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(54) **Title:** RADIATION DETECTION

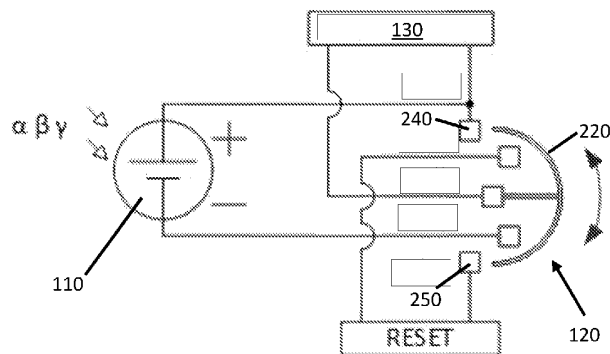


Figure 1

(57) **Abstract:** A radiation detector is disclosed. The detector comprises: a conversion device configured to develop a voltage when subject to incident radiation; and a switch operable configured to move between a first state and a second state when triggered by a threshold voltage. The conversion device is connected to the switch such that, when the threshold voltage is developed across the conversion device, the switch is triggered to move from the first state to the second state. The detector further comprises an interrogation circuit operable to determine whether the switch is in the first state or the second state, thereby to determine whether the detector has been subjected to a threshold level of radiation associated with the threshold voltage. A system comprising radiation sensitive apparatus and the radiation detector is also disclosed.

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