

ABSTRACT

A monitoring circuit configured to be installed within a rechargeable battery, wherein the monitoring circuit is initially configured to function in a storage mode and consume minimal current, wherein the monitoring circuit in storage mode is configured to identify if the rechargeable battery is deployed in a consumer system, then the monitoring circuit changes to a consumer mode in which the monitoring circuit samples the status of the rechargeable battery based on a sensor and/or a global positioning chip, records information of sampling the status in the memory and periodically communicates with a server to transmit the recorded information and receive instructions from the server, wherein in consumer mode if the processor identifies an abnormal event the monitoring circuit changes to function in a movement mode in which it continuously communicates the location of the monitoring circuit to the server.

Fig. 1