

(54) **THREE-DIMENSIONAL GPS-ASSISTED TRACKING DEVICE**

(52) **U.S. Cl. .... 701/213; 342/357.07**

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(57) **ABSTRACT**

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The present invention generally relates to systems, methods and applications utilizing the convergence of any combination of the following three technologies: wireless positioning or localization technology, wireless communications technology and sensor technology. In particular, certain embodiments of the present invention relate to a system for tracking and locating a person, an animal or an object three-dimensionally having at least one remote localization and sensing device, each device having a processing unit for calculating location coordinates; an information storage device for storing directional, distance, physiological and identification data; at least one sensor for providing sensor data; an accelerometer for providing speed and distance data; a magnetic flux gate sensor for providing directional data; and a transceiver for communicating location and sensor data to an ASP. The present invention also relates to various applications and systems utilizing the capabilities of such a device.

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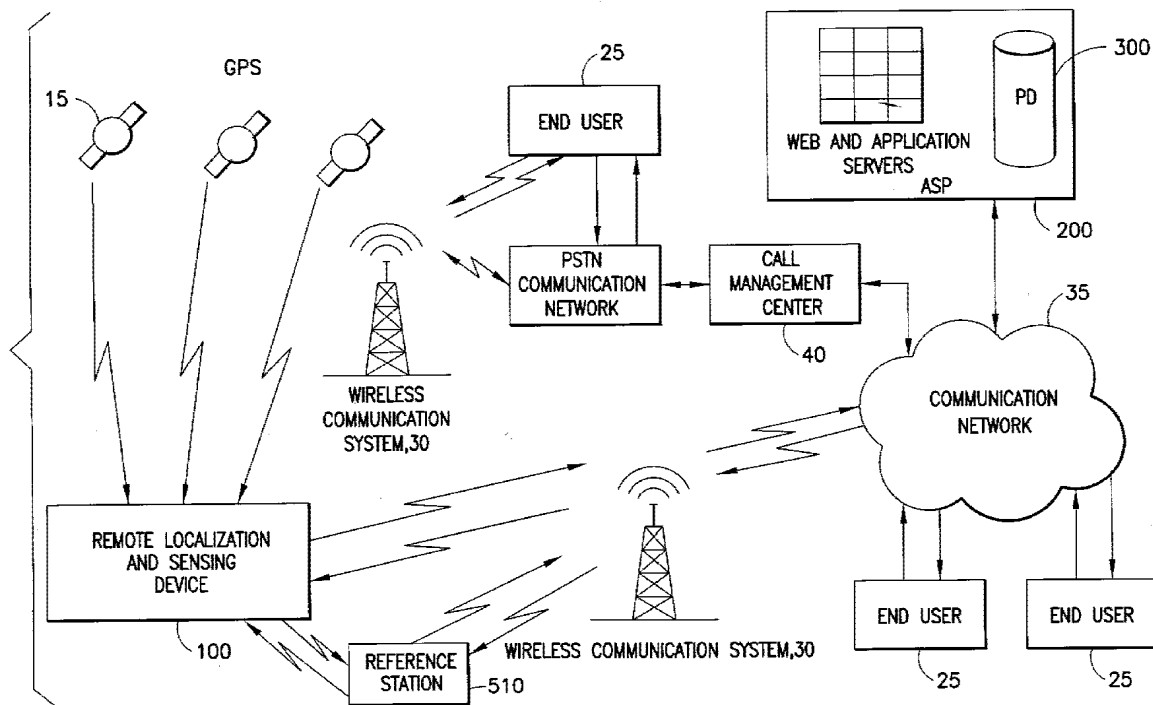
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**Related U.S. Application Data**

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**Publication Classification**

