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(54) **APPARATUS AND METHODS FOR MONITORING PHYSIOLOGICAL DATA DURING ENVIRONMENTAL INTERFERENCE**

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(57) **ABSTRACT**

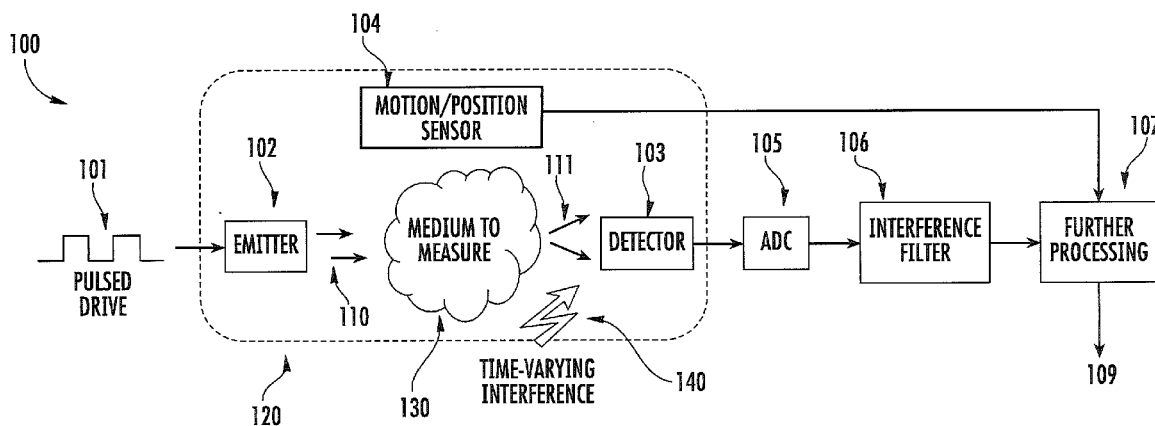
Apparatus and methods for attenuating environmental interference are described. A wearable monitoring apparatus includes a housing configured to be attached to the body of a subject and a sensor module that includes an energy emitter that directs energy at a target region of the subject, a detector that detects an energy response signal—or physiological condition—from the subject, a filter that removes time-varying environmental interference from the energy response signal, and at least one processor that controls operations of the energy emitter, detector, and filter.

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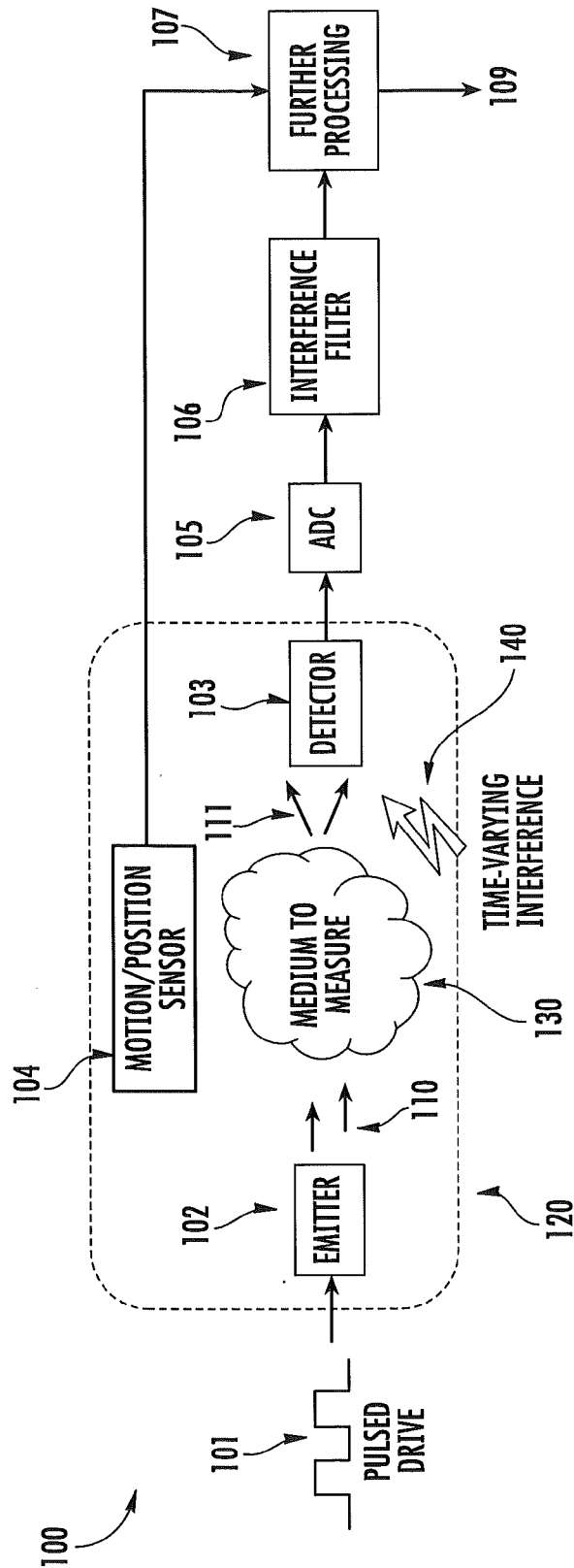


