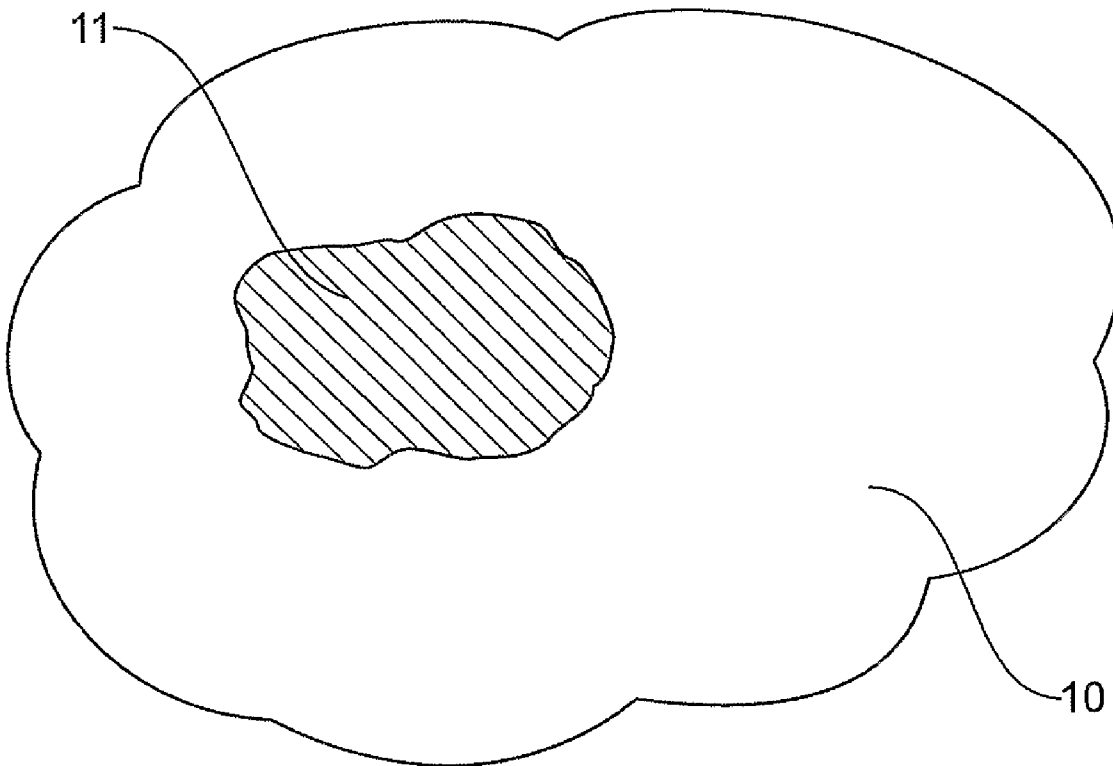




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MacNaughtan et al.(10) **Pub. No.: US 2009/0075651 A1**(43) **Pub. Date: Mar. 19, 2009**(54) **ENHANCED TERRESTRIAL MOBILE
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H04W 4/00 (2009.01)
(52) **U.S. Cl.** **455/434**(57) **ABSTRACT**

Methods and systems for determining whether a mobile radio terminal is on or out of a zone in a radio communications network. The methods and systems provide for generating a profile representative of the zone using measurements taken by the mobile radio terminal and/or the network and/or using predicted values. A comparison is then made between subsequent measurements or values and the profile to make a determination as to whether the mobile radio terminal is in or out of the zone. The methods and systems are applicable to any zone-based application including differential call charging, security applications, buddy finder services, mobile gaming and location based services in general.



