



(12) **United States Patent**
Marshall

(10) **Patent No.:** **US 7,061,142 B1**
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- (54) **INLINE POWER DEVICE DETECTION**
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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 377 days.
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- (22) Filed: **May 28, 2003**
- (51) **Int. Cl.**
H03K 3/00 (2006.01)
- (52) **U.S. Cl.** **307/106; 307/105**
- (58) **Field of Classification Search** **307/105, 307/106**
See application file for complete search history.

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(57) **ABSTRACT**

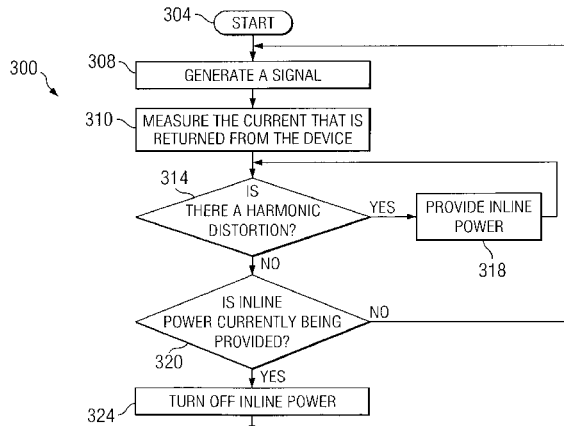
According to one embodiment of the invention, a method for providing power to a device coupled to a communications switch through a data line is provided. The method includes determining that the device includes a diode. The method also includes providing power to the device in response to the determination.

22 Claims, 3 Drawing Sheets

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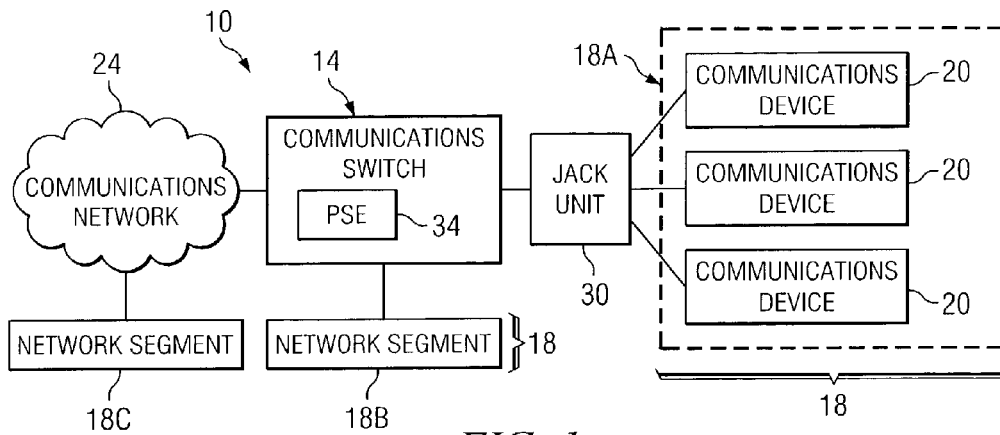


