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(54) **SYSTEMS AND METHODS FOR DETECTING POWER SOURCES**

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(57) **ABSTRACT**

Embodiments of the present invention include techniques for detecting power sources. In one embodiment, the present invention includes a method of detecting a power source comprising coupling a power source to a portable electronic device, the power source comprising a first supply voltage and a second supply voltage, and at least a first data terminal and a second data terminal, coupling a resistor to the first data terminal a predetermined time period after the power source is coupled to the electronic device, detecting the voltage on the first data terminal and second data terminal, and generating a first signal corresponding to a first power source if the first and second data terminals have the same voltage after said predetermined time period, and generating a second signal corresponding to a second power source if the first and second data terminals have differential voltages after said predetermined time period.

(73) Assignee: **Summit Microelectronics, inc.**, Sunnyvale, CA (US)

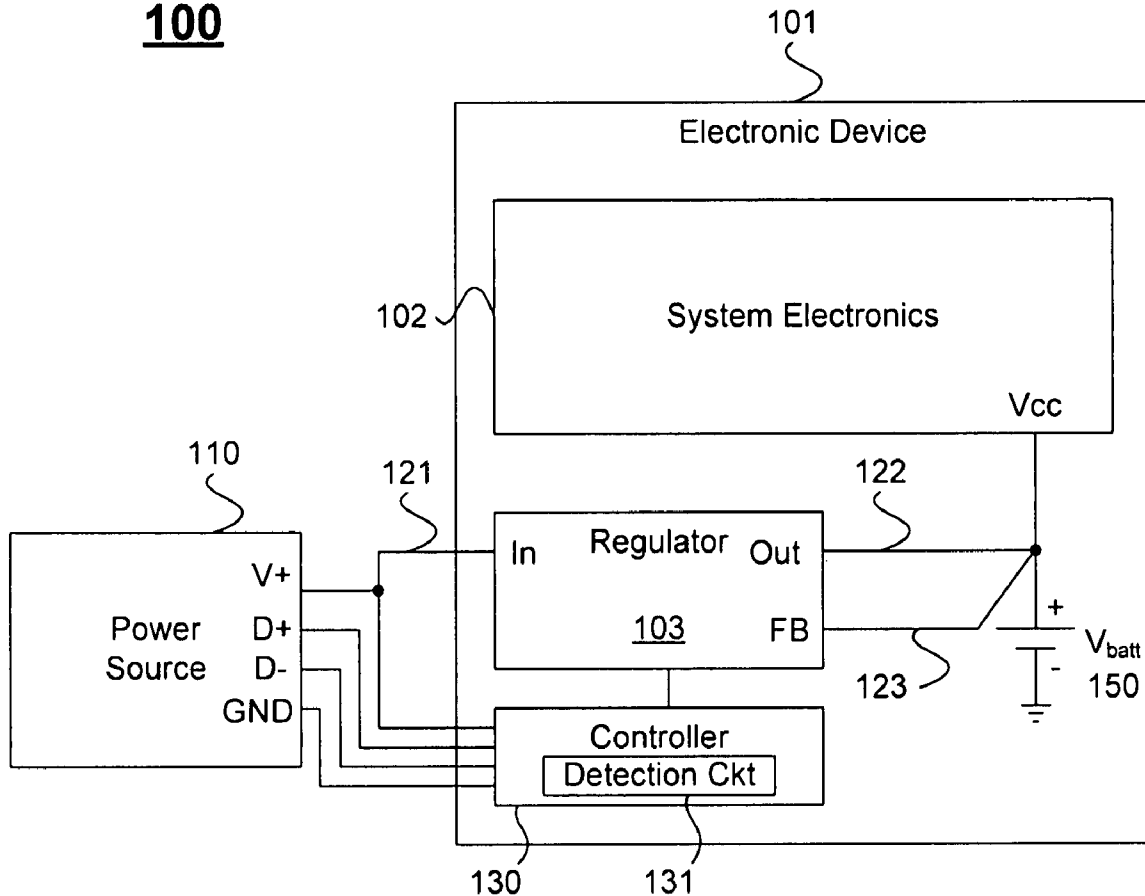
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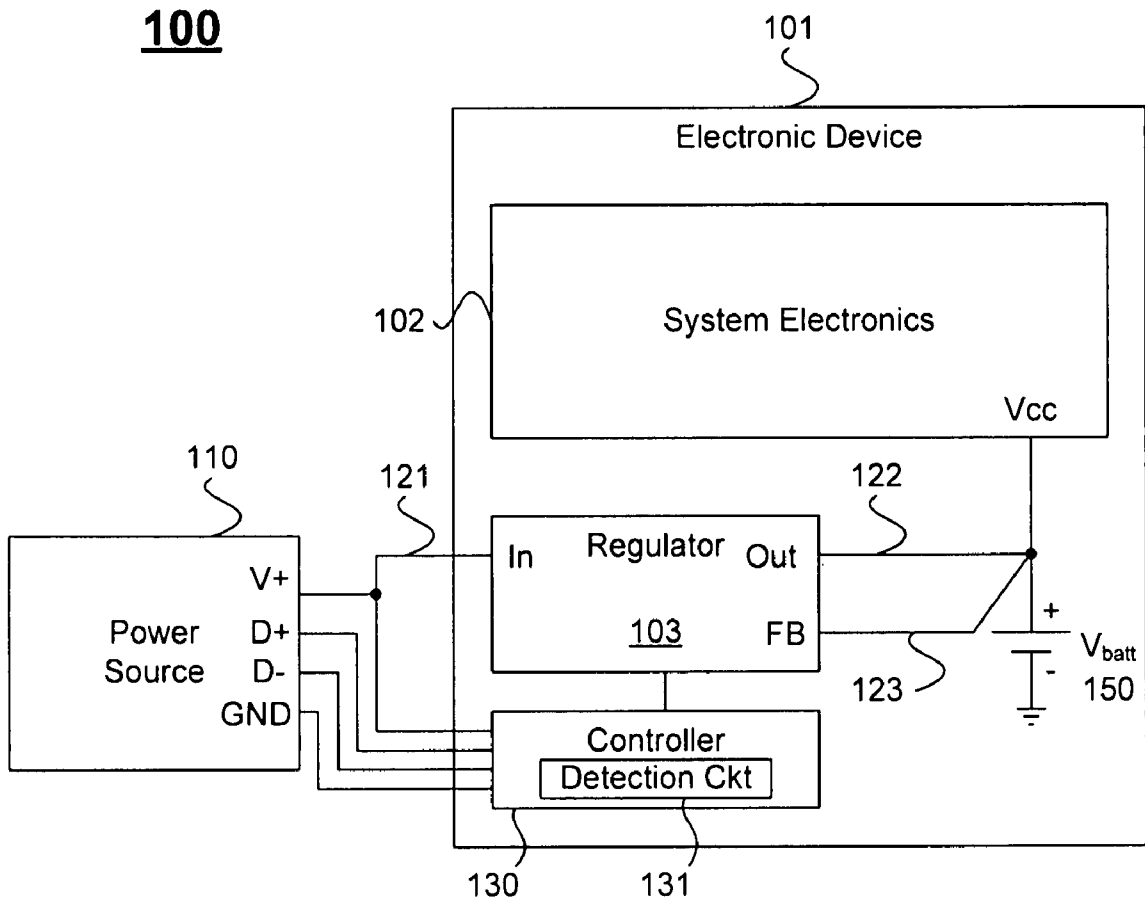