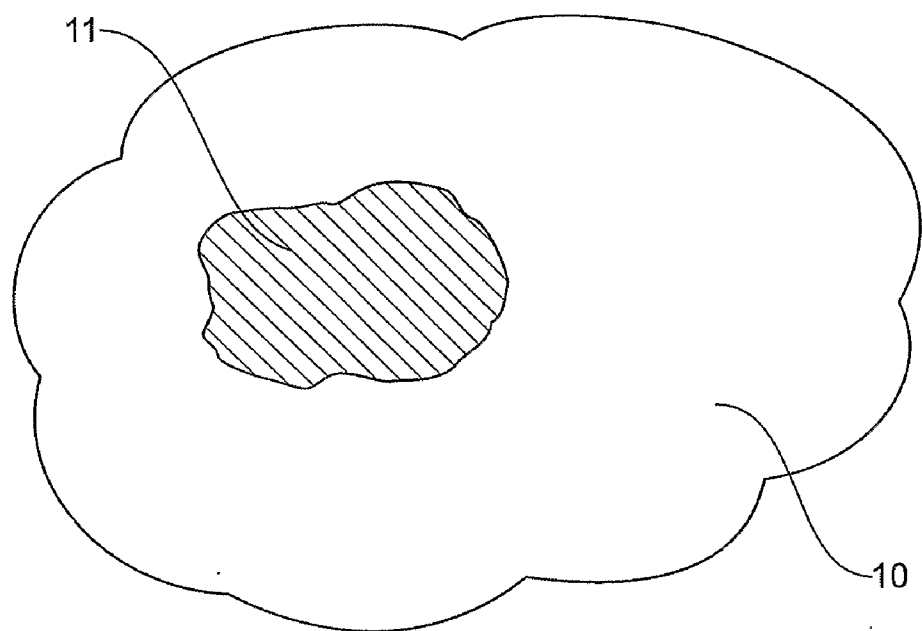


Figure 1

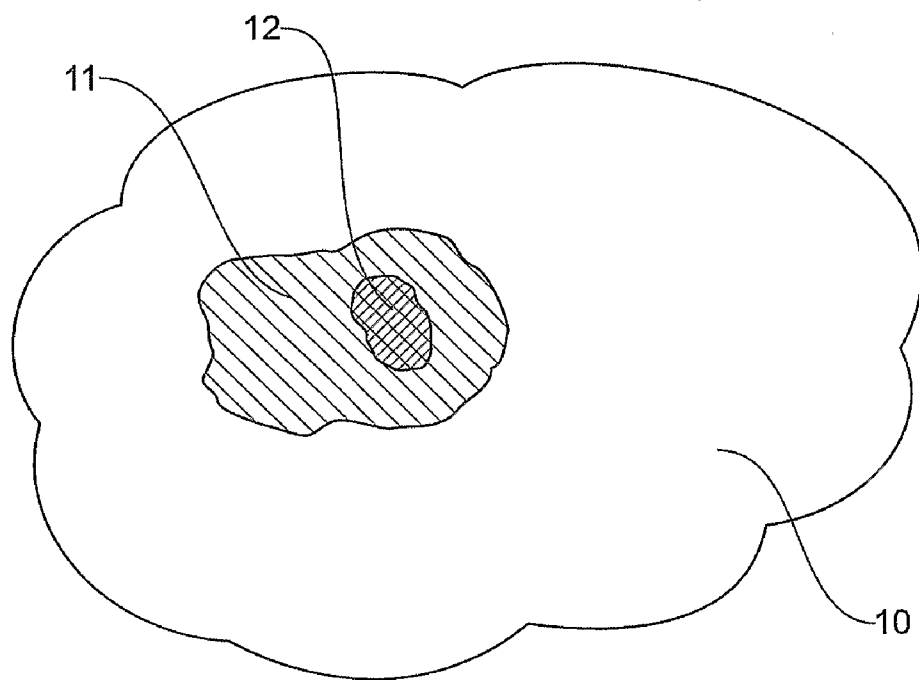


Figure 2