(51) **Int. Cl.<sup>7</sup> ..... G01S 1/00**



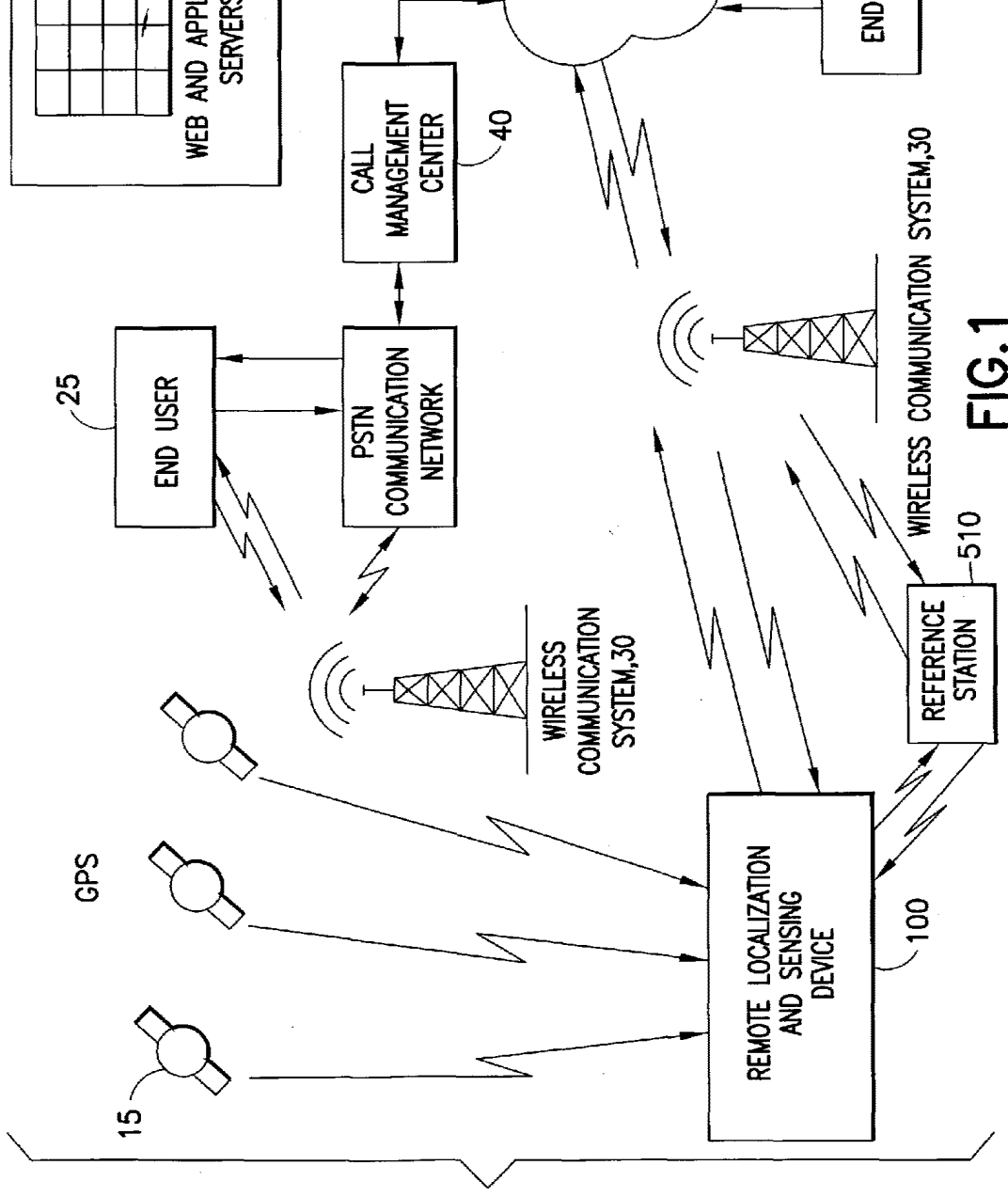


