CLAIMS

What is claimed is:

1. A system of determining and modifying the electromagnetic activity of a patient's heart, comprising:

   a sensor array, a controller, software, a stimulator array, and a power supply;

   the sensor array comprising one or more sensors configured to detect the electromagnetic activity of a patient's heart;

   the sensor array in communication with the controller, the controller configured to translate signals received from the one or more sensors and translate the signals into sensor data; and

   the controller executing software, the software configured to output the sensor data received from the controller to enable a user to read the electromagnetic activity of a patient's heart by the one or more sensors; and

   wherein the controller calculates a force momentum of the heart, value β, according to the formula:

$$Force\ Momentum = \frac{vQR + vRS + vST}{\frac{tQT}{\sqrt{tRR}}}$$

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2. The system of claim 1, wherein the sensors include at least one or more ECG electrodes.

3. The system of claim 1 or 2, wherein the stimulator array includes at least one or more electromagnets.

4. The system of claim 1 or 2, wherein the stimulator array includes at least one or more light-emitting diodes.

5. The system of claim 2, wherein the controller is configured to be in communication with the sensor array to send feedback signals to the stimulator array to modify the electromagnetic activity of a patient's heart.
6. The system of claim 2, wherein the electromagnetic conditions of a patient's heart as determined by the one or more sensors is readable via one or more output graphs.
7. The system of claim 2, wherein the stimulator array emits an electromagnetic field that affects the electromagnetic activity of a patient's heart, wherein the value of the emitted electromagnetic field is dictated by the value of the force momentum.
8. The system of claim 2, wherein the sensor array, controller, software, stimulator array, and power supply are in a singular integrated, portable housing.