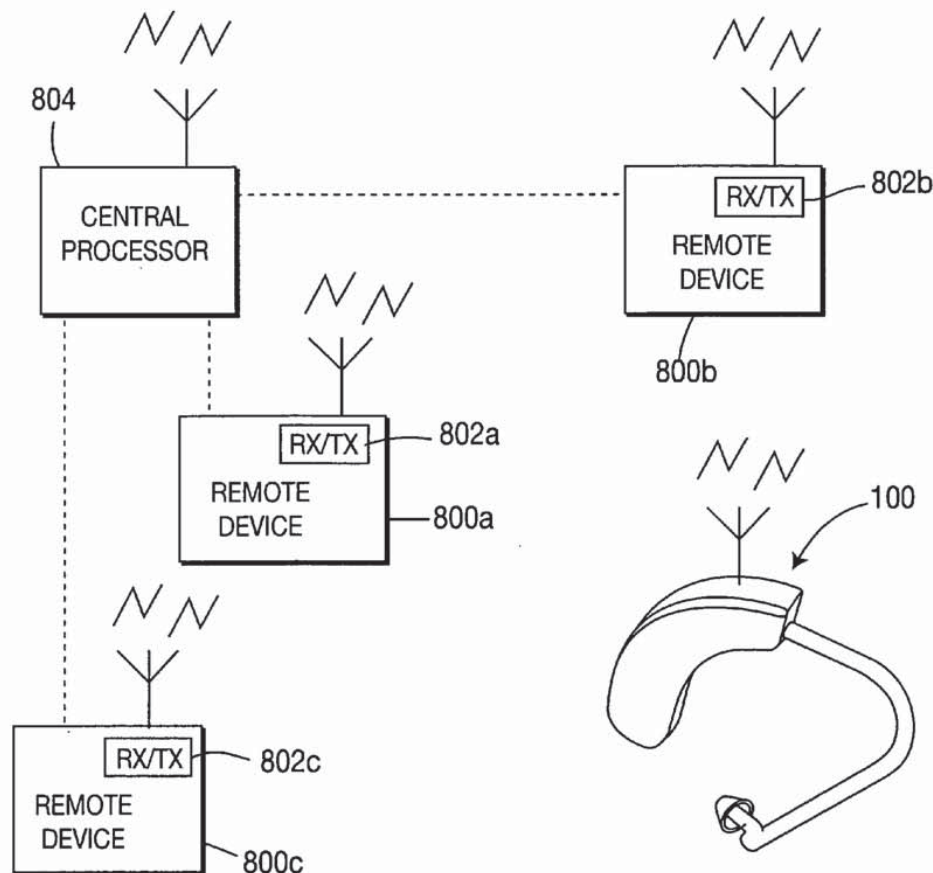


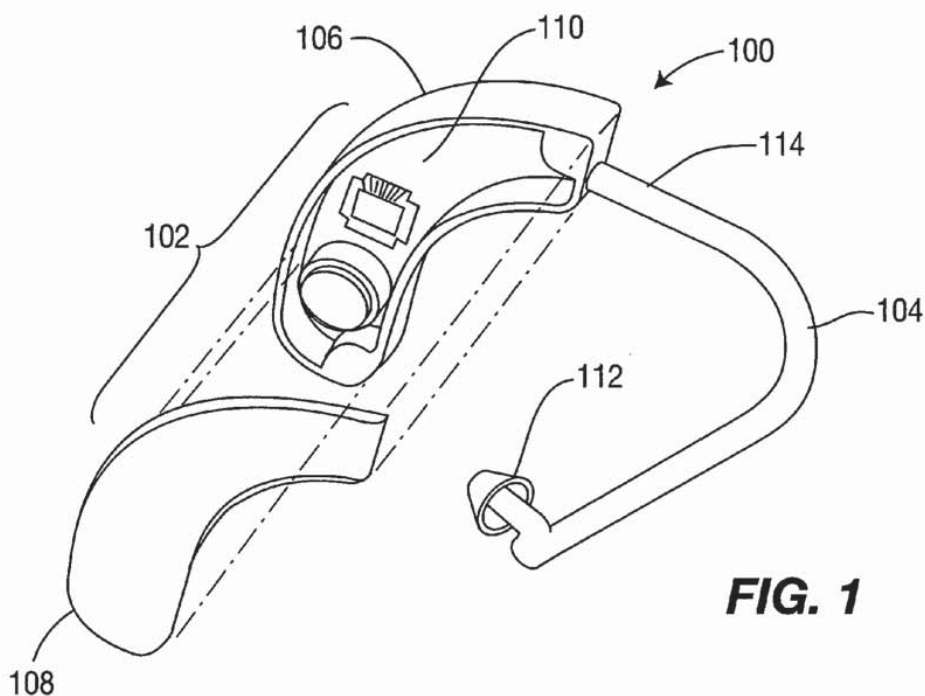


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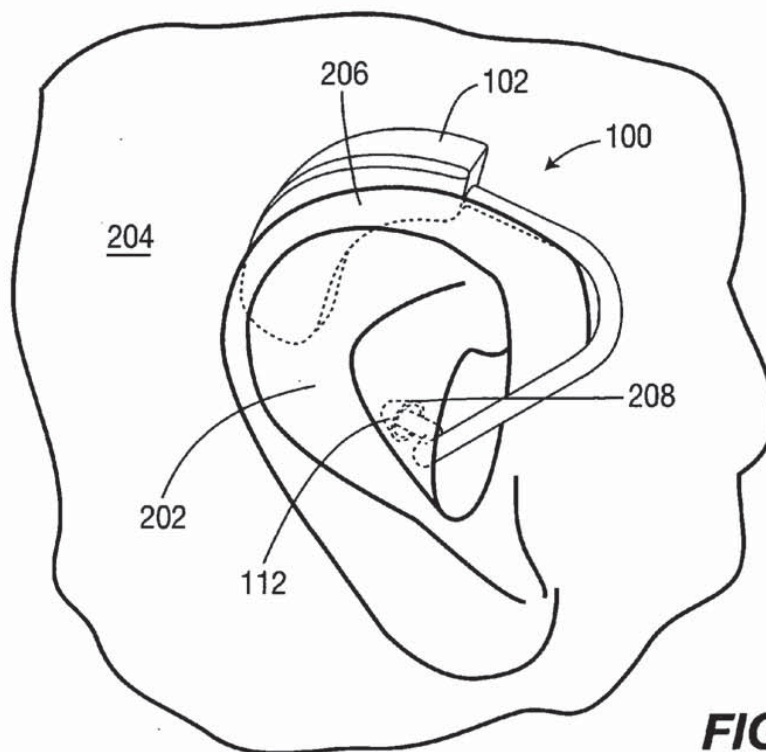
(19) **United States**(12) **Patent Application Publication**  
**Aceti**(10) **Pub. No.: US 2005/0059870 A1**(43) **Pub. Date: Mar. 17, 2005**(54) **PROCESSING METHODS AND APPARATUS  
FOR MONITORING PHYSIOLOGICAL  
PARAMETERS USING PHYSIOLOGICAL  
CHARACTERISTICS PRESENT WITHIN AN  
AUDITORY CANAL****Publication Classification**(51) **Int. Cl.<sup>7</sup>** ..... A61B 5/00; A61B 5/11;  
A61B 10/00(52) **U.S. Cl.** ..... 600/340; 600/595; 600/549;  
600/551; 128/903(76) **Inventor: John Gregory Aceti, West Windsor, NJ  
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**VALLEY FORGE, PA 19482-0980 (US)**(21) **Appl. No.: 10/925,765**(22) **Filed: Aug. 25, 2004****Related U.S. Application Data**(60) **Provisional application No. 60/497,890, filed on Aug.  
25, 2003.**(57) **ABSTRACT**

Methods and apparatus for monitoring at least one physiological parameter of an animal from one or more physiological characteristics present within an auditory canal of the animal. Physiological parameters are measured by sensing at least one physiological characteristic present within the auditory canal of the animal, the at least one physiological characteristic associated with a physiological parameter, and processing the at least one sensed physiological characteristic at a device positioned remotely from the auditory canal to determine the physiological parameter.

