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(54) **SYSTEM FOR IN-VITRO MEASUREMENT OF AN ANALYTE CONCENTRATION**

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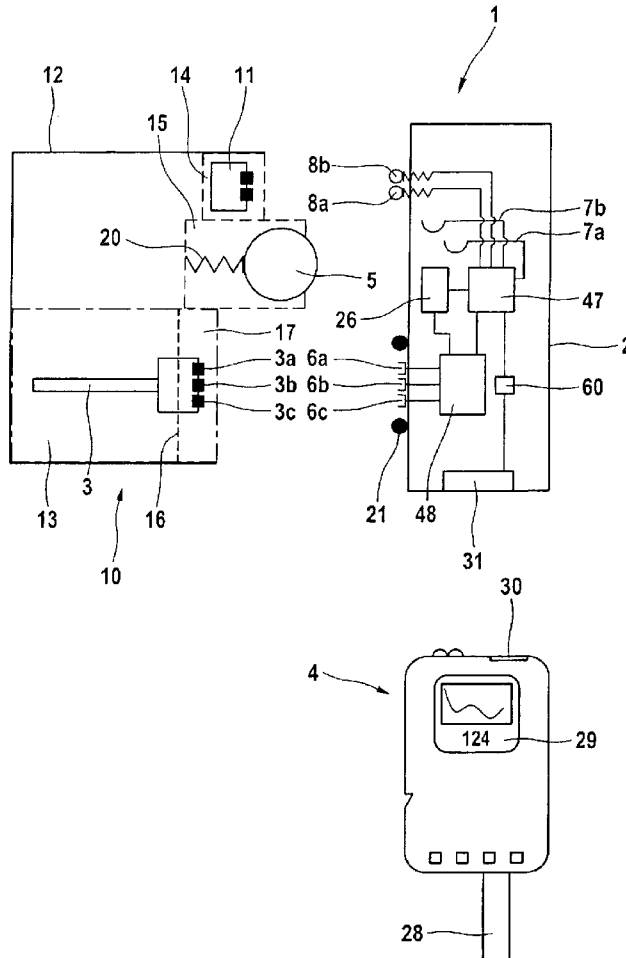
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(57) **ABSTRACT**

The analyte concentration, such as glucose, in a human or animal body is measured with an implantable sensor that generates measurement signals. The measurement signals are compressed through statistical techniques to produced compressed measurement data that can is easier to process and communicate. A base station carries the implantable sensor along with a signal processor, memory, and a transmitter. A display device is also disclosed that can receive the compressed measurement data from the base station for further processing and display.

