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(54) **PROVIDING POWER TO AN ACCESSORY DURING PORTABLE COMPUTING DEVICE HIBERNATION**

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(57) **ABSTRACT**

A portable computing device (PCD) can selectively supply power to an accessory during PCD hibernation. In some embodiments, the PCD's default behavior is to disable accessory power output during hibernation, and this default behavior can be overridden in response to a request from a connected accessory. The accessory can use the power supplied during PCD hibernation to detect user input (or other) events and wake the PCD from hibernation in response to a detected event. Some accessories can wake the PCD by emulating accessory detachment and reattachment.

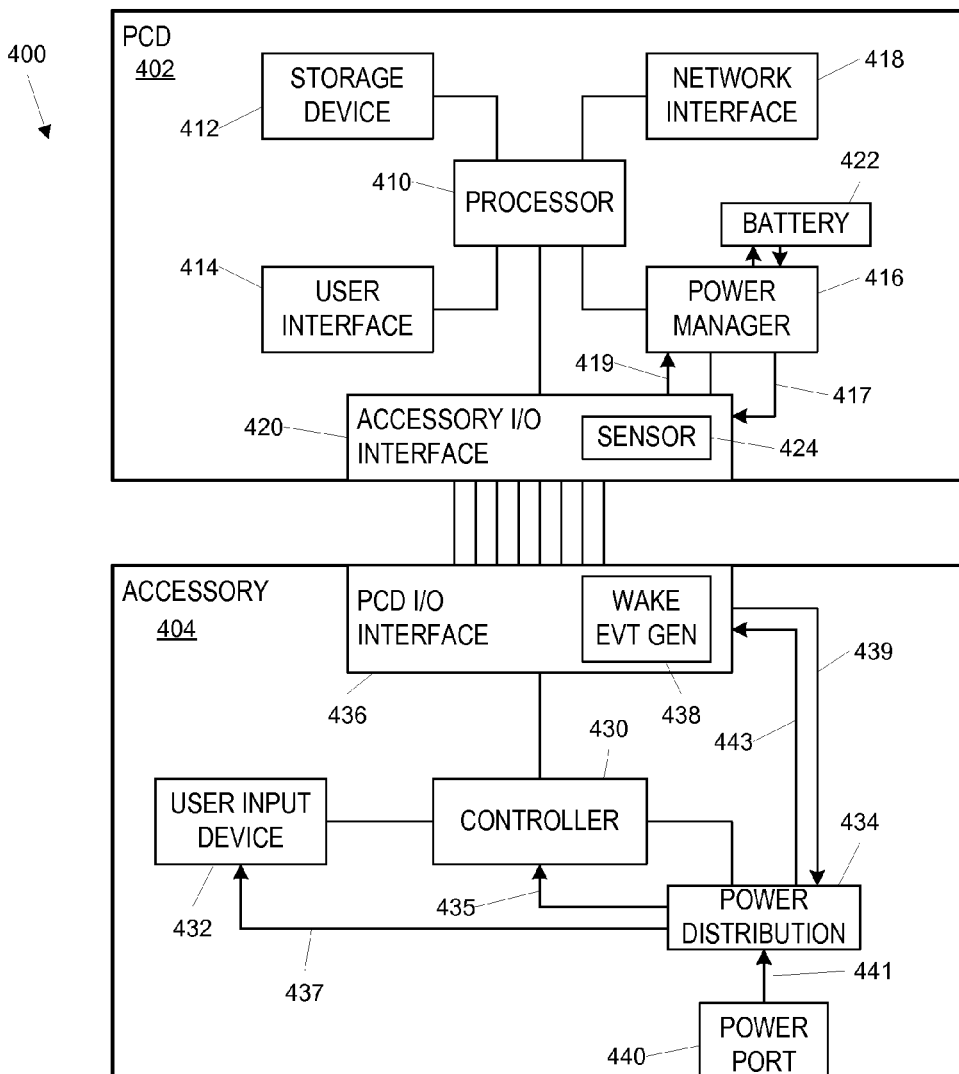
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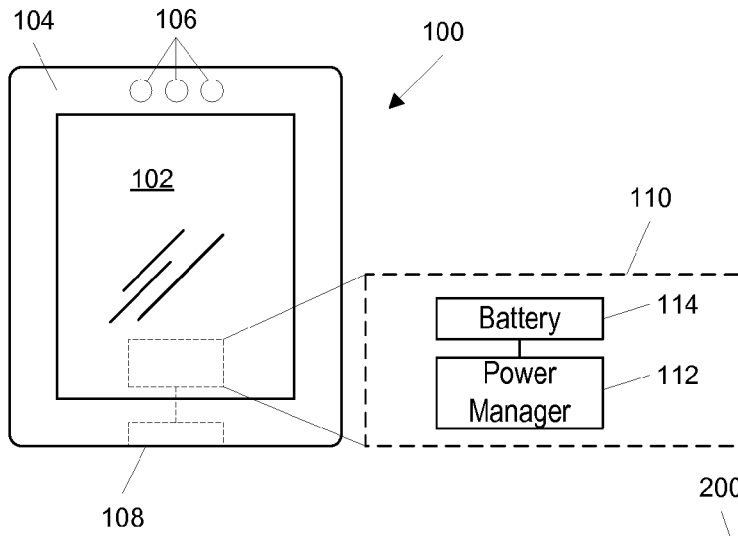


