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(71) Applicant: **IMUTEC SAS** [FR/FR]; 9 Rue Quentin
Bauchart, 75008 Paris (FR).

(72) Inventor: **VOLF, Nadia**; 9 Rue Quentin Bauchart, 75008
Paris (FR).

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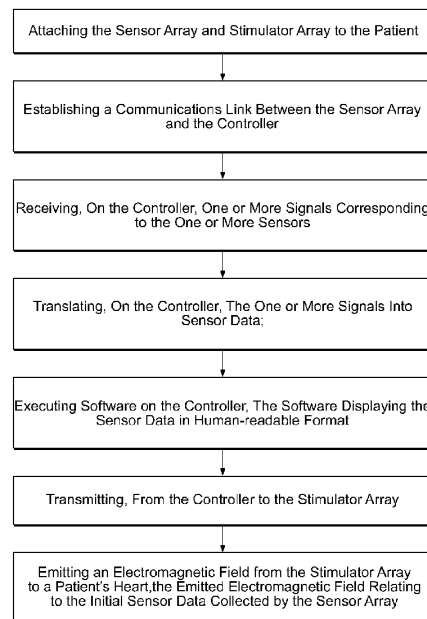


FIG. 2

(57) Abstract: A system and method for determining and modifying the electromagnetic activity of a patient's heart includes a sensor array, a controller, software, and a stimulator array. The sensor array includes one or more sensors, such as an ECG electrode, that detect the electromagnetic activity of a patient's heart. The sensor array is in data communication with the controller. The controller runs software that outputs in human-format sensor data provided by the sensor array. The software receives data from the controller, analyzes the data, presents the data to the user, and sends the data to the stimulator array via a data communication link. The stimulator array includes one or more electromagnets and at least one or more light-emitting diodes. The stimulator array emits an electromagnetic (and/or light) field to modify the electromagnetic activity of a patient's heart based on the data it receives from the controller. The system can be portable.

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