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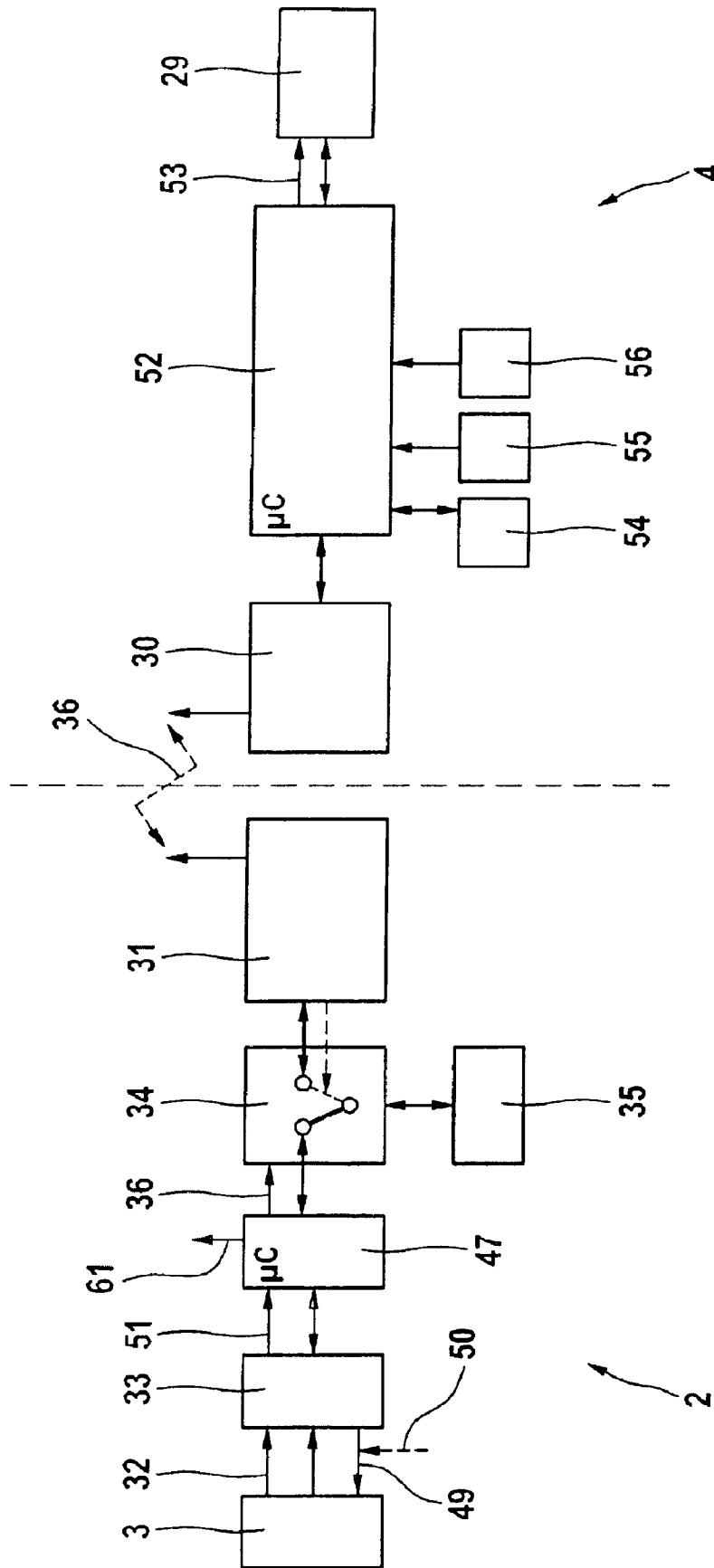