FIG. 1

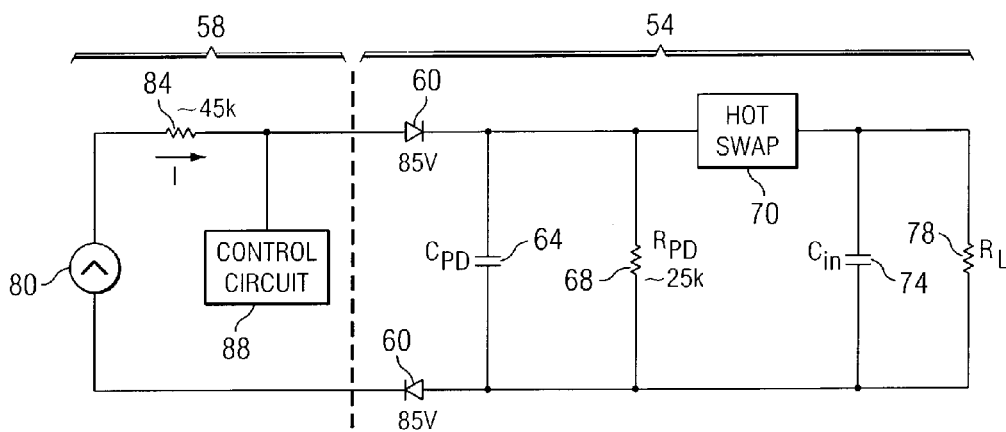


FIG. 2A

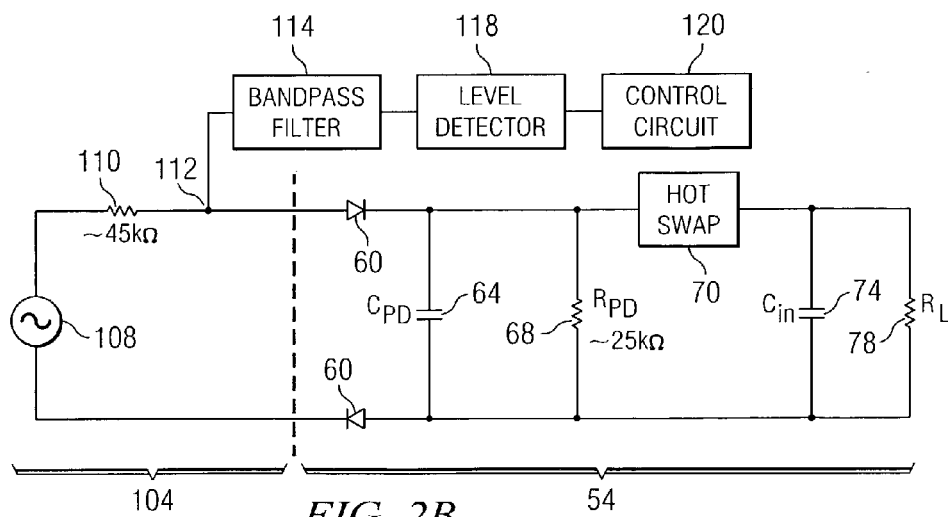


FIG. 2B

