

(12) **United States Patent**
Krasner et al.

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(54) **DISTRIBUTED SATELLITE POSITION
 SYSTEM PROCESSING AND APPLICATION
 NETWORK**

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Related U.S. Application Data

(63) Continuation-in-part of application No. 08/842,559, filed on Apr. 15, 1997, which is a continuation-in-part of application No. 08/708,176, filed on Sep. 6, 1996.

(51) **Int. Cl.**⁷ **H04Q 7/20**

(52) **U.S. Cl.** **455/456; 455/12.1; 342/357.1; 342/357.09**

(58) **Field of Search** **342/357.1, 357.05, 342/357.09; 455/456, 457, 12.1**

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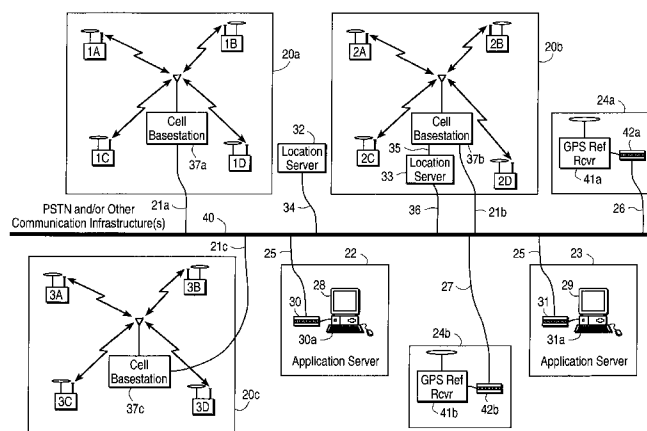
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(57) **ABSTRACT**

A system and method for processing in a distributed manner satellite position system (SPS) information. In one example of the invention, a first mobile SPS receiver receives SPS signals from a plurality of SPS satellites and transmits a position information to a wireless cell based station which is coupled to a first communication network. The wireless cell based station is coupled to a first digital processing system which receives the position information from the wireless cell based station and calculates a location of the first mobile SPS receiver based upon the position information. The first digital processing transmits this location, usually without any presentation of this location on the first digital processing system, to a remotely located application digital processing system which presents the location to a user of the application digital processing system.

61 Claims, 9 Drawing Sheets



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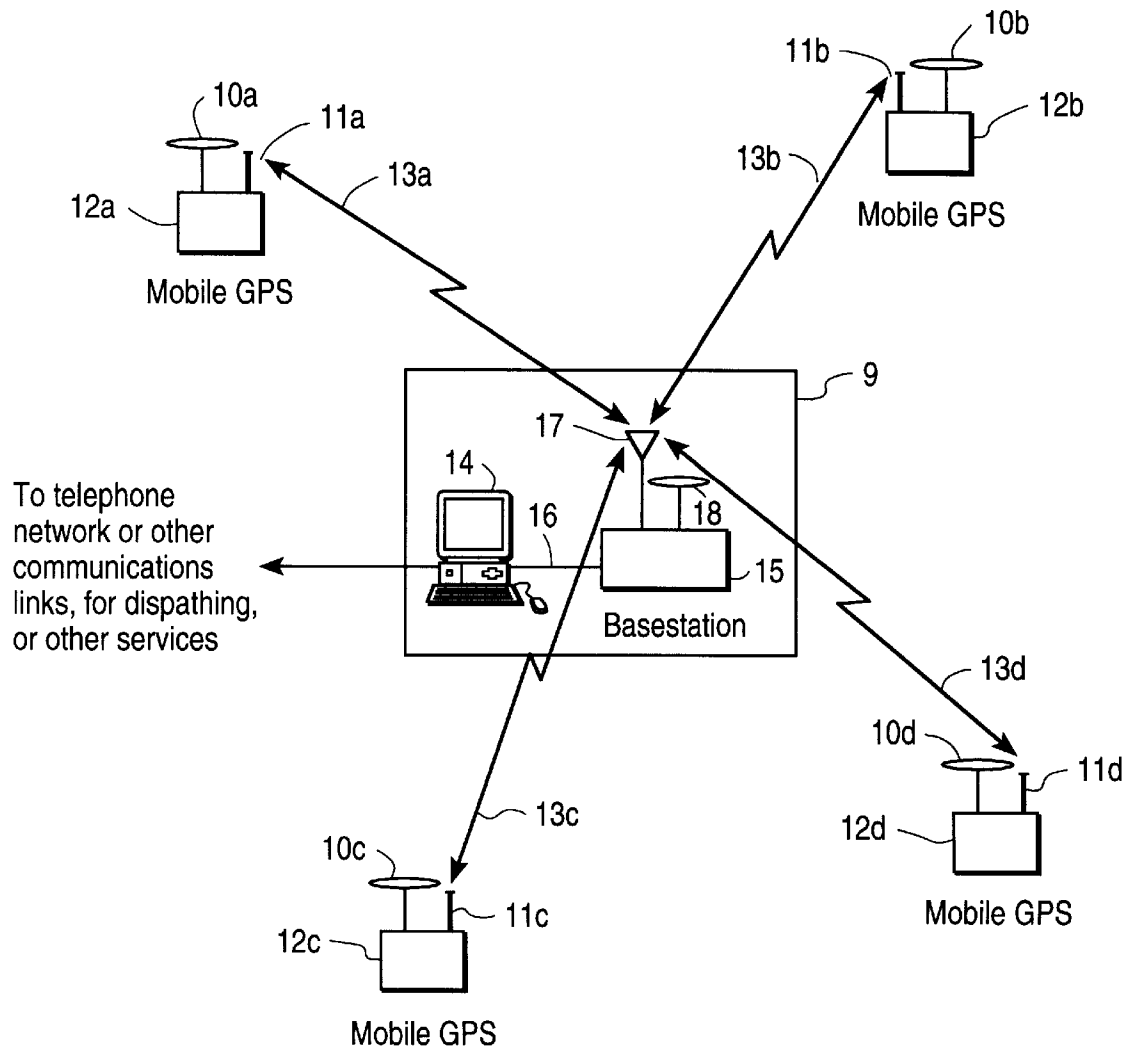


