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Nanda et al.

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(54) **METHOD AND APPARATUS FOR LOCATING A WIRELESS LOCAL AREA NETWORK IN A WIDE AREA NETWORK**

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(52) **U.S. Cl.**
USPC **370/332; 370/335; 370/491**

(58) **Field of Classification Search**
USPC **370/335, 320, 342, 441; 455/456.1, 455/424, 446, 434, 440, 437, 456**
See application file for complete search history.

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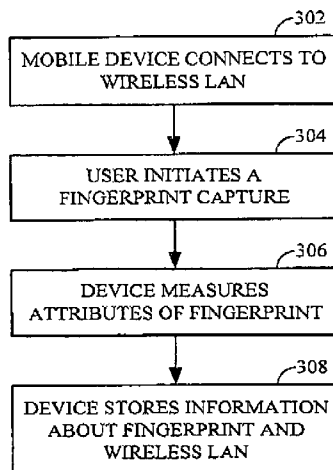
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(57) **ABSTRACT**

The disclosure is directed to a mobile communication device that measures characteristics or attributes of a first communications network that vary according to physical location within that first communications network to create a fingerprint, or signature, of a location within the first communications network. When the fingerprint of the current location of the mobile device is created it can be compared to a known fingerprint associated with a second communication network to determine the mobile device's proximity to the second communications network. For example, the first communications network may be a CDMA wide area wireless communication network and the second communications network may be a 802.11 wireless LAN.