FIG. 1

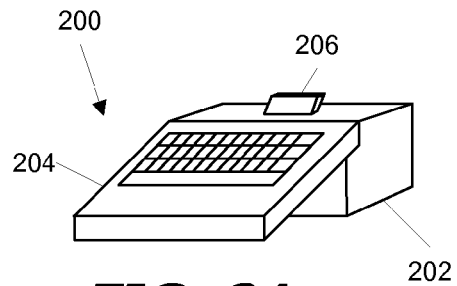


FIG. 2A

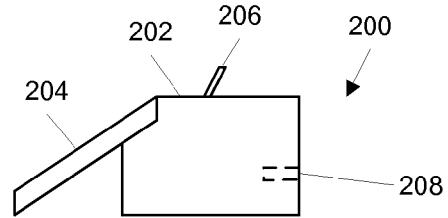


FIG. 2B

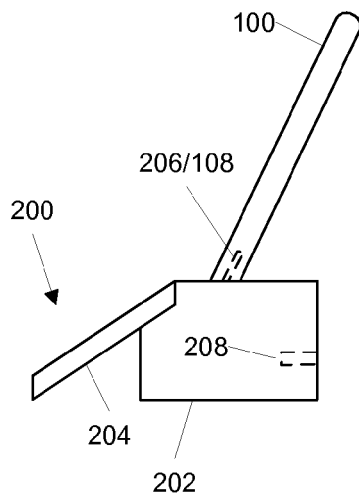


FIG. 3

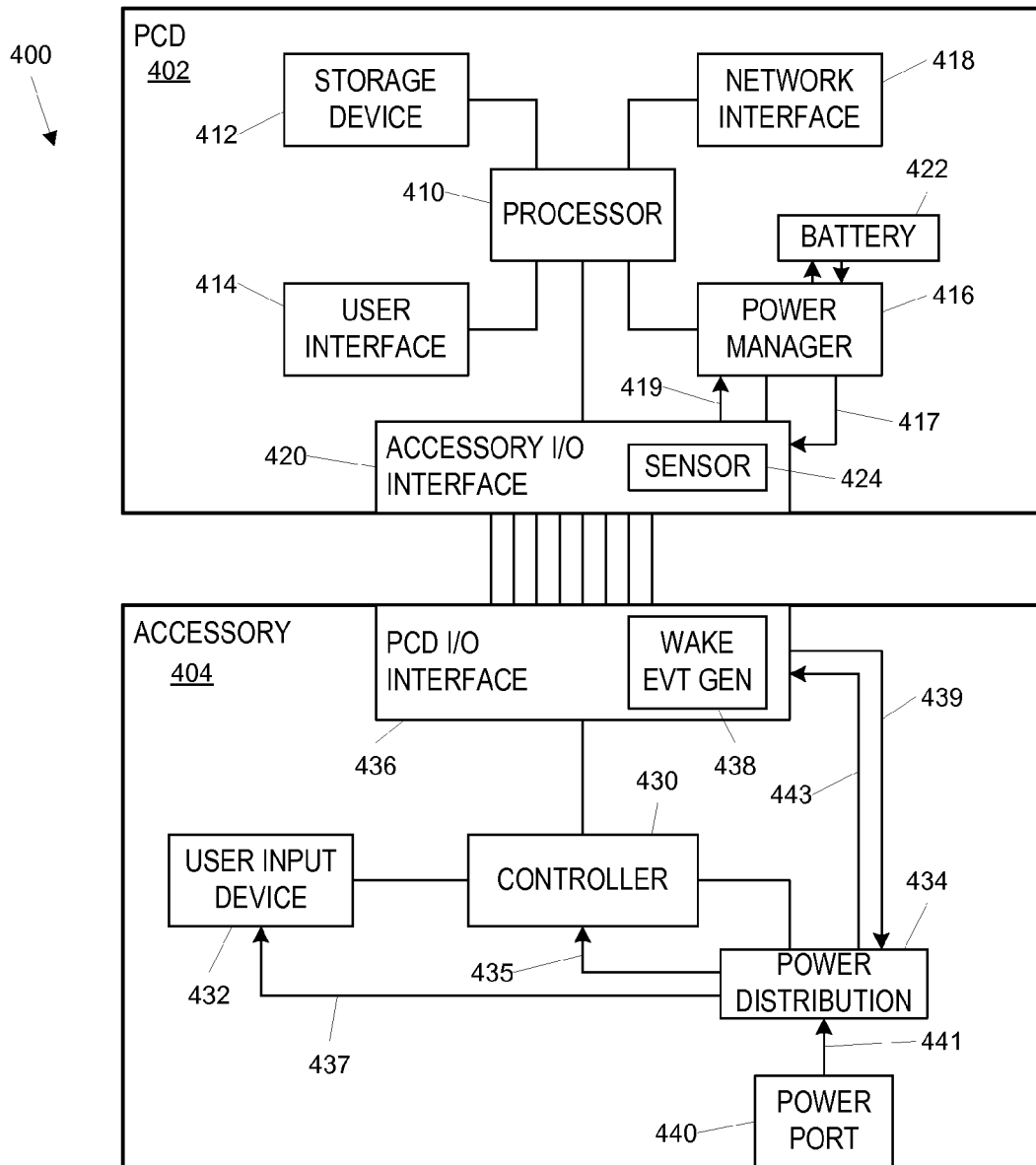


FIG. 4

500

| COMMAND | DIRECTION | PAYLOAD |
|-----------------|-----------|--------------------------|
| HibPowerRequest | A → P | Hib mode ID, power level |
| HibNotify | P → A | Hib mode ID |

