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(54) **IMAGE SENSOR INCLUDING CONTROL ELECTRODE, TRANSPARENT ELECTRODE, AND CONNECTION LAYER ELECTRICALLY CONNECTING CONTROL ELECTRODE TO SIDE SURFACE OF TRANSPARENT ELECTRODE**

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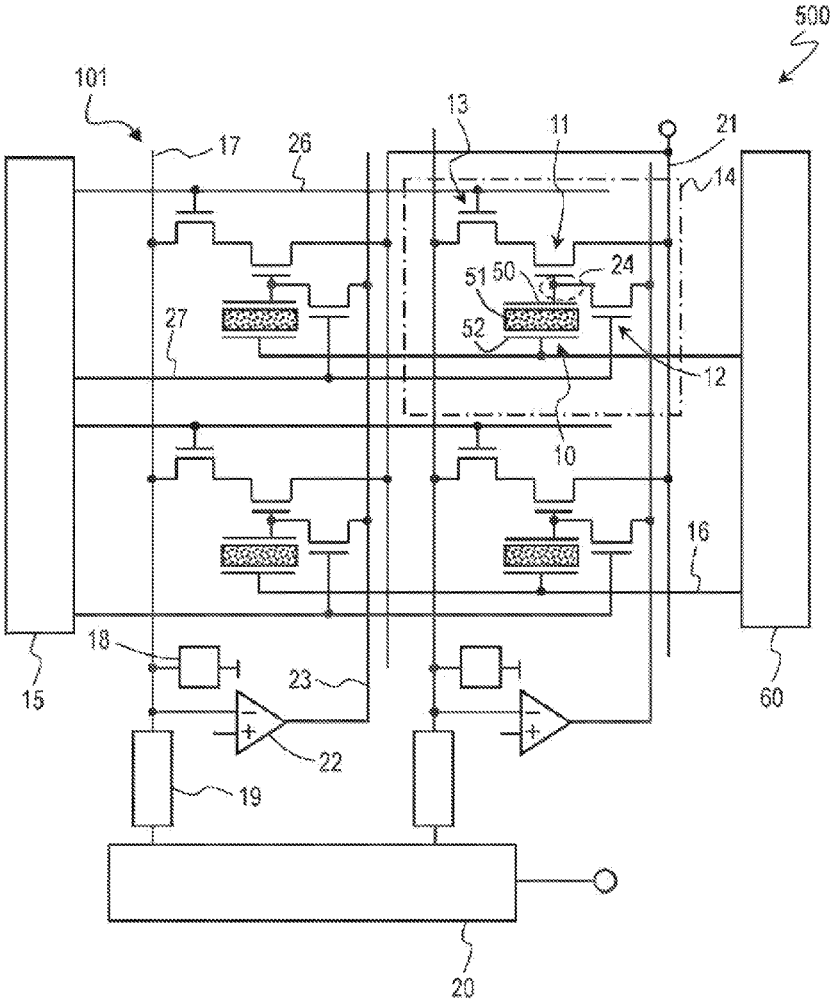
(57) **ABSTRACT**

An image sensor includes pixel electrodes, a control electrode, a photoelectric conversion film arranged on the pixel electrodes, a transparent electrode arranged on the photoelectric conversion film, an insulating layer arranged on at least a portion of a top surface of the transparent electrode, and a connection layer that electrically connects the control electrode to the transparent electrode. The connection layer is in contact with at least one side surface of the transparent electrode. A side surface of the insulating layer, the at least one side surface of the transparent electrode, and a side surface of the photoelectric conversion film are aligned with each other.