FIG. 1

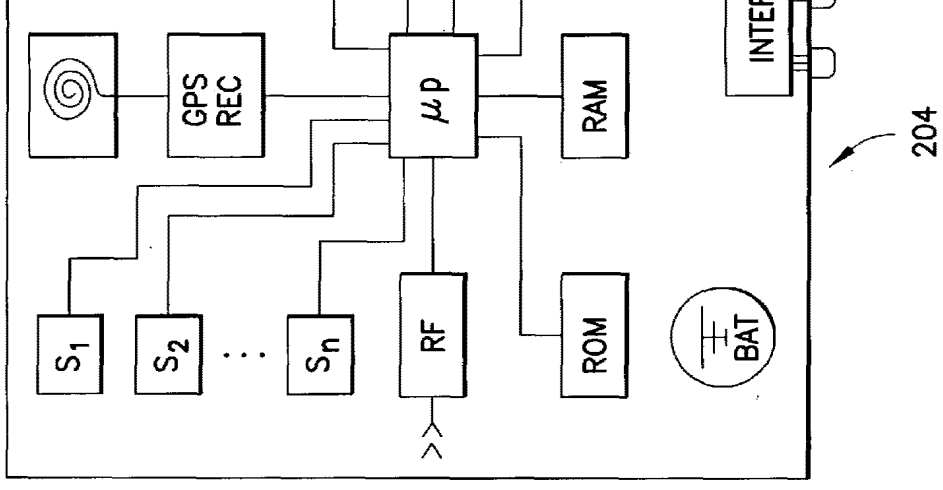
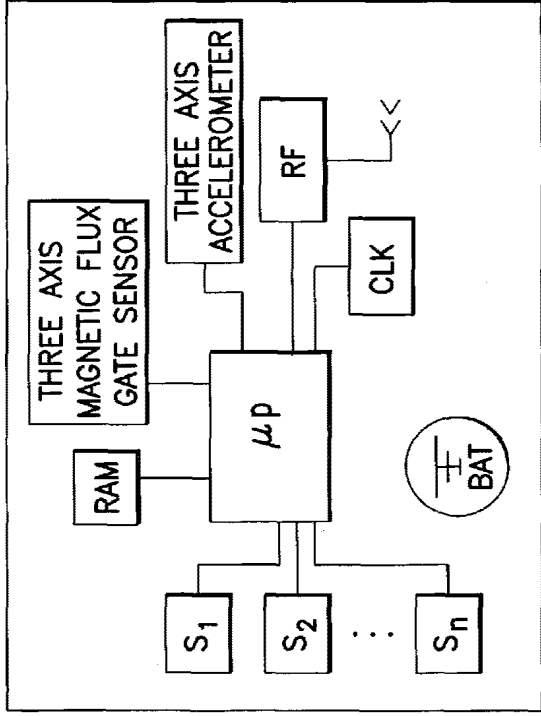