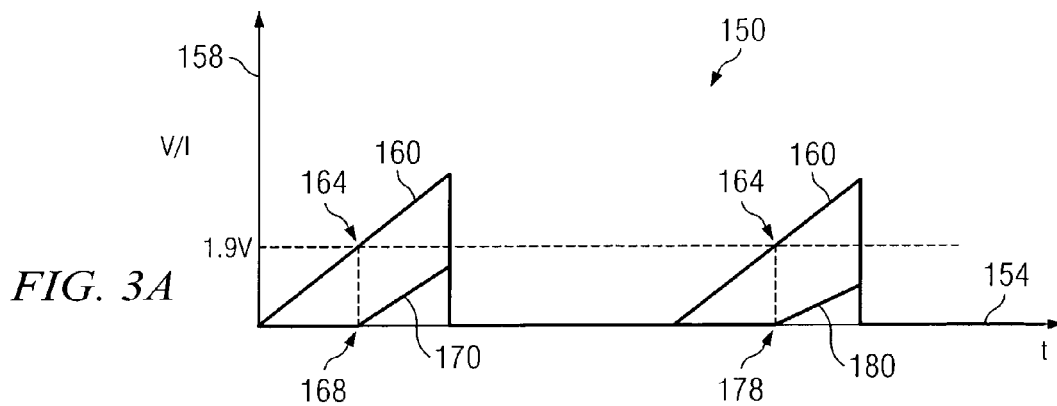


FIG. 3A

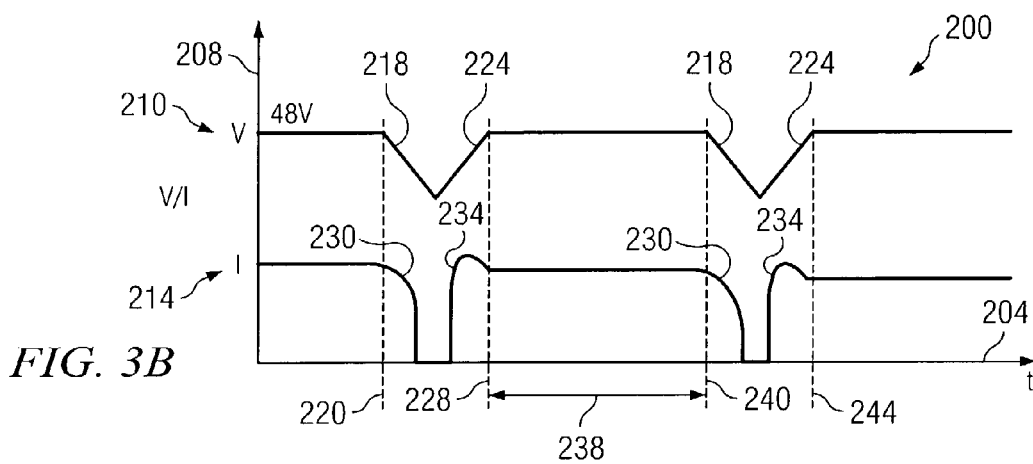


FIG. 3B

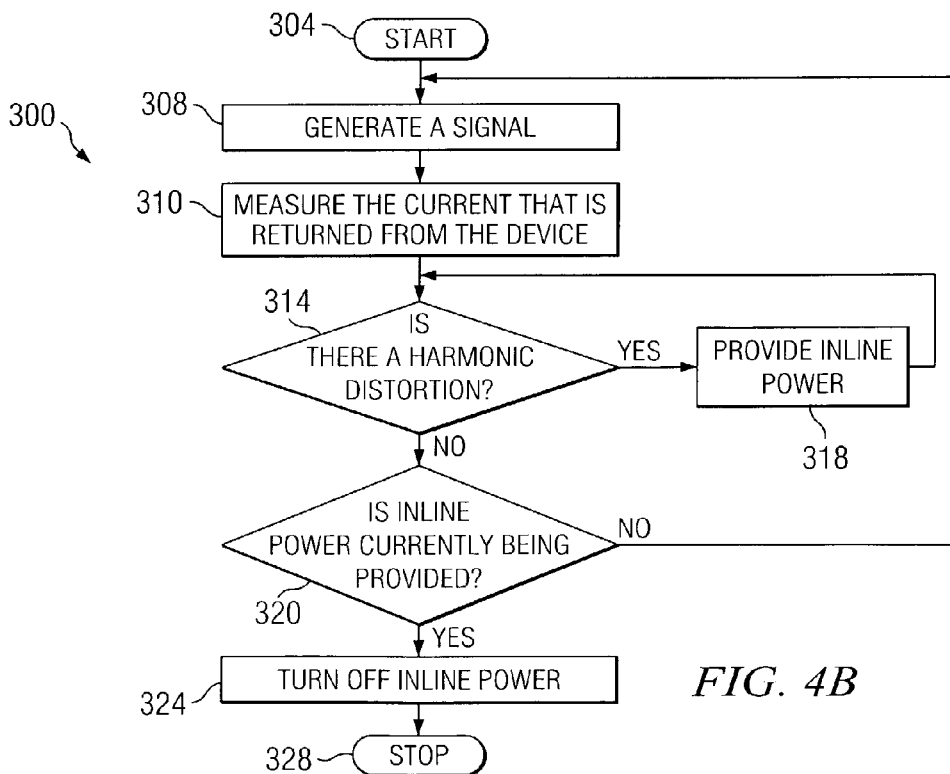


