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US 6127816 A **US 20150229211 A1**
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(54) Title of the Invention: **A DC-DC converter**
Abstract Title: **A DC-DC converter**

(57) A DC-DC converter and a corresponding method for maintaining an output voltage of the DC-DC converter, wherein the DC-DC converter is configured to operate in a discontinuous conduction mode, within a predetermined voltage range. The method comprises adjusting a duty cycle of the DC-DC converter based on the output voltage to maintain the output voltage within a predetermined voltage range; wherein the duty cycle of the DC-DC converter is adjusted by switching between a first switching frequency to a second switching frequency, and the first switching frequency and the second switching frequency are selected such that the first switching frequency and the second switching frequency fall outside of at least one predefined disallowed frequency band.

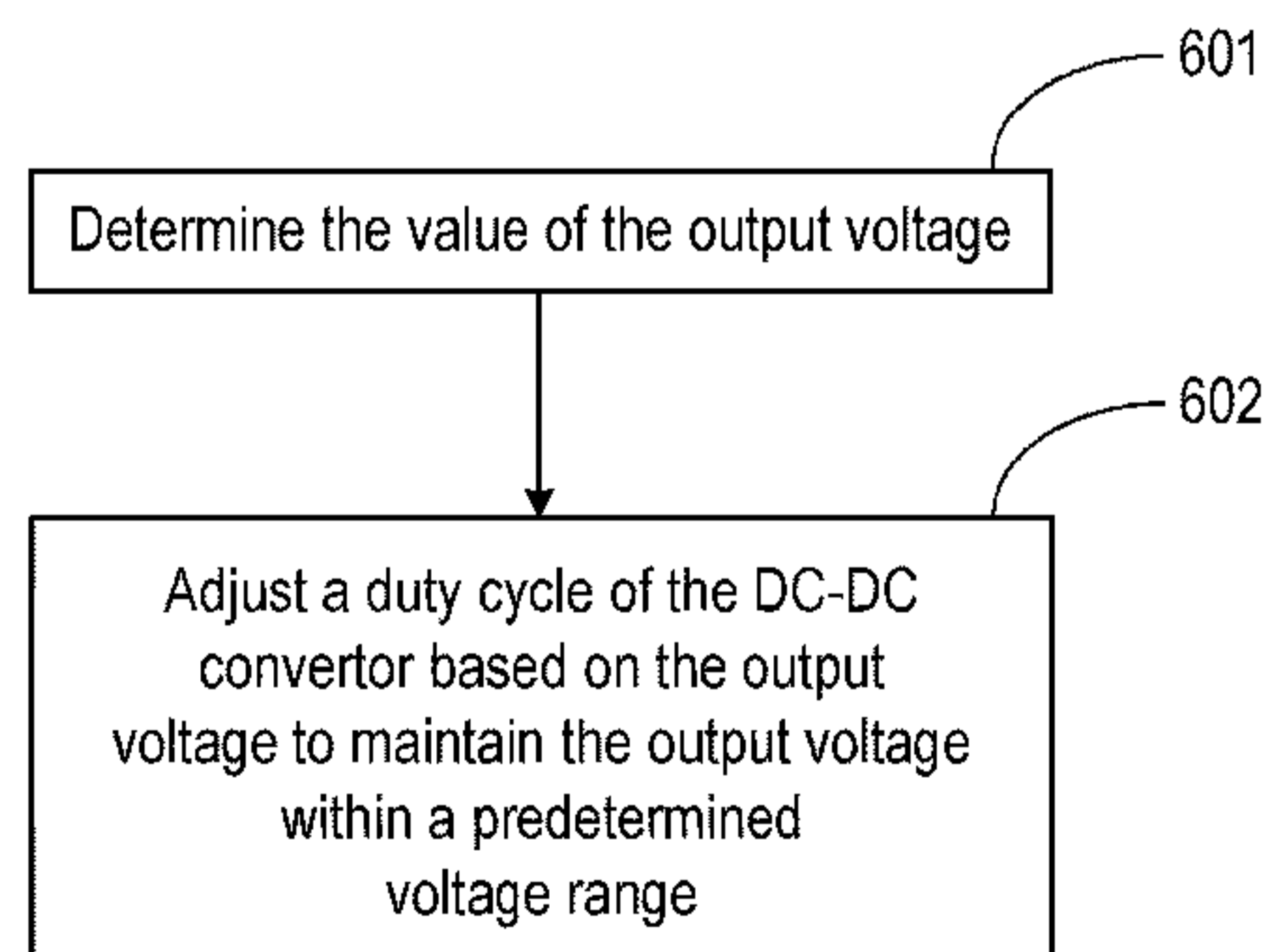


FIG. 6