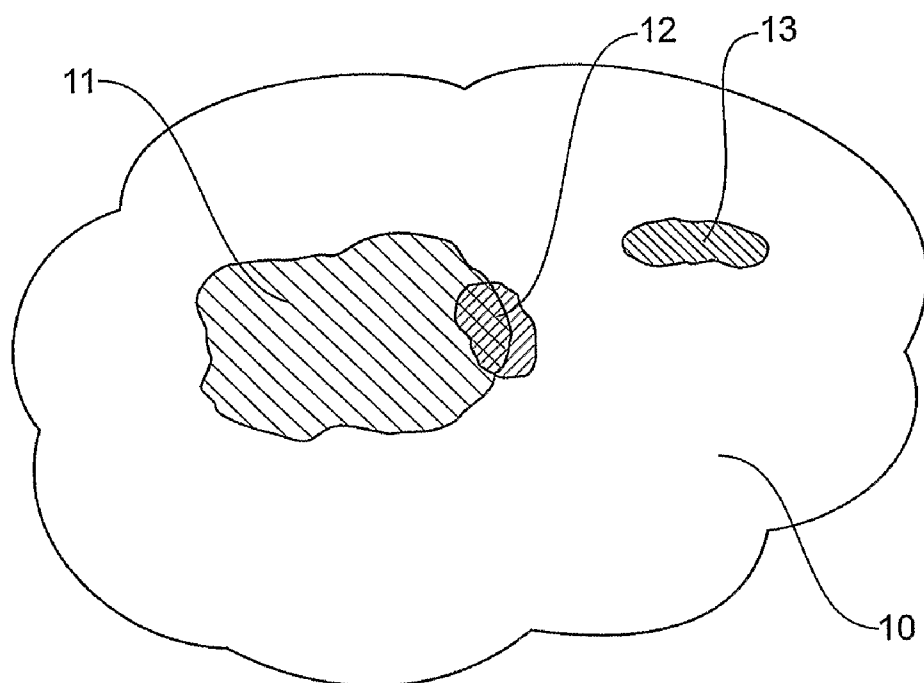


Figure 3

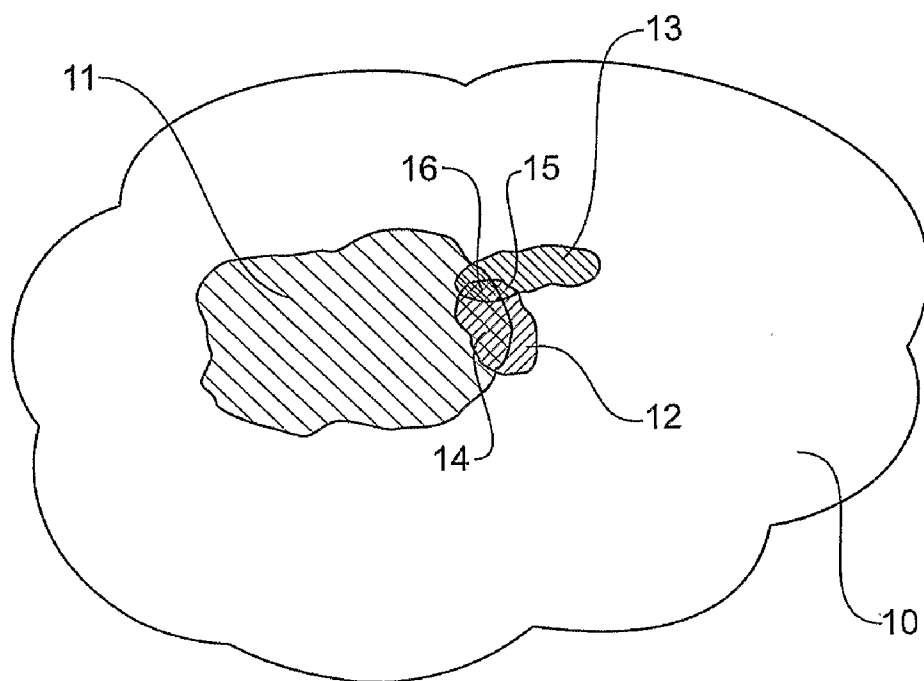


Figure 4

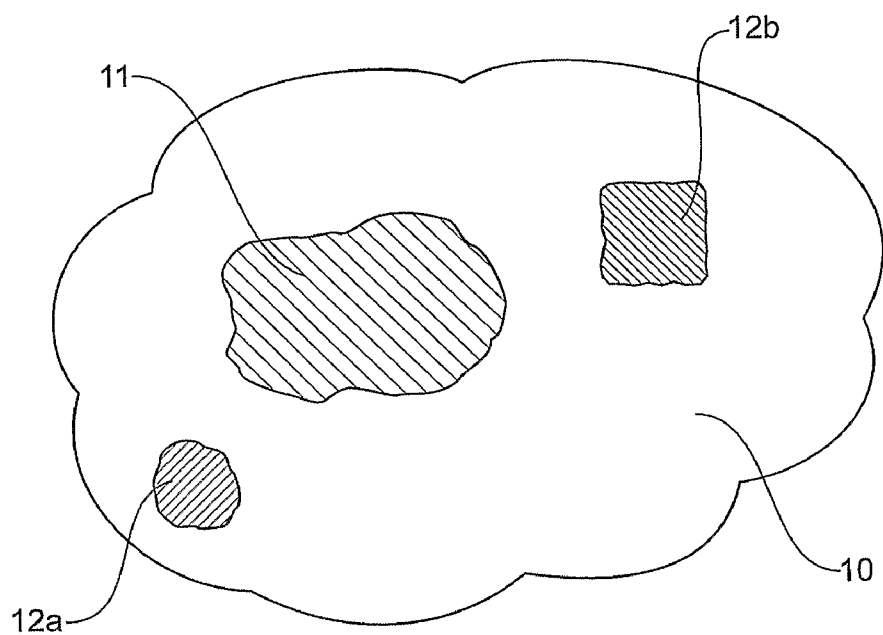


