, local positioning systems do not provide worldwide coverage like GPS and other global navigation satellite systems. Instead, they rely on (a set of) beacons that have a finite range and need physical proximity to the user. Beacons may be found just about anywhere these days, from cellular base stations and Wi-Fi access points to radio broadcast towers. One variety of LPS, known as the "Real-time locating system," allows for the continuous monitoring of a target within a defined area, such as a building.

### Complete Specification

#### DESC:TITLE OF THE INVENTION

Design of Realtime Positioning system -A Satellite Free navigation

#### Technical Field of the Invention

[0001] This invention is about a system to make cellular networks available for Local Positioning provisioning. Specifically, it concerns an approach to providing precise Local Positioning using cellular networks.

#### Background of the Invention

[0002] Different methods have been developed by humans over time to help them locate themselves on the globe and travel from one point to another. At present, one uses satellites and a global positioning system (GPS) to ascertain exactly where one is. The ability to search for specific landmarks like restaurants, military applications, civilian social networking applications, aircraft, etc. is a handy feature offered by many GPS systems. The global positioning system (GPS) can be used to keep tabs on just about everything.

[0003] GPS is frequently used by urban people with smart phones to locate the user and route him or her to a desired destination. This GPS, on the other hand, is quite complex and expensive. This only works inside the range of the satellites. For example, somebody who travels and enjoys visiting new locations may find it difficult to locate themselves in a new location if GPS, the internet, or other technology is not available. Although GPS is a traceable technology, it is not very secure.

[0004] Prior art includes U.S. Patent No. 8478299, which offers a system and method for getting a coarse location for a mobile device. A mobile device with multiple interfaces for detecting location reference nodes in the vicinity of the mobile device and a client. A location query is submitted to the location database. The location

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