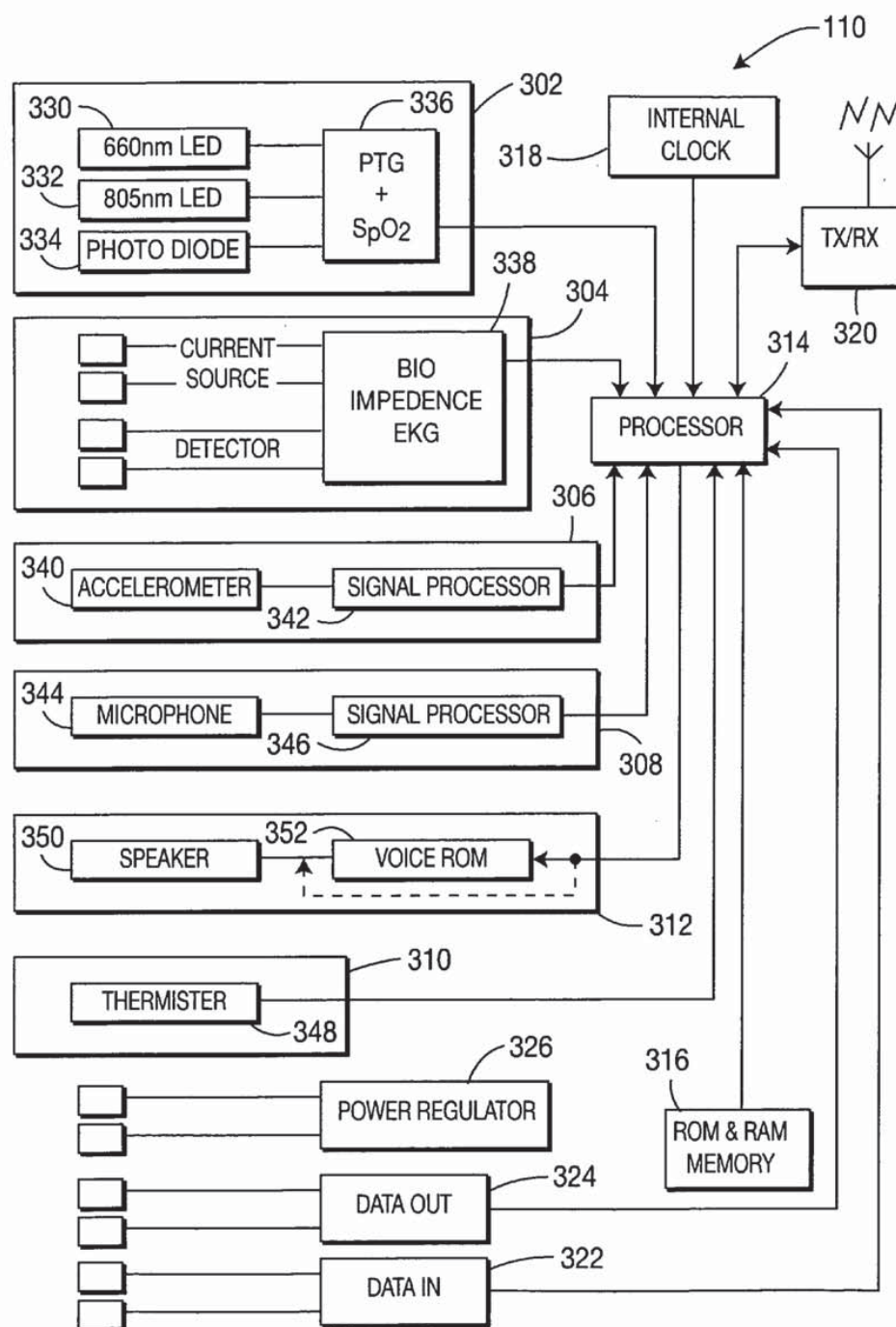
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