FIG. 1

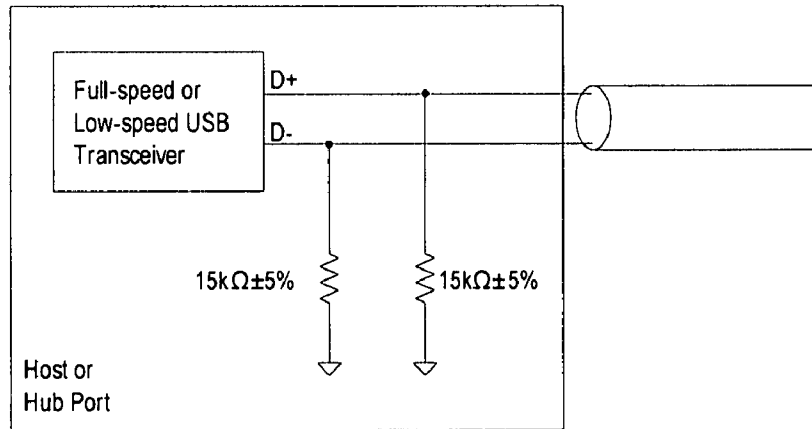


FIG. 2A

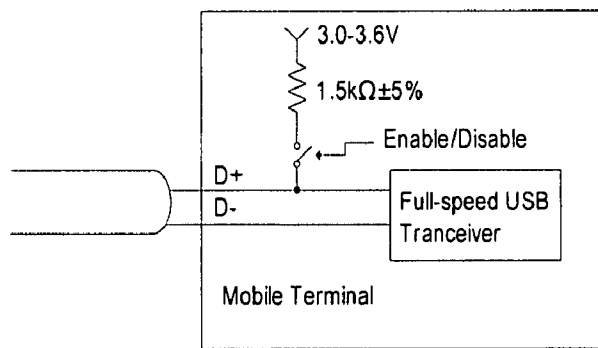


FIG. 2B

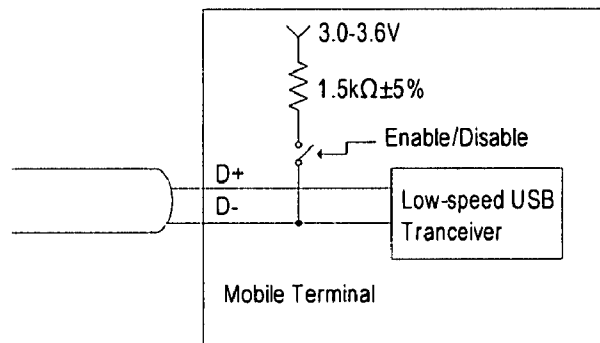


FIG. 2C

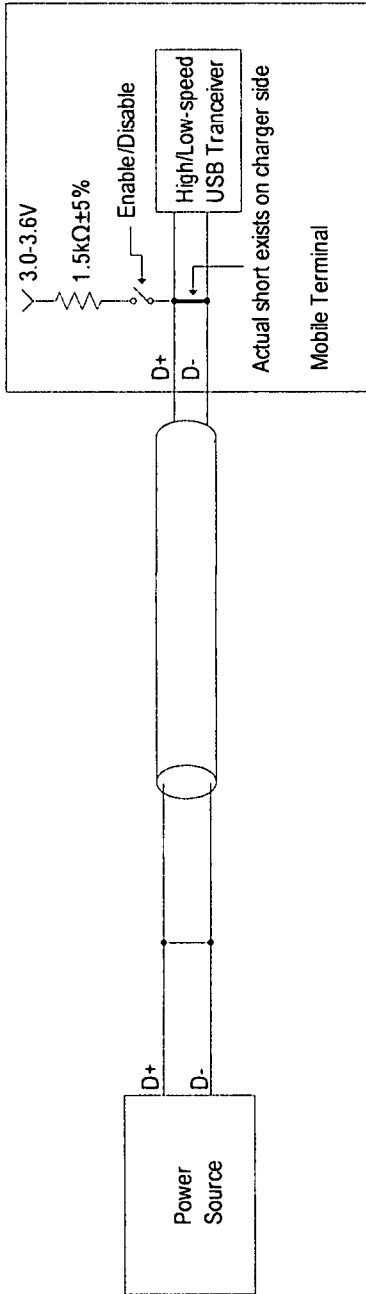


FIG. 3A

