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(54) Title: POWERING A FUNCTIONAL UNIT AND OBTAINING A MEASUREMENT SIGNAL VIA A SINGLE PAIR OF ELECTRICAL CONNECTION PATHS

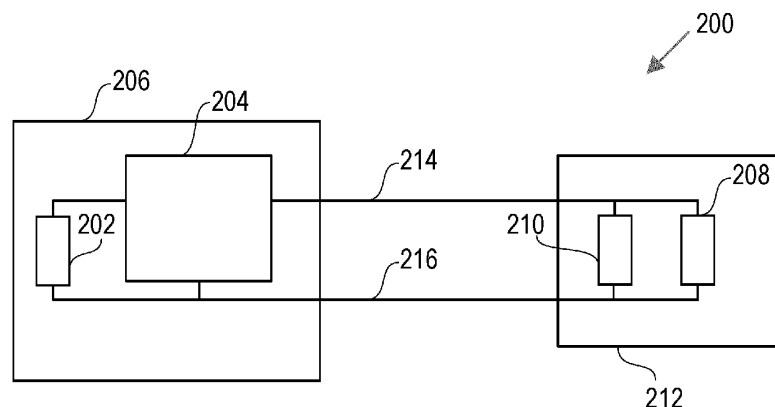


Fig. 2

(57) Abstract: According to an aspect, there is provided a device (200, 300, 400, 500) comprising a main body (206) comprising a power source (202) and control circuitry (204), and a functional unit (212) comprising a functional member (208, 402) and a sensing component (210, 524), wherein the functional member (208, 402) and the sensing component (210, 524) are arranged electrically in parallel with one another, and wherein the functional member (208, 402) has a threshold voltage below which the functional member (208, 402) is electrically non-conductive or substantially electrically non-conductive, and above which the functional member (208, 402) is electrically conductive, wherein the control circuitry (204) and the power source (202) are electrically coupled to the functional unit (212) by a single pair of electric connection paths (214, 216), and wherein the control circuitry (204) and the power source (202) are configured to switch between providing first and second voltages to the functional unit (212) via the single pair of electric connection

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paths (214, 216), wherein the first voltage exceeds the threshold voltage and the second voltage is below the threshold voltage to enable a measurement signal to be obtained from the sensing component (210, 524) via the single pair of electric connection paths (214, 216).