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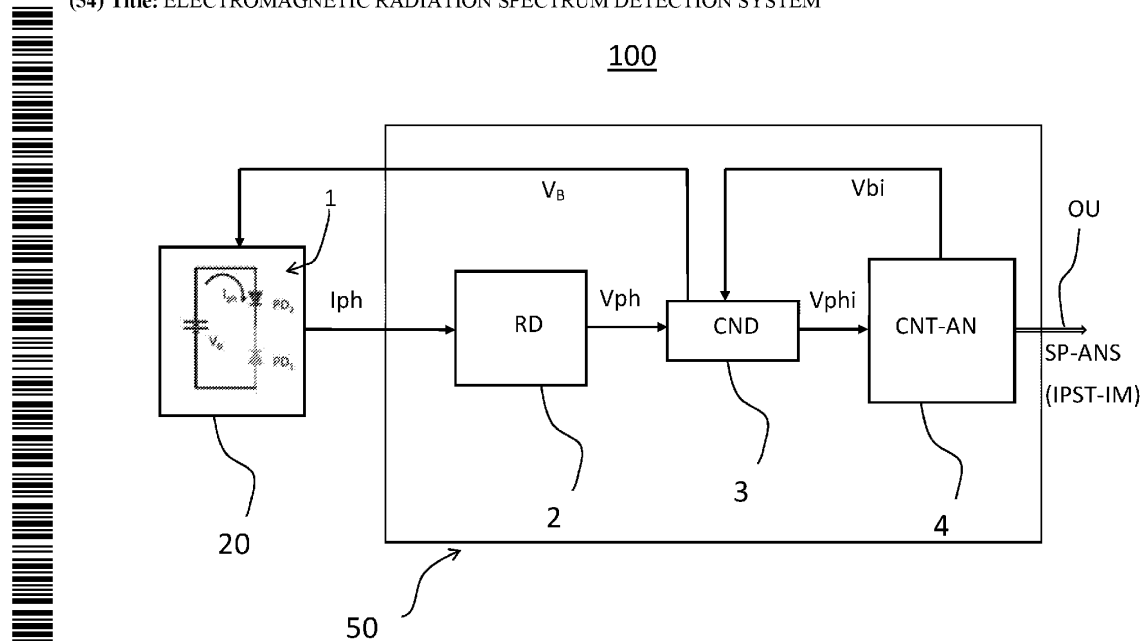


FIG. 1

(57) Abstract: A system (100) for detecting the spectrum of an electromagnetic radiation is described, comprising: a sensor device (20, 1) comprising two photodiodes in a "back-to-back" configuration and configured to convert an incident electromagnetic radiation (EMR) into an electric current as a function of a relative spectral responsivity dependent on an electrical control voltage; an electronic control and processing module (50) configured to: selectively provide to the sensor device (1) a plurality of values of control electric voltage (VB) by varying said spectral responsivity so as to obtain a corresponding plurality of detected electric currents (Iph) associated with the incident electromagnetic radiation; process values of said detected electric currents (Iph) based on the values of control electric voltage (VB) and said spectral responsivity, obtaining information (SP-ANS; IPST-IM) related to the spectrum of the incident electromagnetic radiation.

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