Figure 5

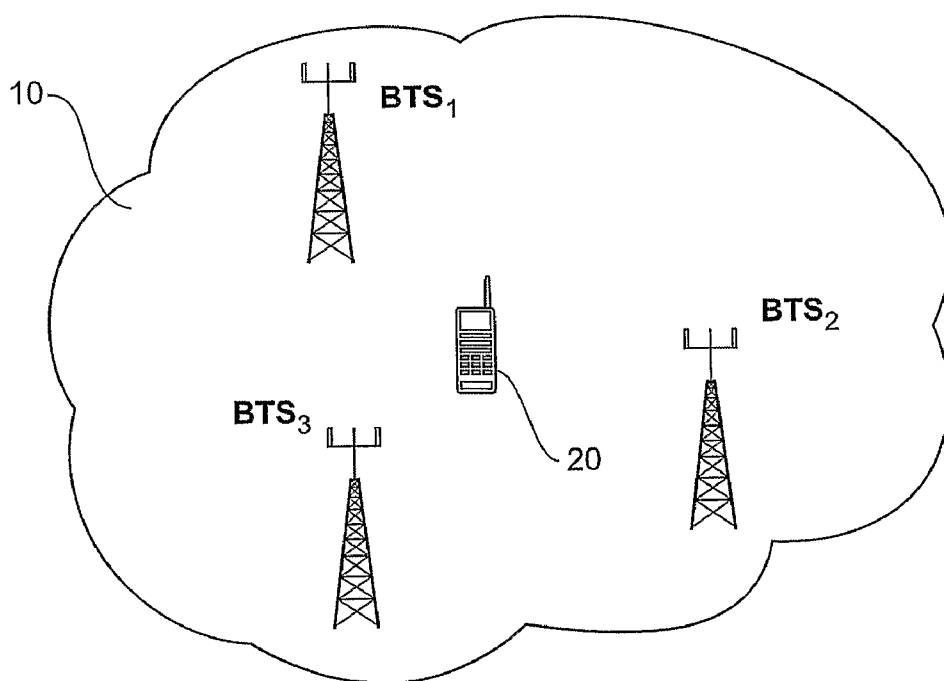


Figure 6

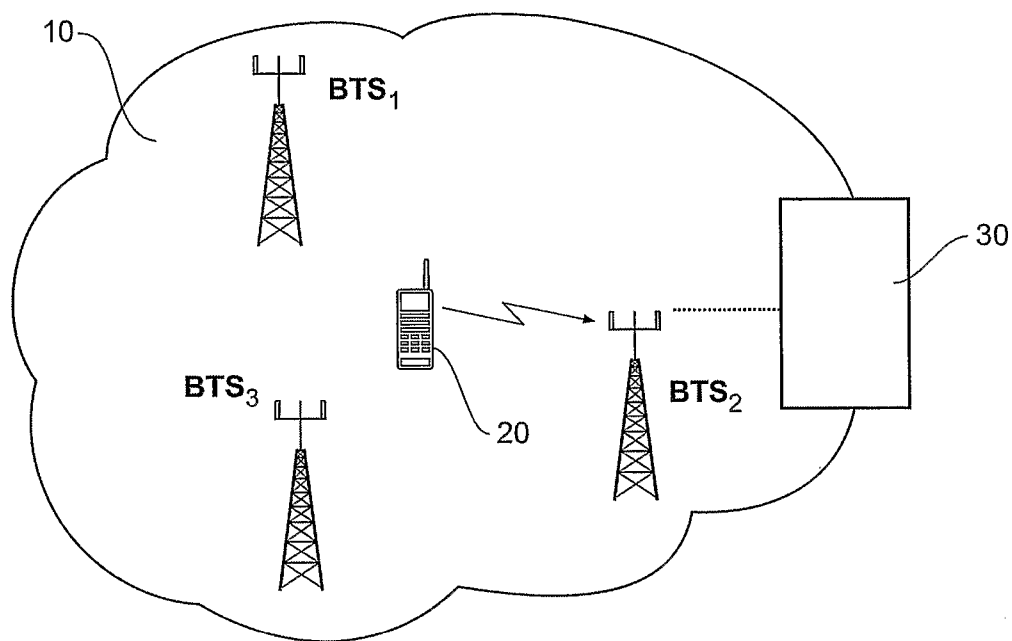