FIG. 1

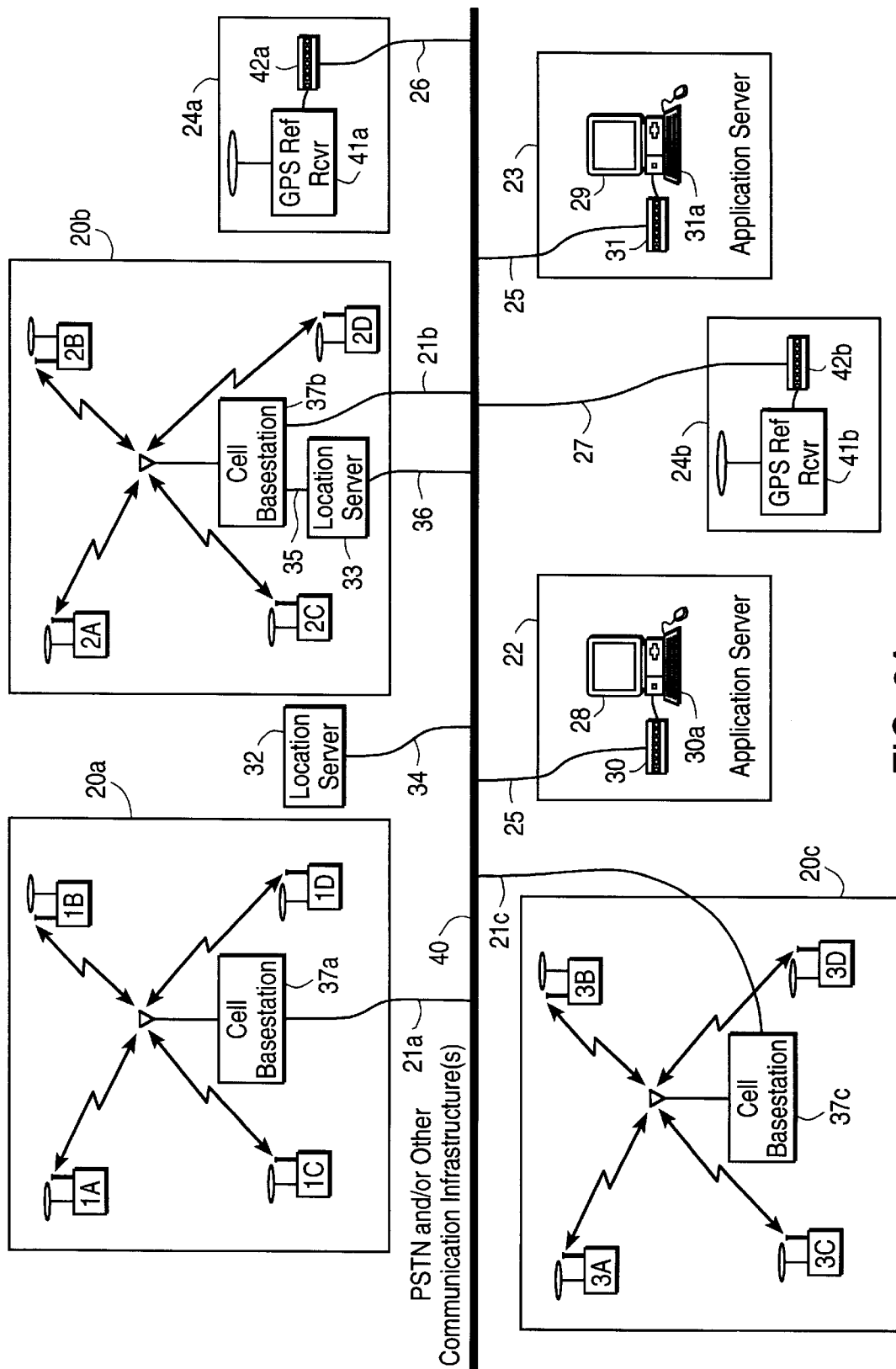


FIG. 2A

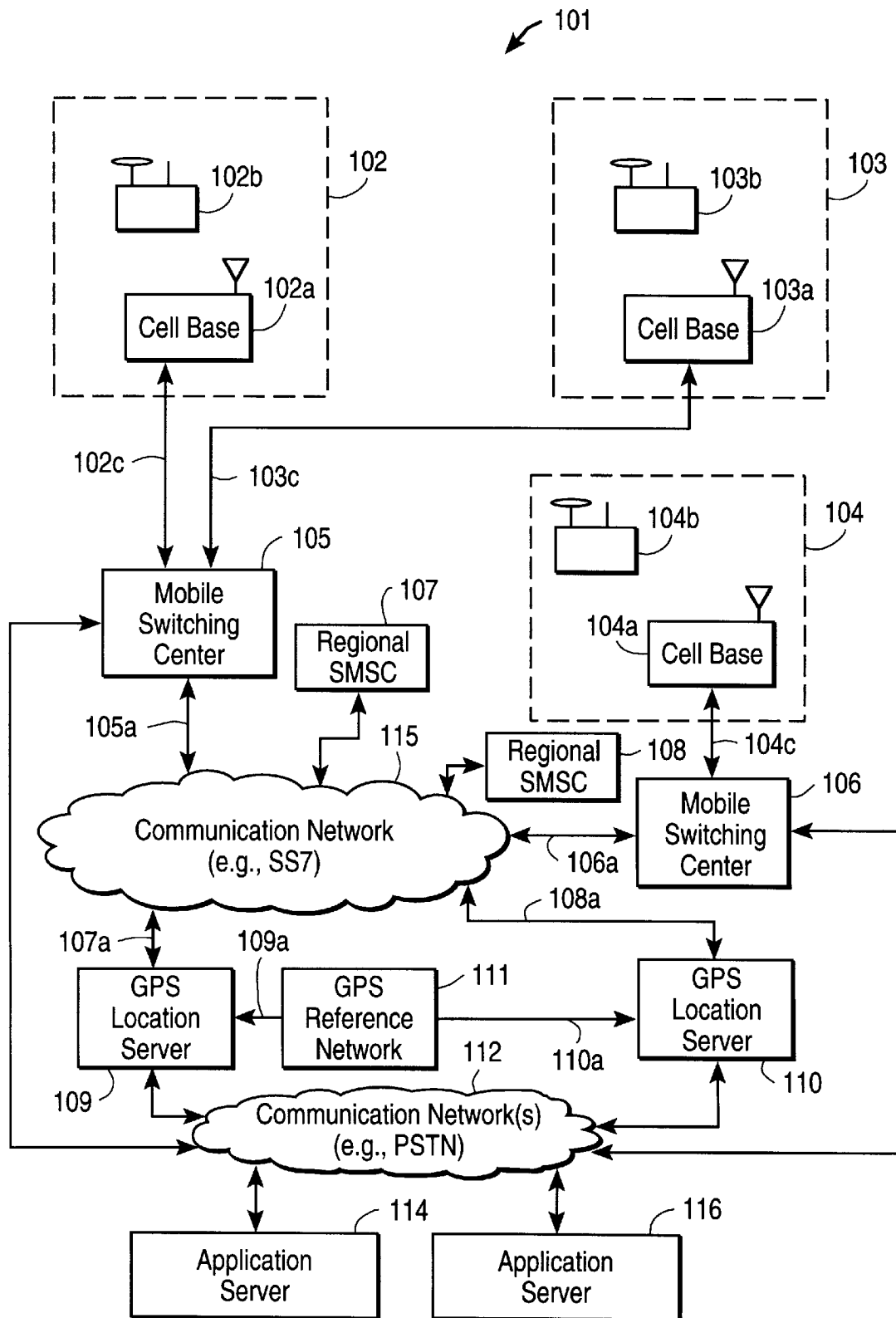


FIG. 2B

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