FIG. 1

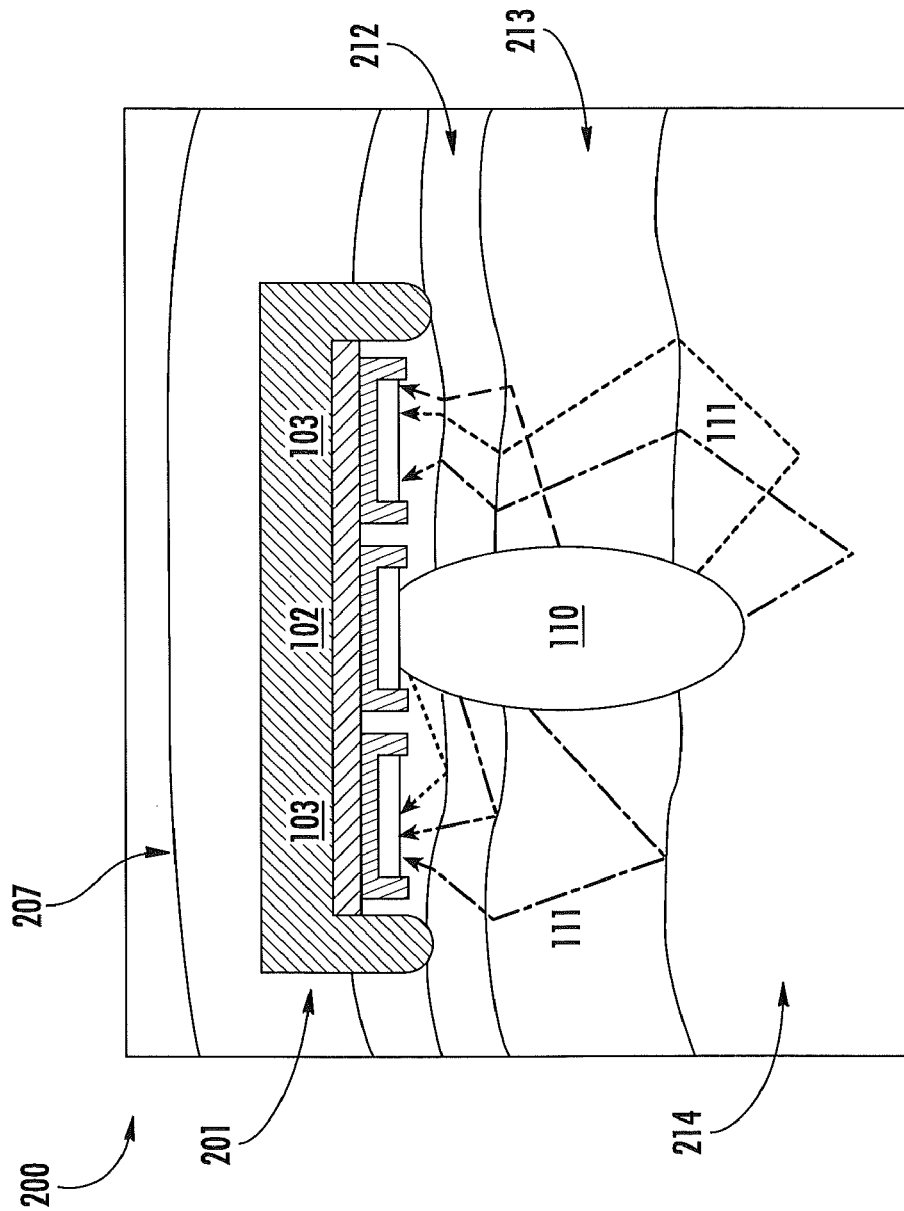


FIG. 2

