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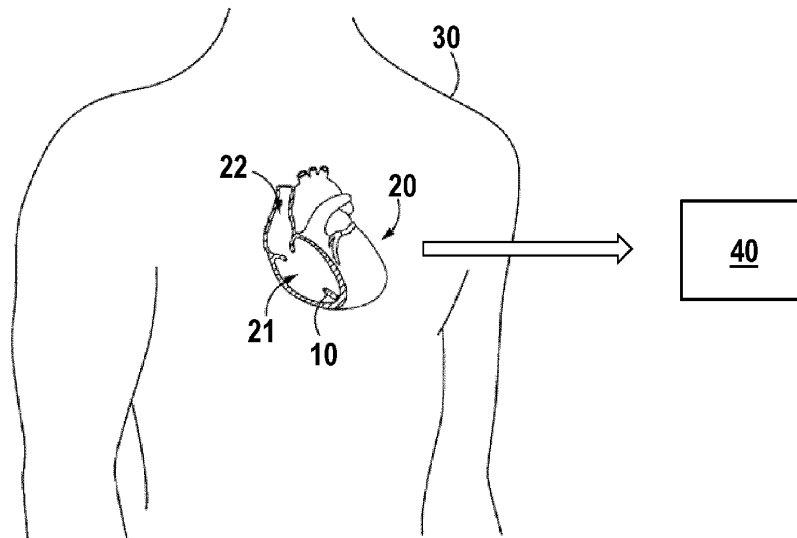


FIG. 1

(57) Abstract: An implantable medical device for stimulating a human or animal heart is described. The device comprises a processor, a memory unit, a stimulation unit configured to stimulate a cardiac region of a human or animal heart, a detection unit configured to detect an electrical signal of the same heart, and a temperature sensor for sensing a body temperature. In operation, the device carries out the following steps: a) causing the temperature sensor to repeatedly sense a body temperature of a person to whom the implantable medical device is implanted; b) storing body temperature values obtained in step a) in the memory unit; c) performing a statistical analysis on at least a subset of the stored body temperature values to calculate at least one of a body temperature reference value, a variation of the sensed body temperature values and a variability of the sensed body temperature values; and d) performing at least one defined task with the calculated values.

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