FIG. 5

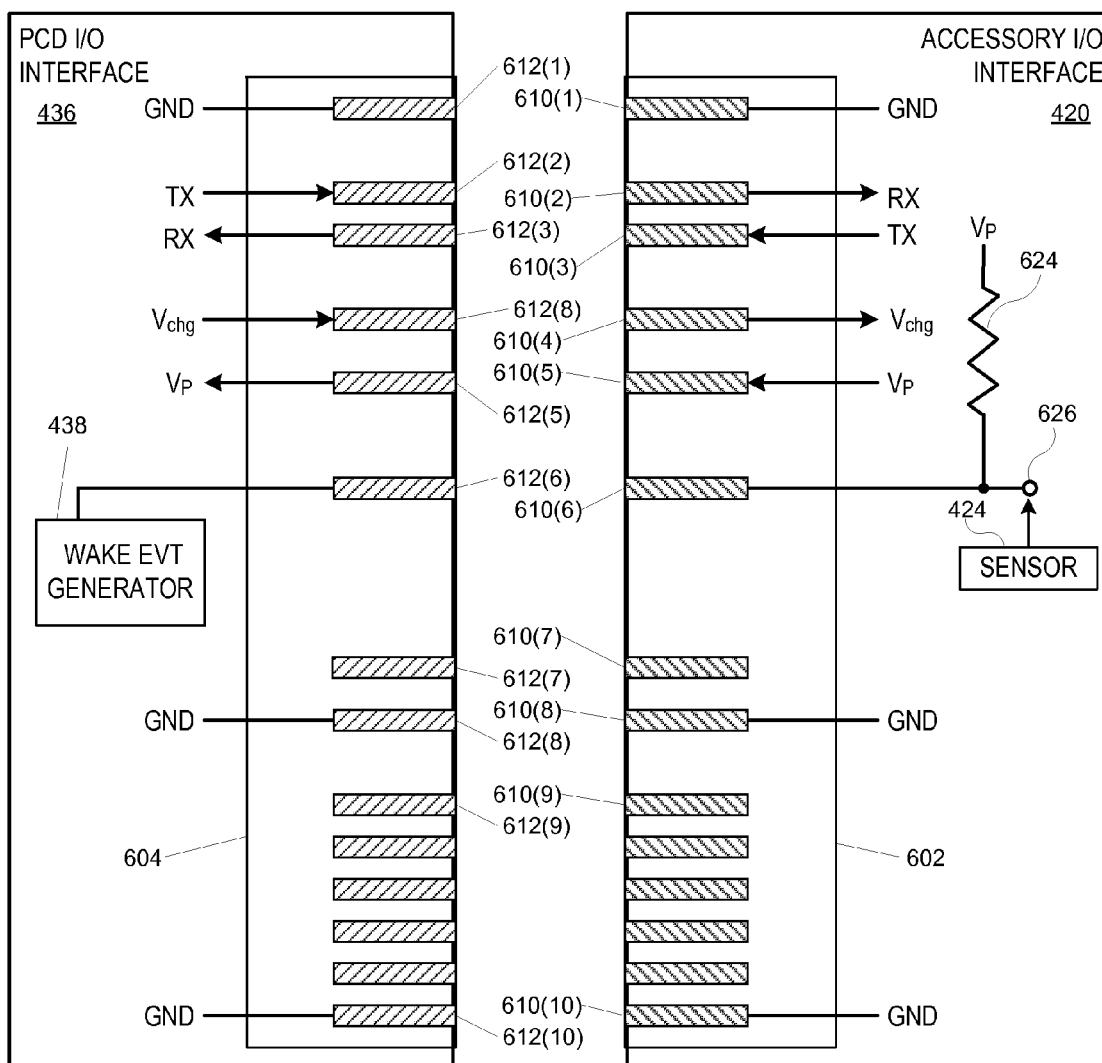


FIG. 6

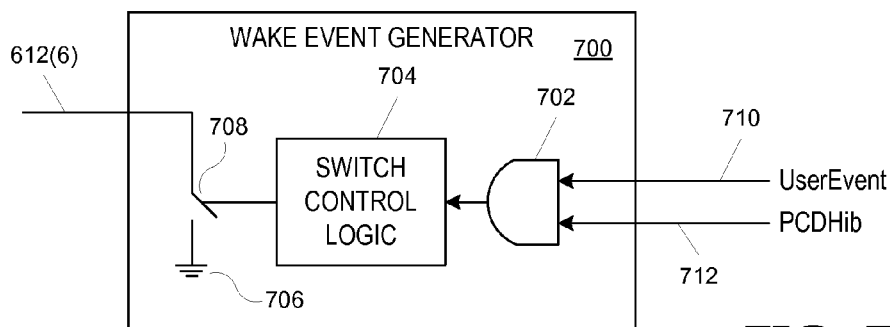


FIG. 7

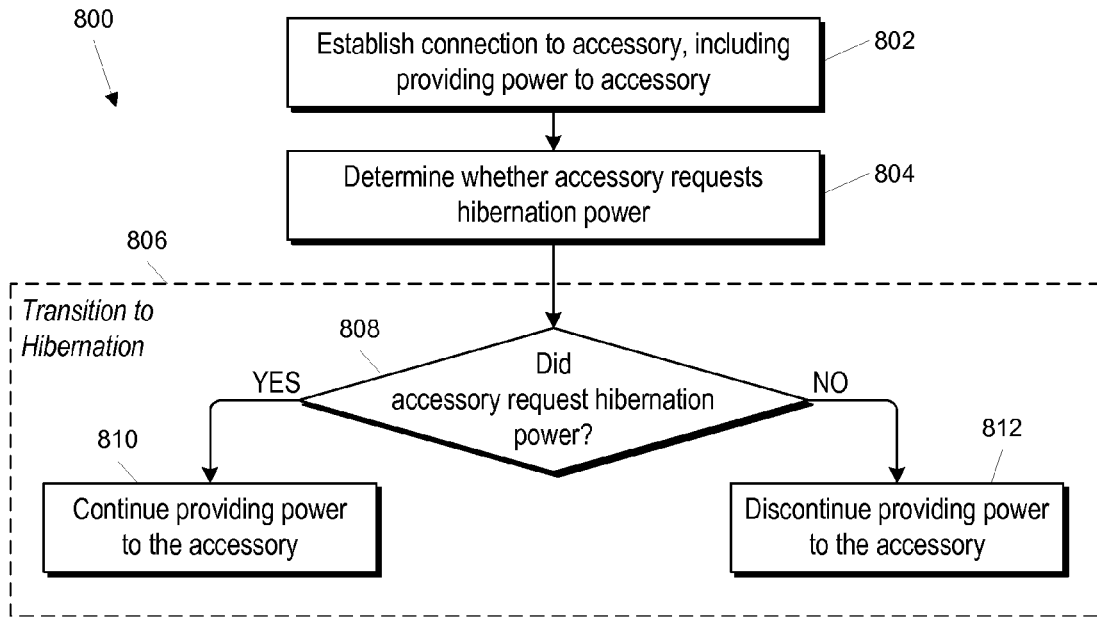


