

Title (en)
BATTERY COMPENSATION SYSTEM USING PWM

Title (de)
BATTERIEKOMPENSATIONSSYSTEM MIT PWM

Title (fr)
SYSTÈME DE COMPENSATION DE BATTERIE PAR PWM

Publication
EP 3053260 A1 20160810 (EN)

Application
EP 14850350 A 20141003

Priority
• US 201314046969 A 20131006
• US 2014059040 W 20141003

Abstract (en)
[origin: WO2015051248A1] Compensation system adapted for use with a battery-powered, PWM-driven portable electronic device to enable consistent power to the device load despite battery voltage drop resulting from battery depletion, comprising: a voltage divider circuit for proportionally adjusting the voltage to a measurable range; an analog-to-digital converter for receiving the output from the voltage divider and converting it into a digital voltage value; and a microprocessing unit for running software code steps for receiving digital voltage input and user-determined power setting input for determining a compensating duty cycle for application by the software to the PWM to drive the load consistently at the user-determined power setting despite decrease in battery voltage resulting from battery depletion.

IPC 8 full level
H02M 3/156 (2006.01); **G02B 1/116** (2015.01); **G02C 11/08** (2006.01); **H02M 1/00** (2007.01); **H03K 7/08** (2006.01); **H05B 3/86** (2006.01)

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G02B 27/0006 (2013.01 - EP KR); **G02C 11/08** (2013.01 - EP KR); **G06F 13/385** (2013.01 - EP KR); **G06F 13/4081** (2013.01 - EP KR); **H02J 7/0063** (2013.01 - EP KR US); **H02J 7/007192** (2020.01 - EP KR US); **H02M 3/156** (2013.01 - EP KR US); **H02M 3/1563** (2013.01 - EP); **H05B 1/023** (2013.01 - EP KR); **H05B 3/84** (2013.01 - EP KR); **H02M 1/0022** (2021.05 - EP); **H05B 2203/011** (2013.01 - EP KR); **H05B 2203/013** (2013.01 - EP KR)

Designated contracting state (EPC)
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Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
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