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(71) Applicant: NANOFLEX POWER CORPORATION

[US/US]; 15333 North Pima Road, Suite 305, Scottsdale, AZ 85260 (US).

(72) Inventors; and

(71) Applicants: **FIELD, III, Richard** [US/US]; c/o NanoFlex Power Corporation, 15333 North Pima Road, Suite 305, Scottsdale, AZ 85260 (US). **WOLGAST, Steven** [US/US]; c/o NanoFlex Power Corporation, 15333 North Pima Road, Suite 305, Scottsdale, AZ 85260 (US). **GRIFFITH, Olga** [US/US]; c/o NanoFlex Power Corporation, 15333 North Pima Road, Suite 305, Scottsdale, AZ 85260 (US). **BARTO, Adam** [US/US]; c/o NanoFlex Power Corporation, 15333 North Pima Road, Suite 305, Scottsdale, AZ 85260 (US). **ALLEN, J., Norman** [US/US]; c/o NanoFlex Power Corporation, 15333 North Pima Road, Suite 305, Scottsdale, AZ 85260 (US).

(54) Title: FLEXIBLE ELECTRONIC DEVICES

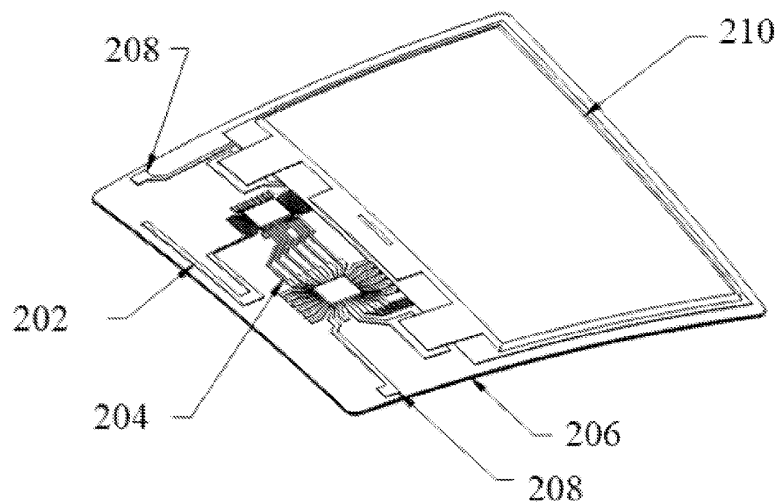


FIGURE 2

(57) Abstract: A photovoltaic powered flexible electronic device comprising a flexible photovoltaic module, electrodes (such as anode and cathode) incorporated into the flexible photovoltaic module, wherein the electrodes are at least partially exposed, and a flexible circuit board, wherein the flexible circuit board is attached to one of the following: (a) the flexible photovoltaic module, (b) a flexible substrate located on the flexible photovoltaic module, and (c) an adhesive located on the flexible photovoltaic module, the flexible circuit board comprising: a recharging circuit, wherein the recharging circuit is electrically connected to the cathode and anode electrodes; an energy storage unit; and a radio emitting device, wherein the photovoltaic powered flexible electronic device comprises a Young's Modulus of 150 GPa or less. The flexible electronic device can be a flexible organic electronic device.

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(74) **Agent: SWEET, Mark, D.;** Finnegan, 901 New York Avenue, N.W., Washington, DC 20001 (US).

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