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(54) Title: FABRIC TRIBOELECTRIC NANOGENERATOR

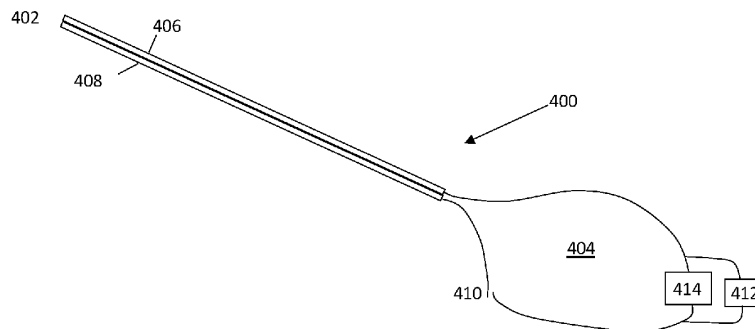


Figure 4

(57) Abstract: Disclosed herein are triboelectric nanogenerators (TENGs). Such TENGs comprise at least one triboelectric (TE) layer comprising two surfaces relative movement between which generates a TE charge, and a circuit. The circuit comprises a switch, a sensor, and a load. The switch has an open condition in which the TE charge accumulates (the accumulated TE charge), and a closed condition in which the accumulated TE charge discharges between the two surfaces across the load, the sensor determining a time constant (τ) of discharge of the accumulated TE charge across the load.

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