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(54) **HIGH VOLTAGE AMPLIFIER**

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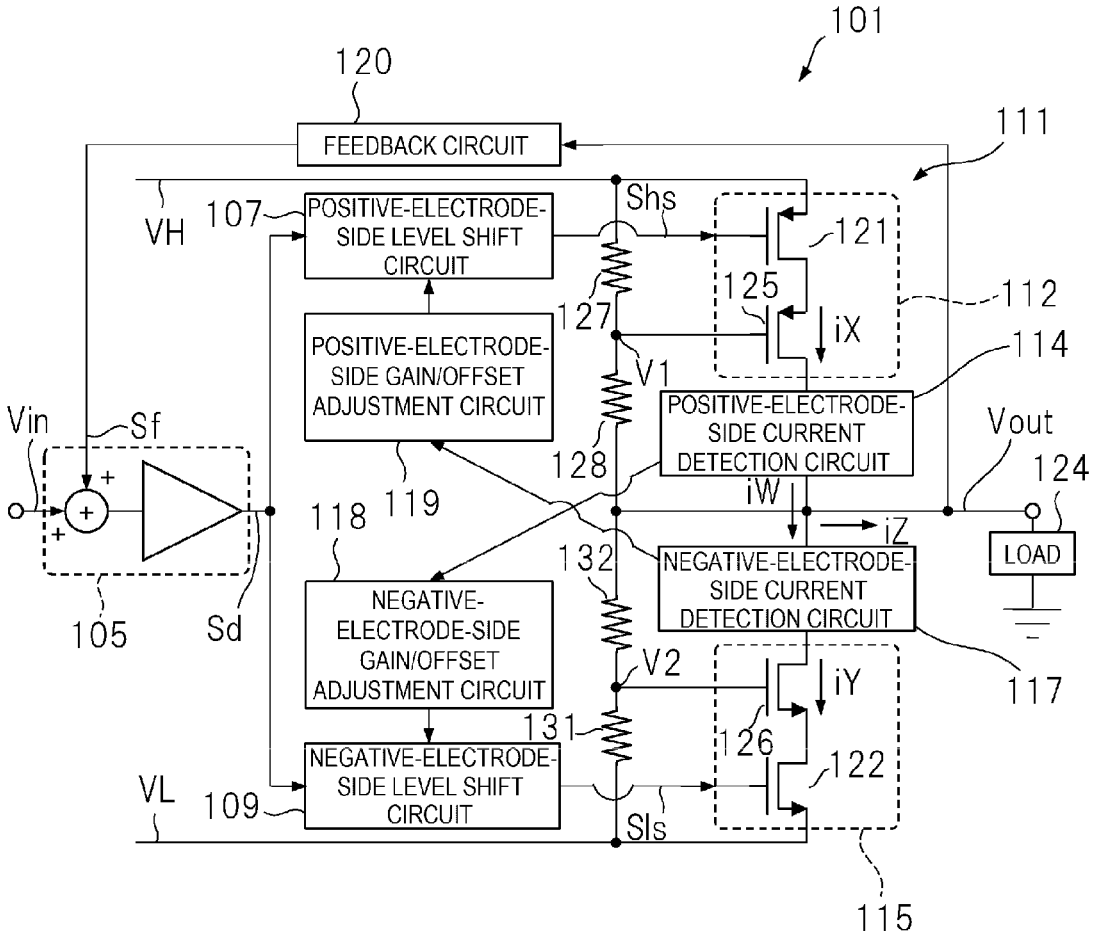
(57) **ABSTRACT**

The high voltage amplifier includes: an input circuit configured to amplify an input signal and connected to a positive-electrode-side level shift circuit and a negative-electrode-side level shift circuit; a high-voltage output circuit including a positive-electrode-side output circuit configured to amplify a signal from the positive-electrode-side level shift circuit and a negative-electrode-side output circuit configured to amplify a signal from the negative-electrode-side level shift circuit; a feedback circuit which feeds back an output signal from the high-voltage output circuit to the input signal; a detection circuit configured to detect currents of the positive-electrode-side and negative-electrode-side output circuits, and an offset adjustment circuit configured to increase an offset amount of the negative-electrode-side level shift circuit to a negative side when a current of the positive-electrode-side output circuit increases, and increase an offset amount of the positive-electrode-side level shift circuit to a positive side when a current of the negative-electrode-side output circuit increases.