FIG. 4B

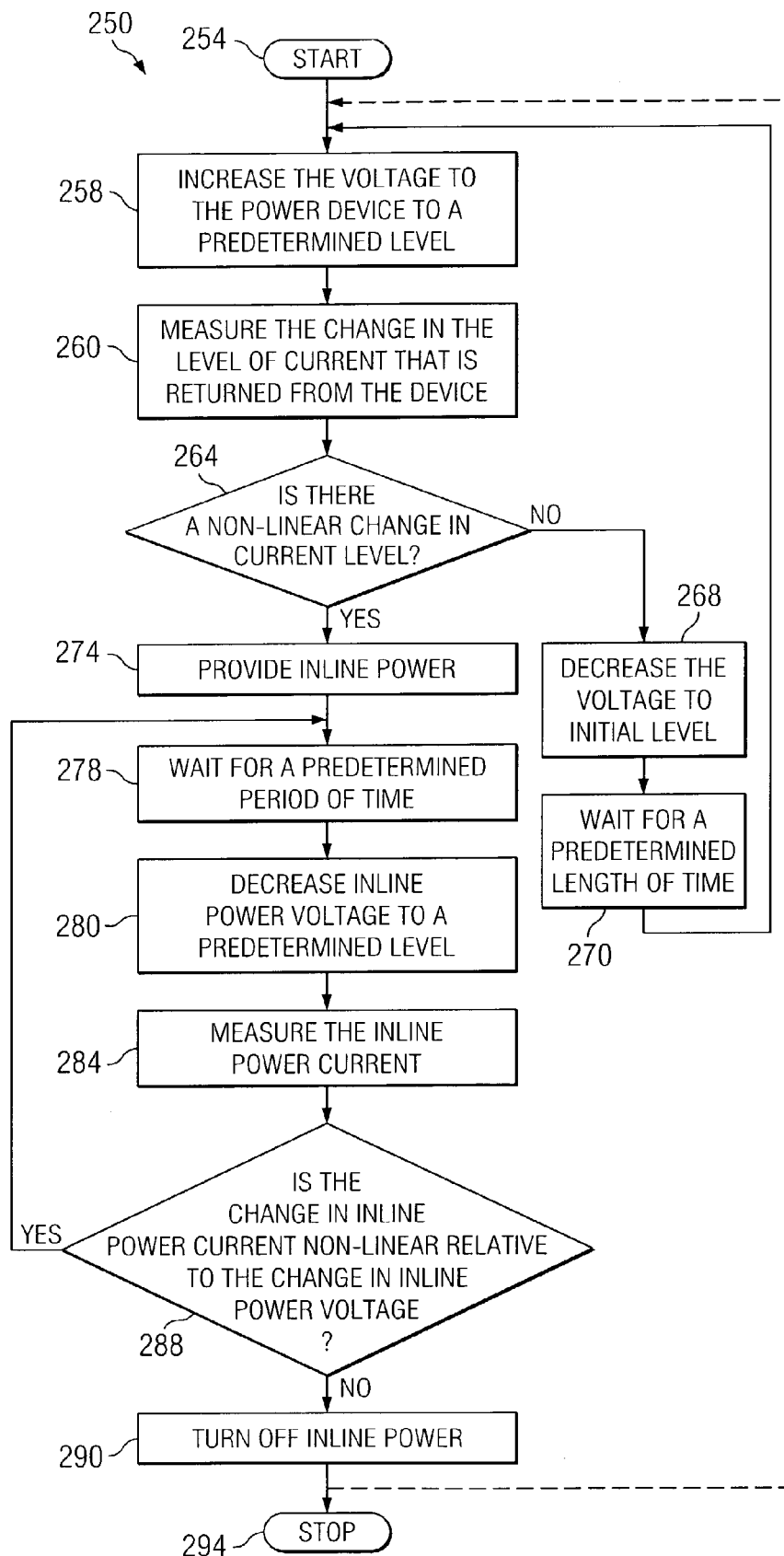


FIG. 11

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