Figure 7

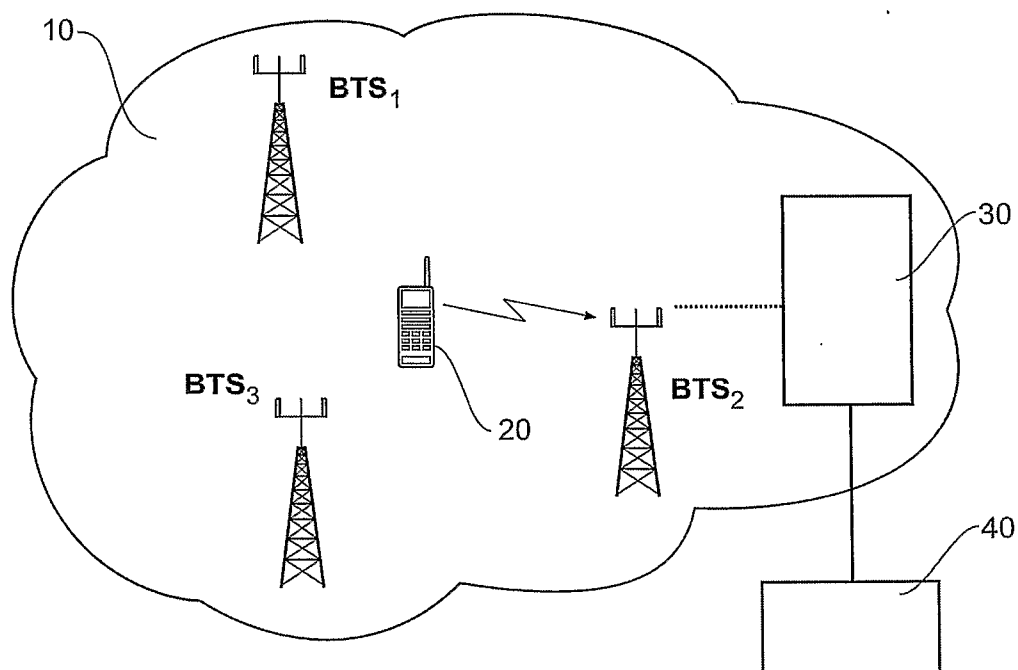


Figure 8

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