FIG. 8

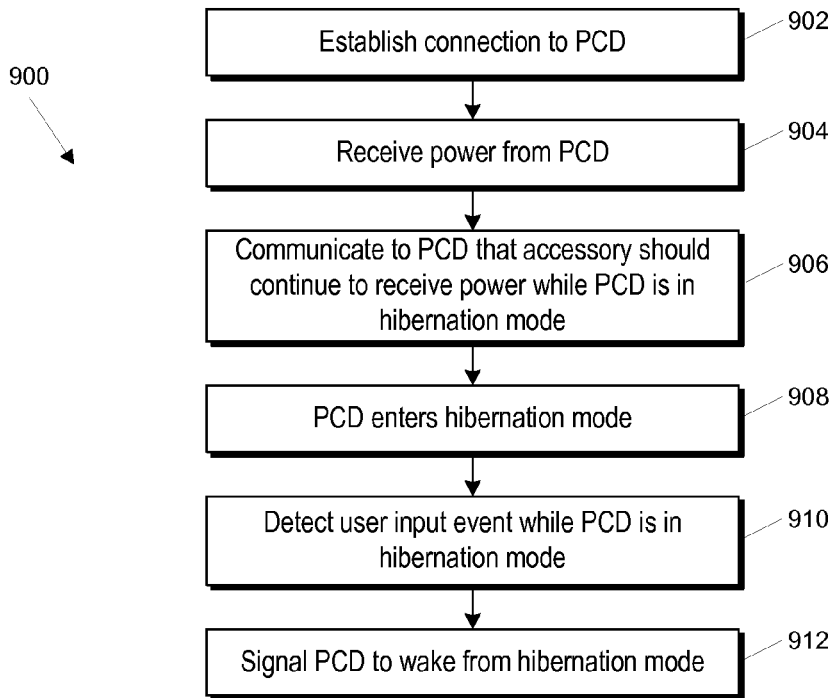


FIG. 9

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