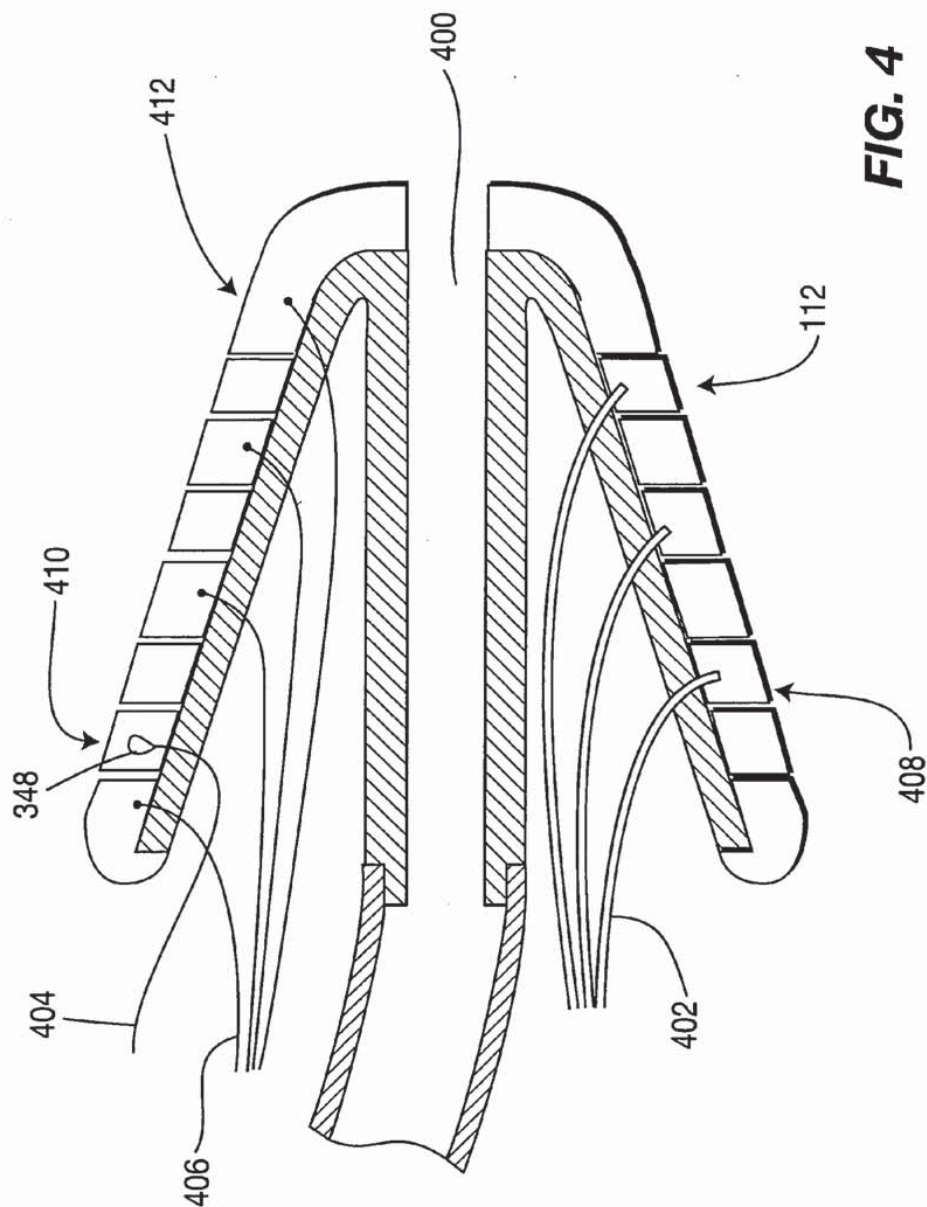
**FIG. 1**



