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(54) Title of the Invention: **AC/AC Boost converter**
Abstract Title: **AC/AC Boost converter**

(57) An AC/AC boost converter comprising input terminals, output terminals, an inductor, a bridge arm comprising a pair of bi-directional switches, a capacitor and a control circuit for controlling the switches. The bridge arm and the capacitor are connected in parallel across the output terminals. The inductor has a first end connected to one of the input terminals and a second end connected to one of an end and a junction of the bridge arm, the junction being located between the two switches. Another of the input terminals is then connected to the other of the end and the junction of the bridge arm. An AC power supply supplies an AC input voltage at the input terminals, and the control circuit controls the switches of the bridge arm such that an AC output voltage is supplied at the output terminals, the AC output voltage being greater than the AC input voltage.

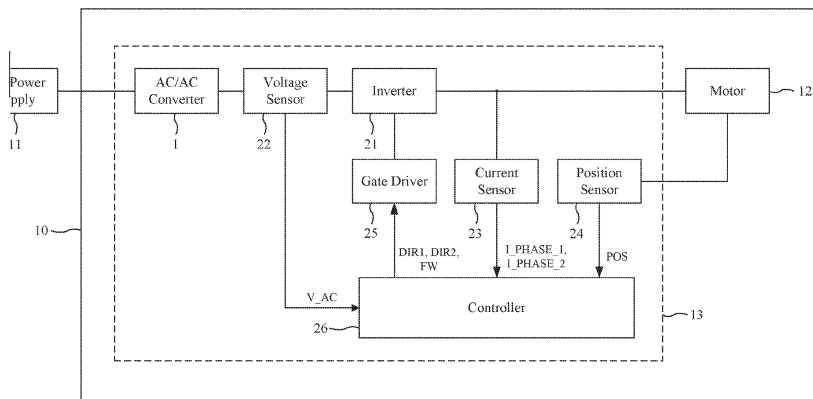


Fig. 7