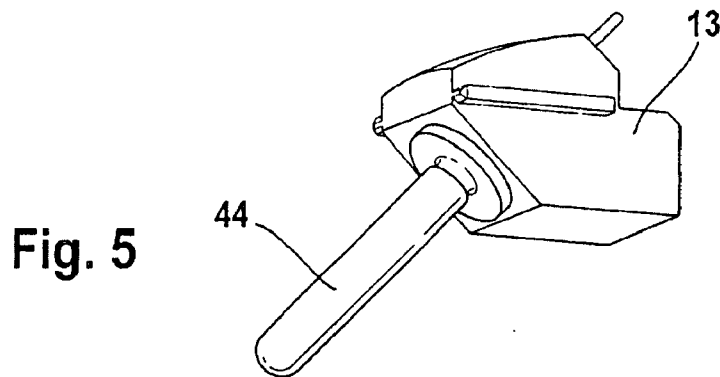
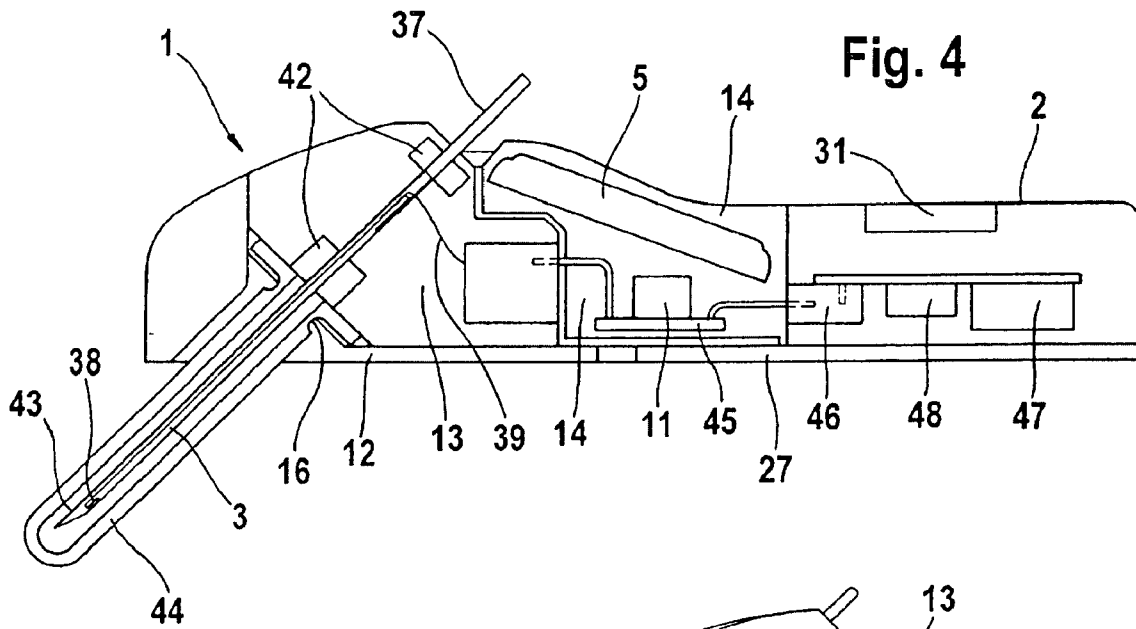
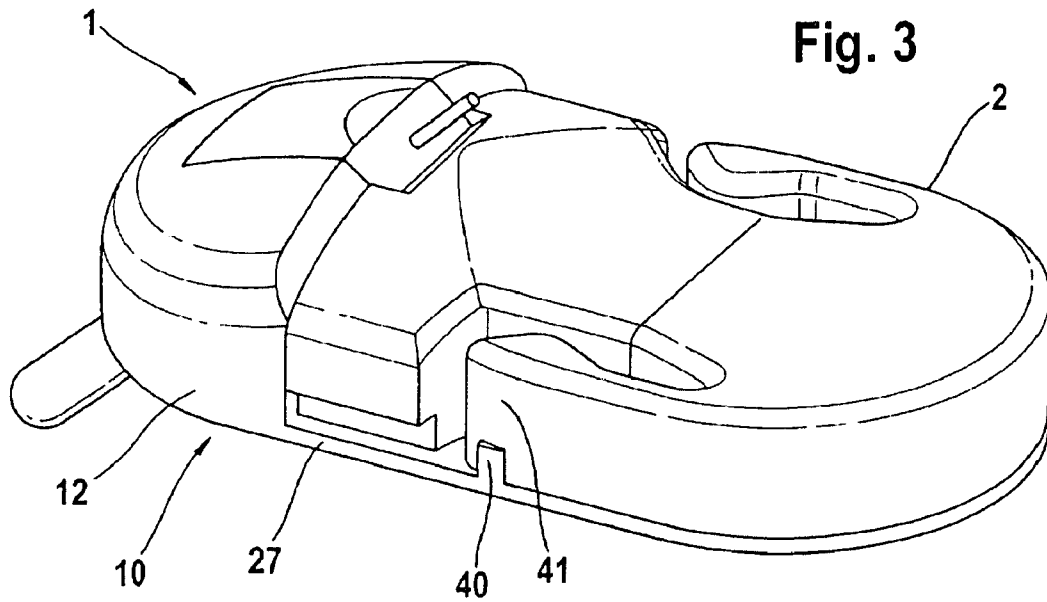