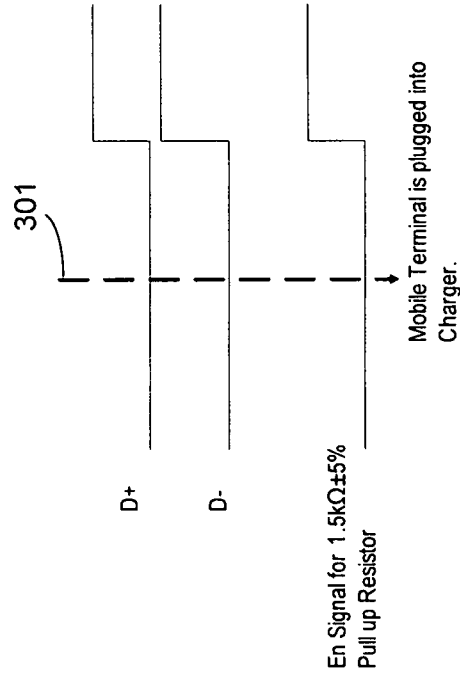


FIG. 3B

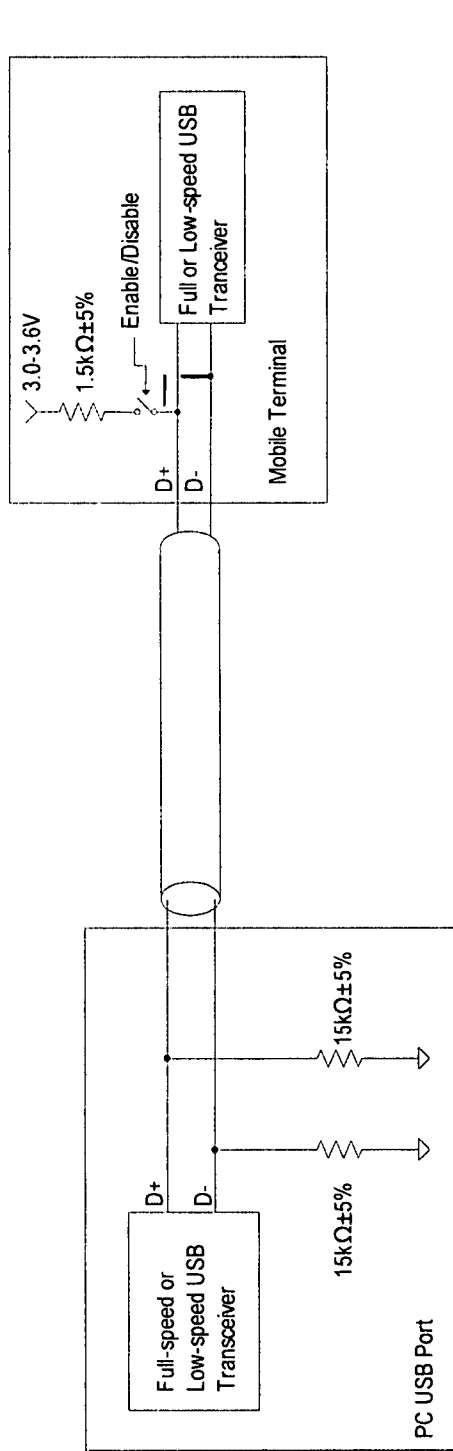


FIG. 4A

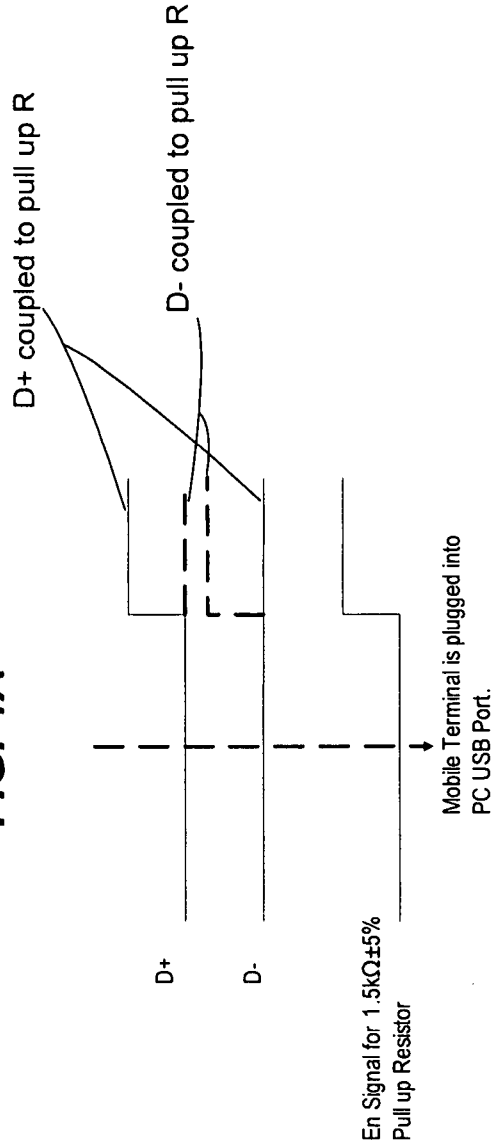


FIG. 4B

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