37 Claims, 5 Drawing Sheets



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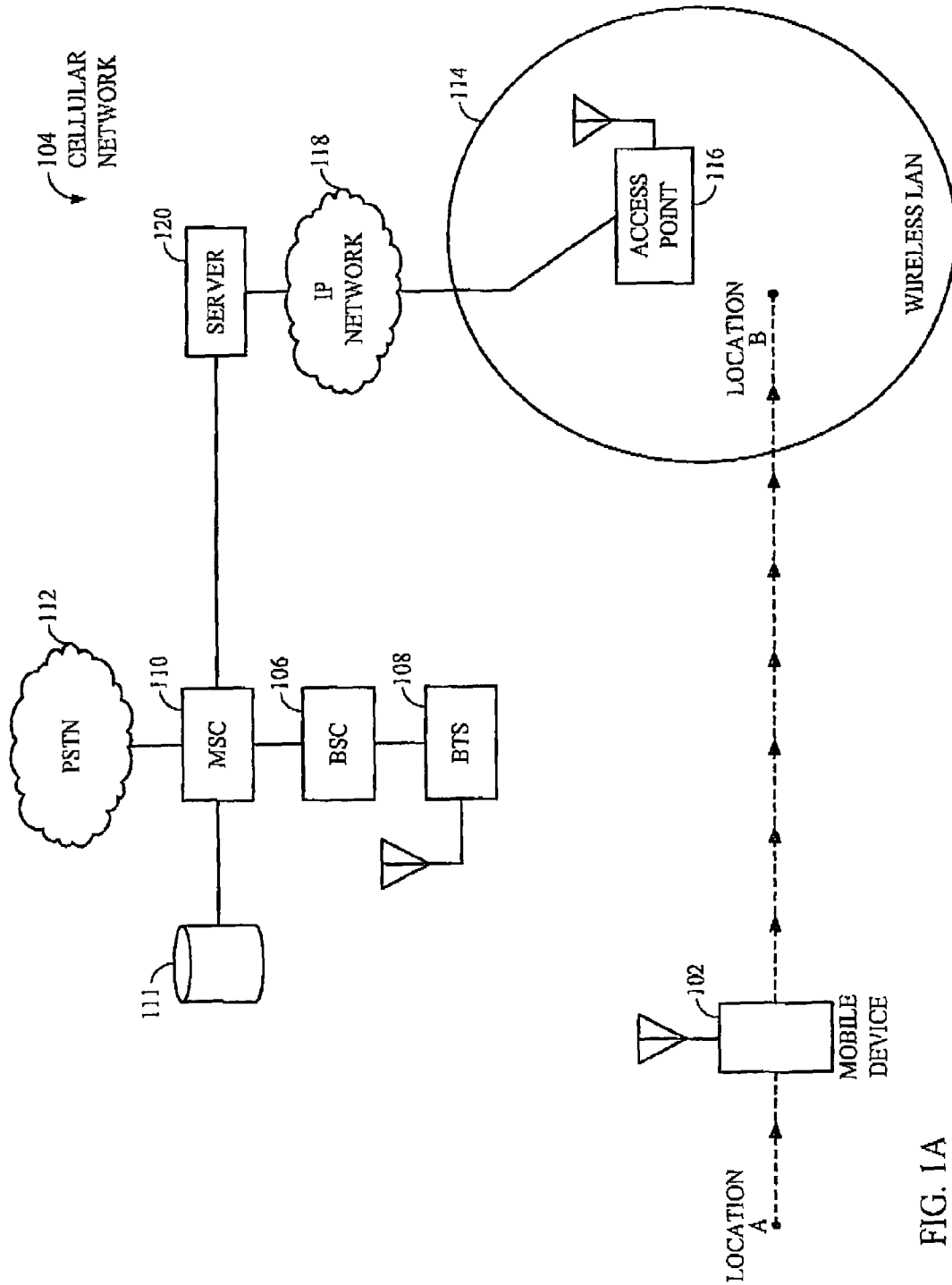
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