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(54) **DYNAMIC PWM FREQUENCY CONTROL**

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(71) Applicant: **ABL IP Holding, LLC**, Conyers, GA (US)

(72) Inventors: **Feng CHEN**, Hoffman Estates, IL (US);
Towfiq CHOWDHURY, Lake Forest, IL (US)

(73) Assignee: **ABL IP Holding, LLC**, Conyers, GA (US)

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(57) **ABSTRACT**

The present disclosure provides a dynamic pulse width modulation (PWM) system that includes current frequency determination circuitry to determine a DC value of a source current, and to determine a frequency of the source current generate a plurality of pulses from an AC power source; and PWM generation circuitry to generate a first PWM signal having a first frequency based on the DC value of the current source; the PWM circuitry also to generate a second PWM signal having a second frequency based on the frequency of the current source; wherein the first frequency is less than the second frequency.