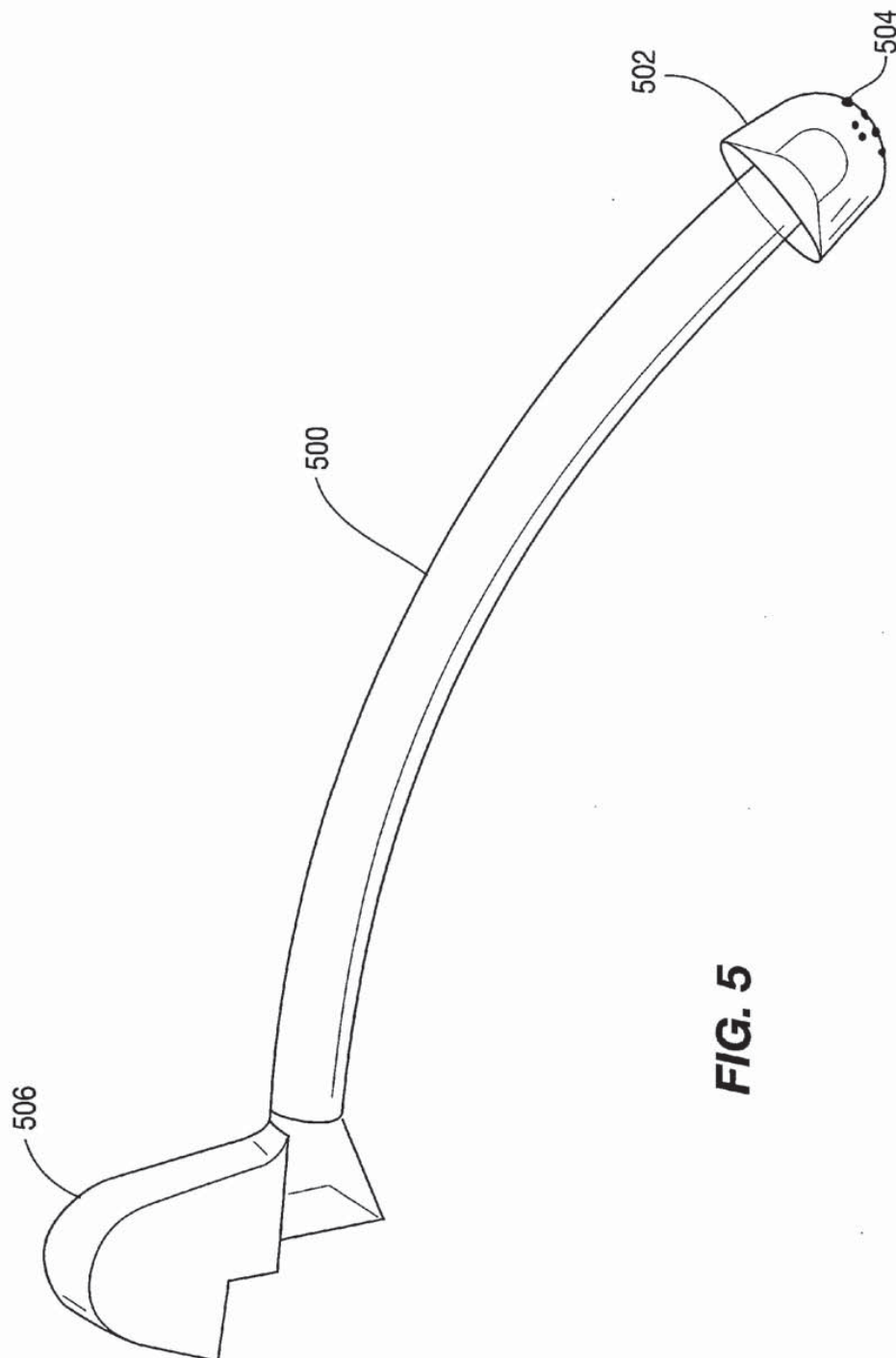
**FIG. 2**



**FIG. 3**



**FIG. 4**



**FIG. 5**



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