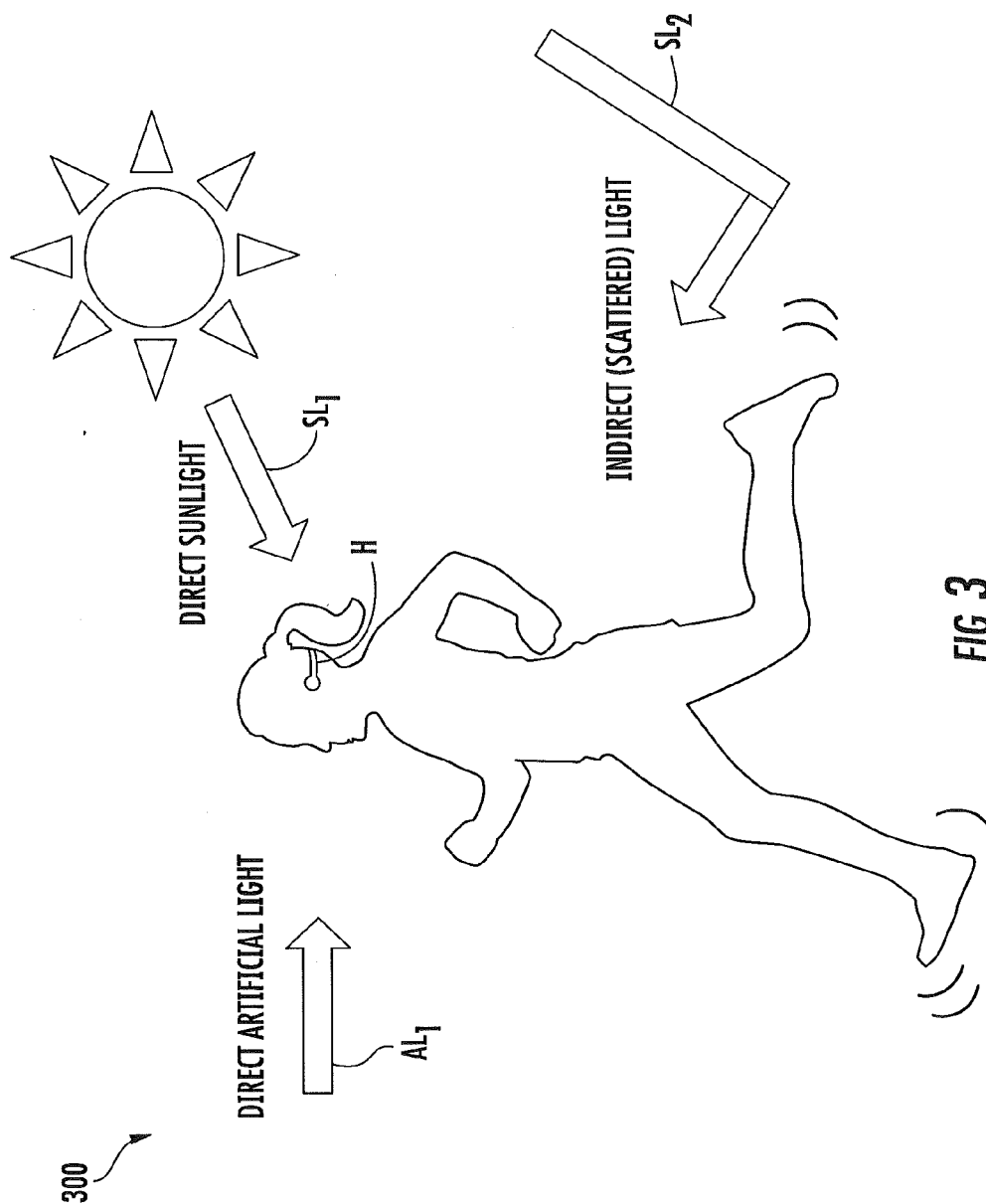


FIG. 3

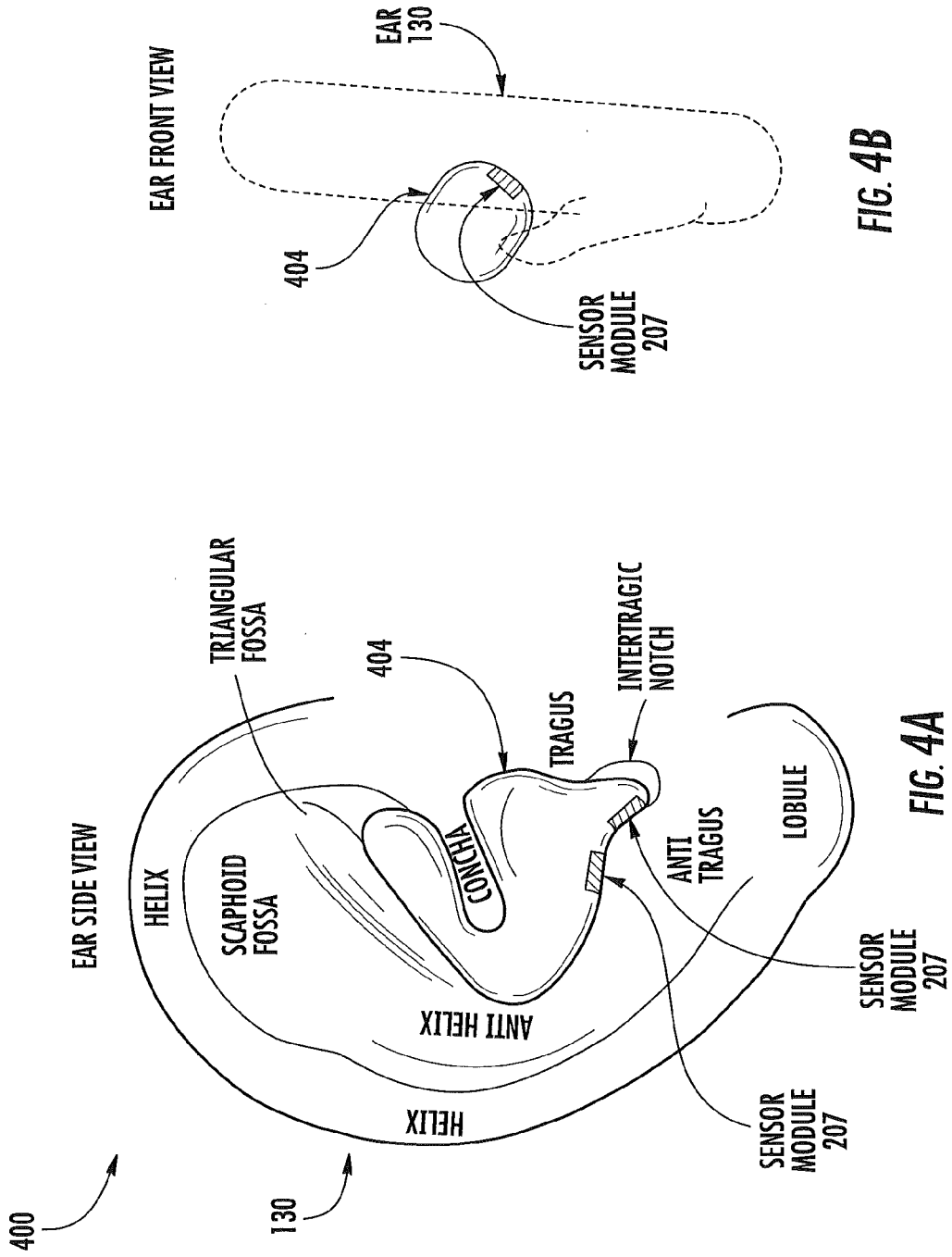


FIG. 4B

FIG. 4A

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