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(54) **ACCESSORY DEVICE IDENTIFICATION METHOD**

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CPC ***G06F 1/1632*** (2013.01); *G09G 2380/14* (2013.01)

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See application file for complete search history.

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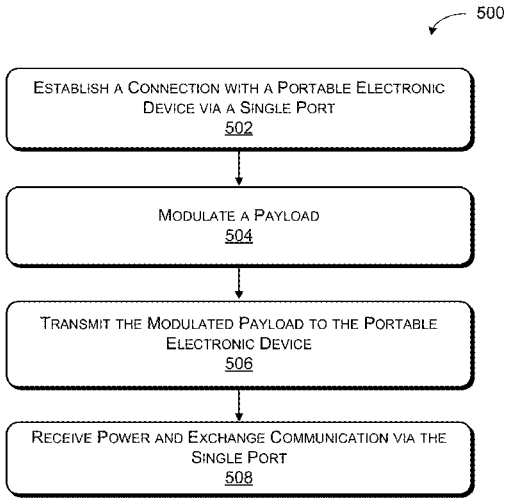
(57) **ABSTRACT**

A portable electronic device may identify an accessory device coupled thereto and its corresponding functionality utilizing a single channel utilized to provide power to the accessory device. Upon establishing a connection between the portable electronic device and the accessory device, the accessory device may transmit a message to the portable electronic device. The message may be decoded in order to identify the specific accessory device connected to the portable electronic device. Subsequently, the portable electronic device may alter its behavior to suit an application or function of the accessory device, thus leading to a more positive user experience.

27 Claims, 5 Drawing Sheets