FIG. 2a

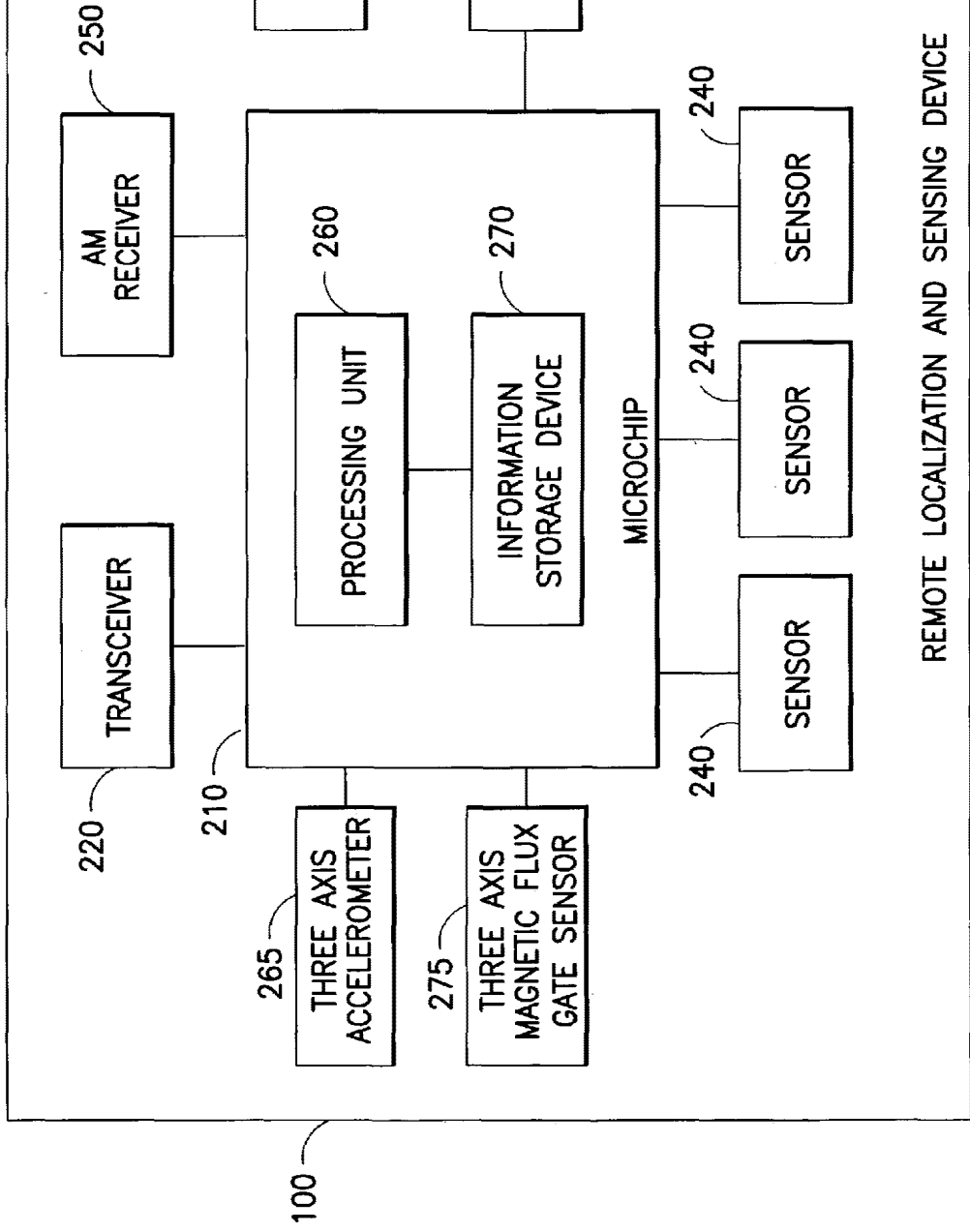
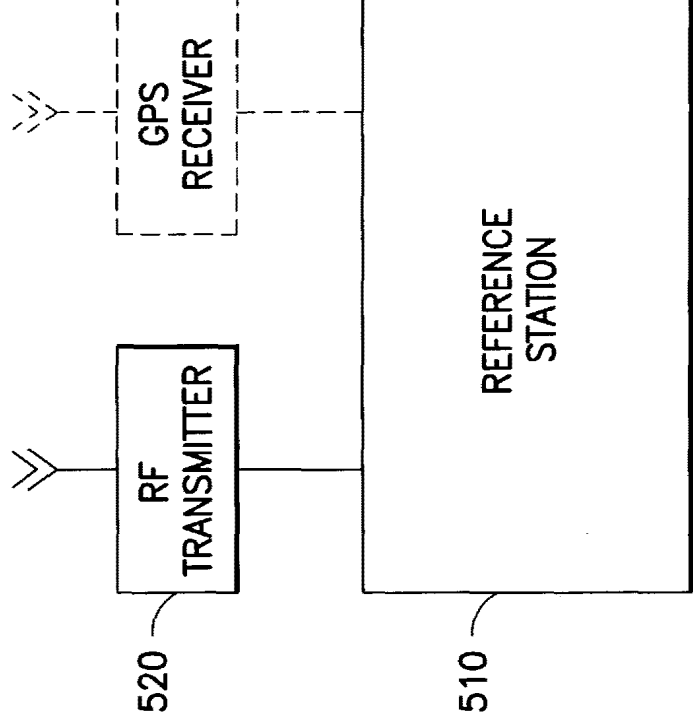


FIG.2b



**FIG.3**

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