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(54) **Title:** FLOW CYTOMETRY DEVICE

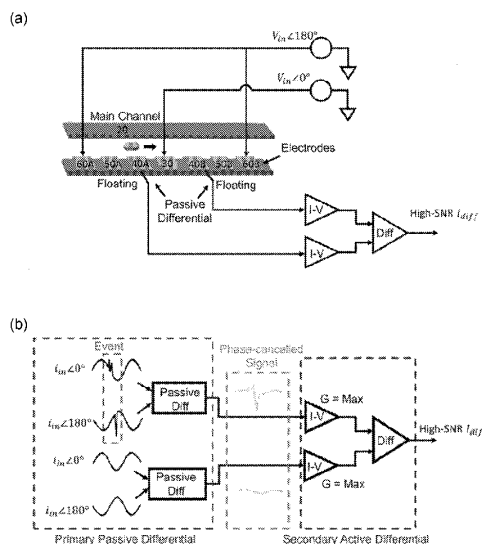


Figure 1

(57) **Abstract:** The invention relates to an impedance-based microfluidic flow cytometry device. In an aspect of the present invention, there is provided an impedance-based microfluidic flow cytometry device comprising: a channel comprising a sensing region to sense a particle flowing through the channel; and an electrode arrangement disposed adjacent the sensing region, wherein the electrode arrangement is configured to generate at least one first region of differential current and at least one second region of differential current, and wherein the at least one first region and at least one second region have opposite phases of electric current. In another aspect of the present invention, there is provided a method of determining a characteristic of a particle in a fluid suspension.

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