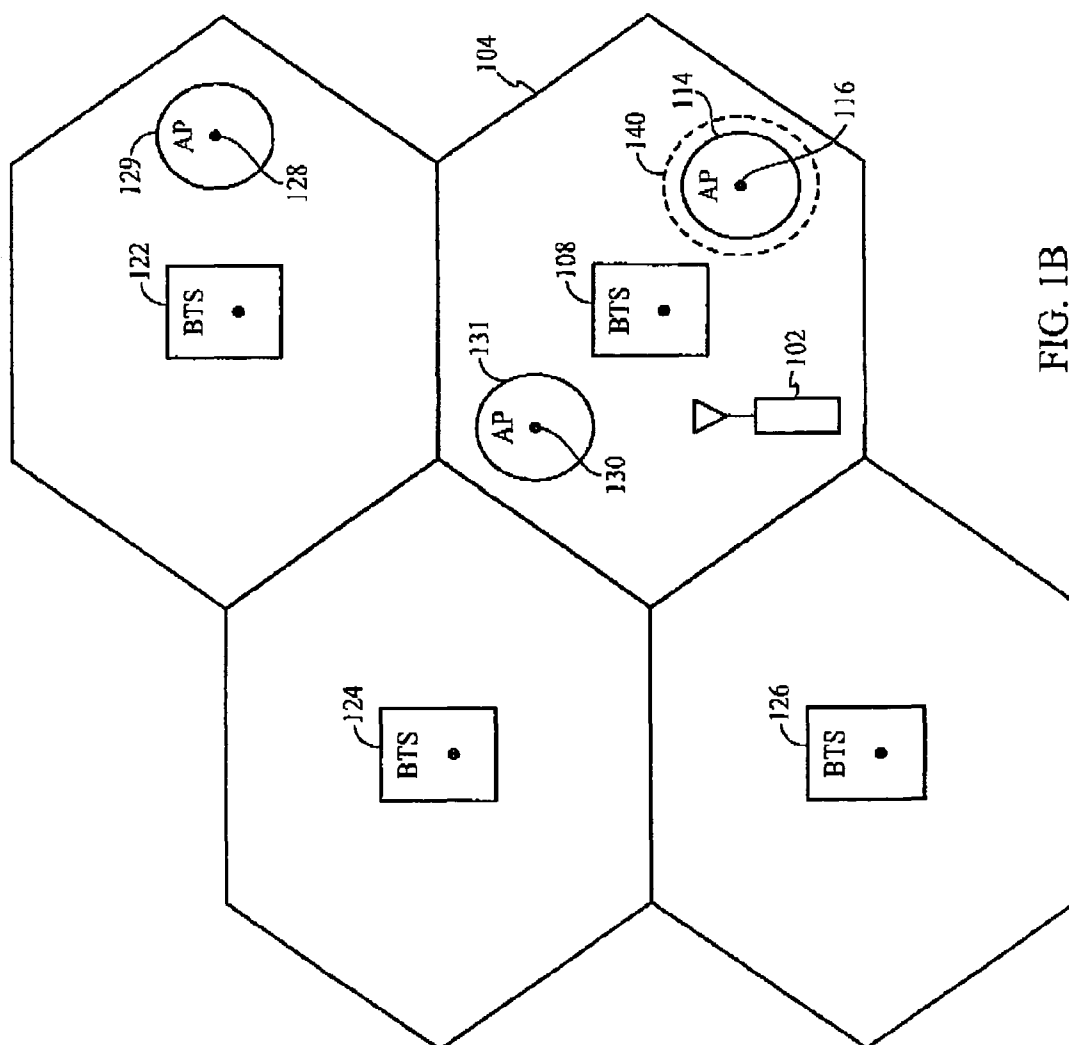
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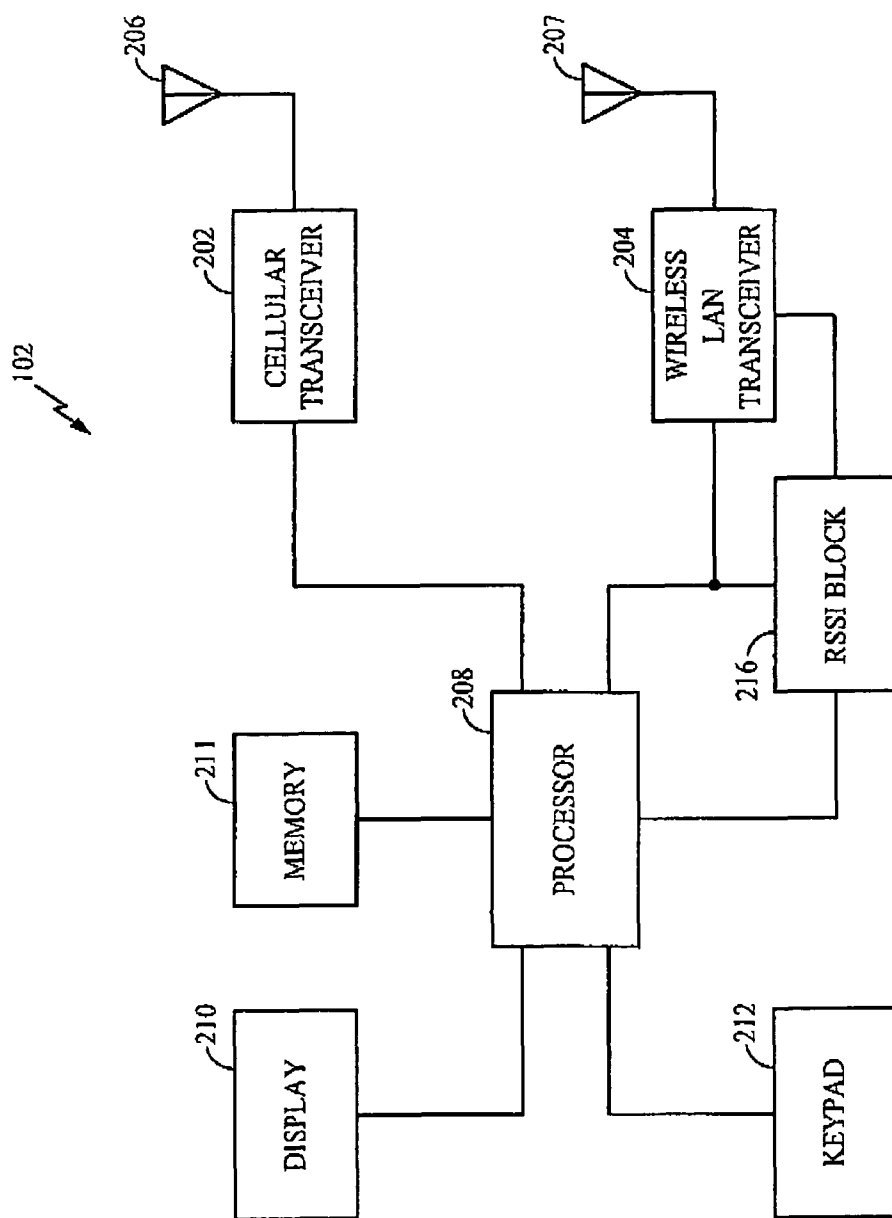


FIG. 2

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