Fig. 2



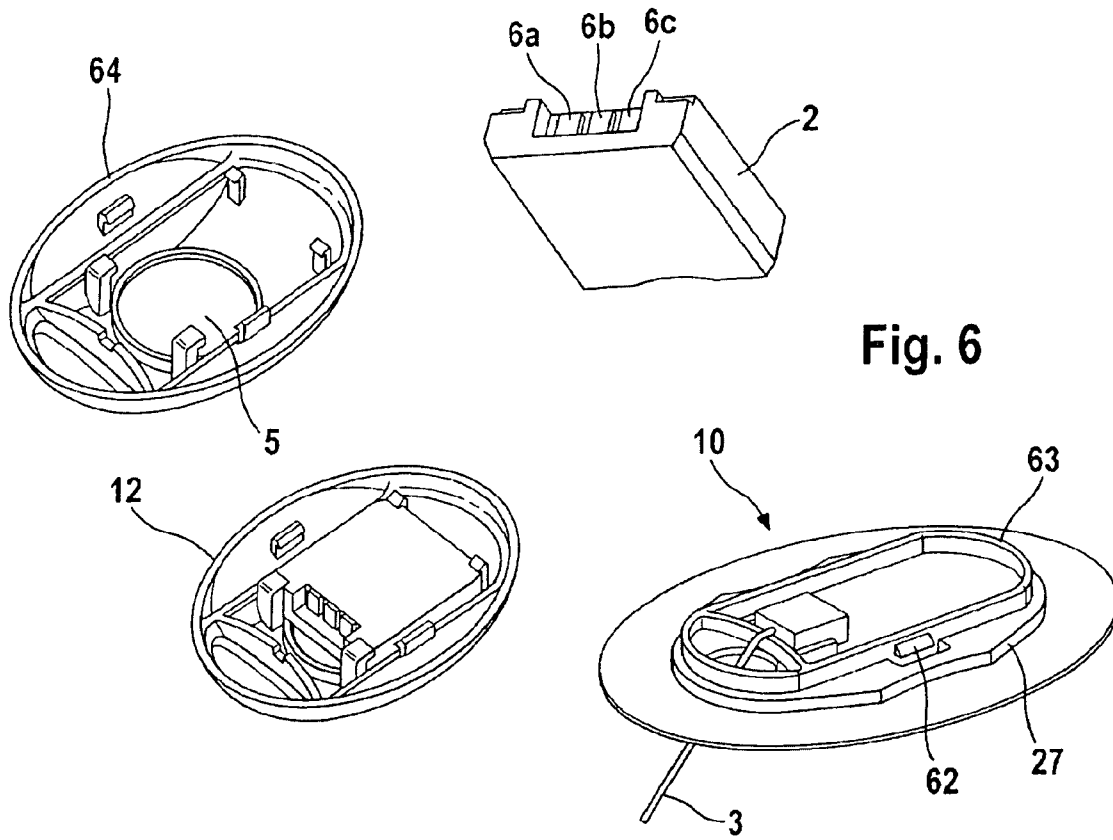


Fig. 6

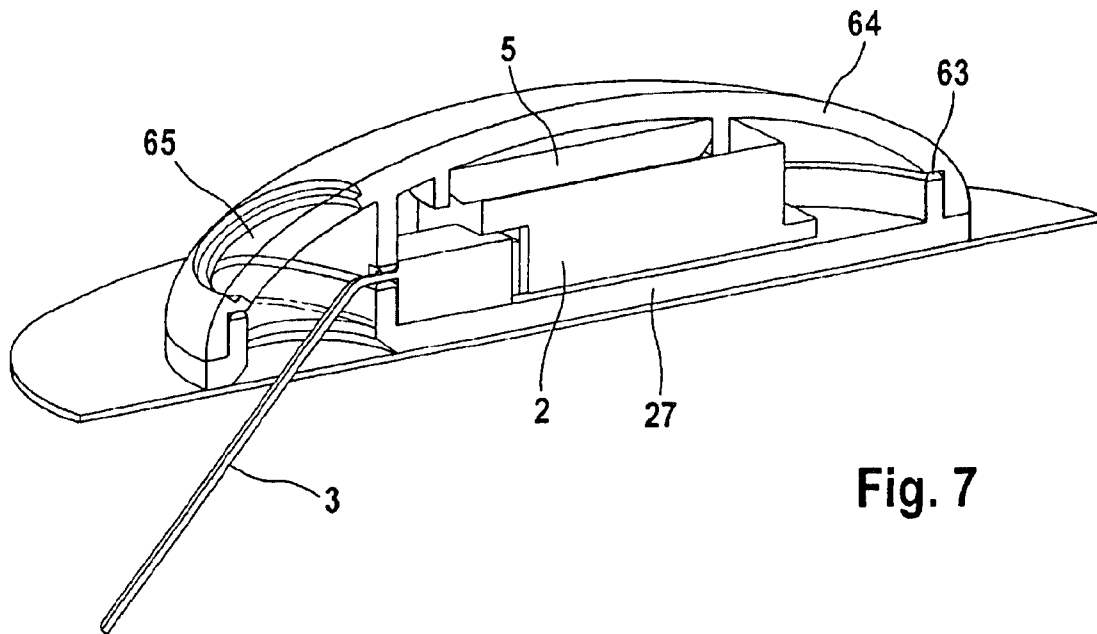


Fig. 7

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