



(12) **United States Patent**
Park et al.

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(54) **CONVERTIBLE COMPUTER WITH SELECTIVE ACTIVATION OF INPUT DEVICES AND POWER CONSUMPTION LEVEL BASED ON A TABLET OR NOTEBOOK MODE**

(52) **U.S. Cl.** **713/100; 713/1; 713/2; 713/300; 710/1; 710/8**

(58) **Field of Classification Search** None
See application file for complete search history.

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(73) Assignee: **LG Electronics Inc.**, Seoul (KR)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 443 days.

This patent is subject to a terminal disclaimer.

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(65) **Prior Publication Data**

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Related U.S. Application Data

(62) Division of application No. 11/598,777, filed on Nov. 14, 2006, now Pat. No. 7,472,267, which is a division of application No. 10/812,905, filed on Mar. 31, 2004, now Pat. No. 7,506,152.

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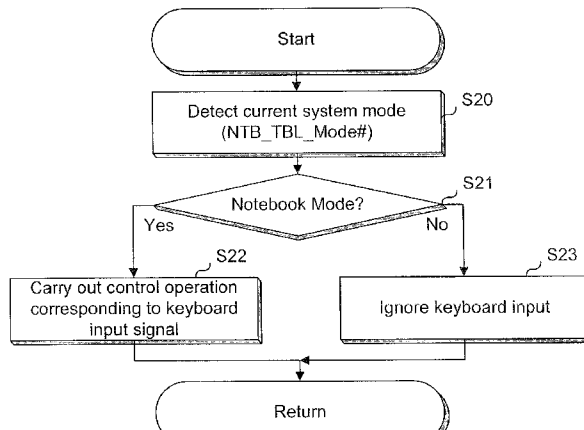
(51) **Int. Cl.**

G06F 9/00 (2006.01)
G06F 9/24 (2006.01)
G06F 15/177 (2006.01)
G06F 1/00 (2006.01)
G06F 3/00 (2006.01)

(57) **ABSTRACT**

A convertible computer is equipped with a notebook computer function and a tablet computer function. When a system power supply is turned on, a functionality or physical configuration such as rotation state of a display module can be detected, and an environment can be controlled such as an operating system (OS) for a tablet computer or notebook computer is selectively booted. Input signals of input units can also be controlled in an activation or inactivation state according to a system mode. An operation of switch sensing an open/closed state of a liquid crystal display (LCD) can be controlled by a signal generated by the rotation operation of the display module. In a state in which at least one control value necessary for setting a system environment is stored in a memory, the system mode switching operation is monitored and the system environment is set according to the switched system mode.

10 Claims, 11 Drawing Sheets



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FIG. 1 (Prior Art)

Notebook Computer Mode

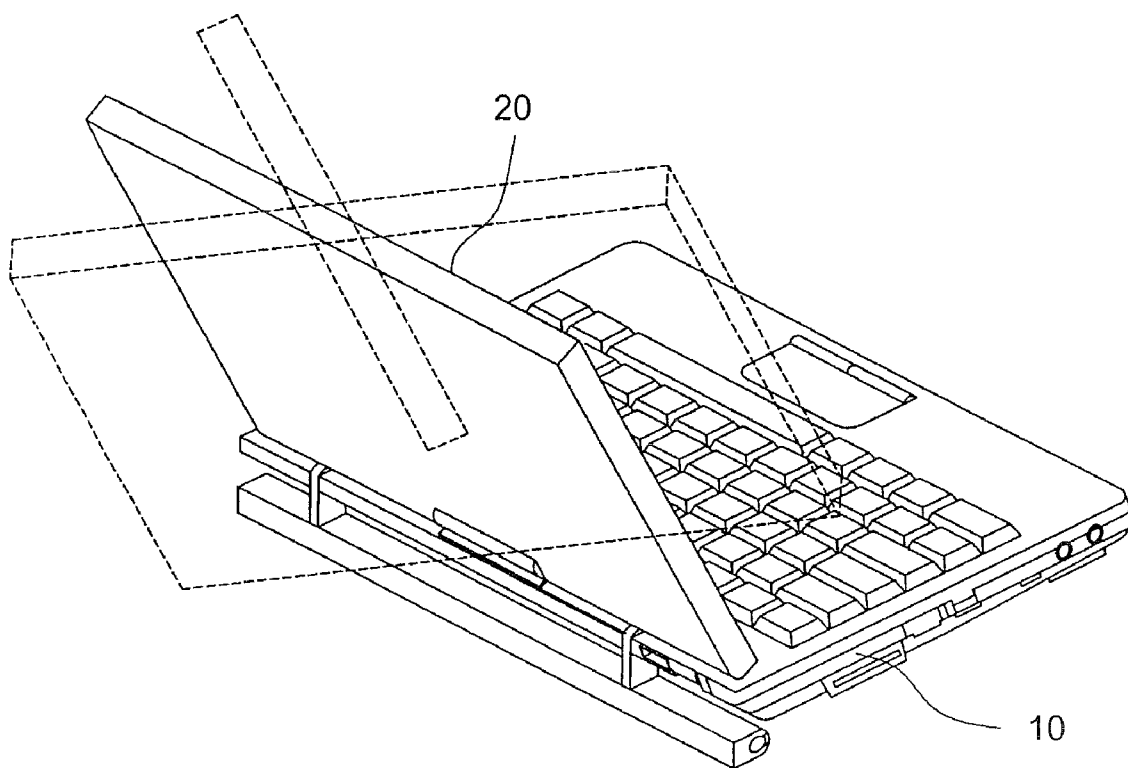


FIG. 2
(Prior Art)

Tablet Computer Mode

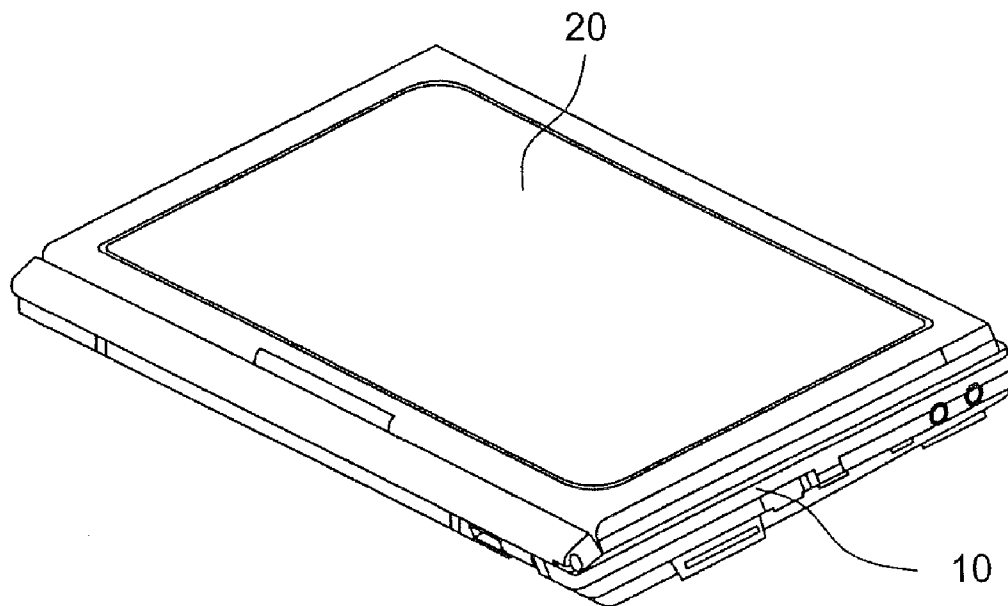
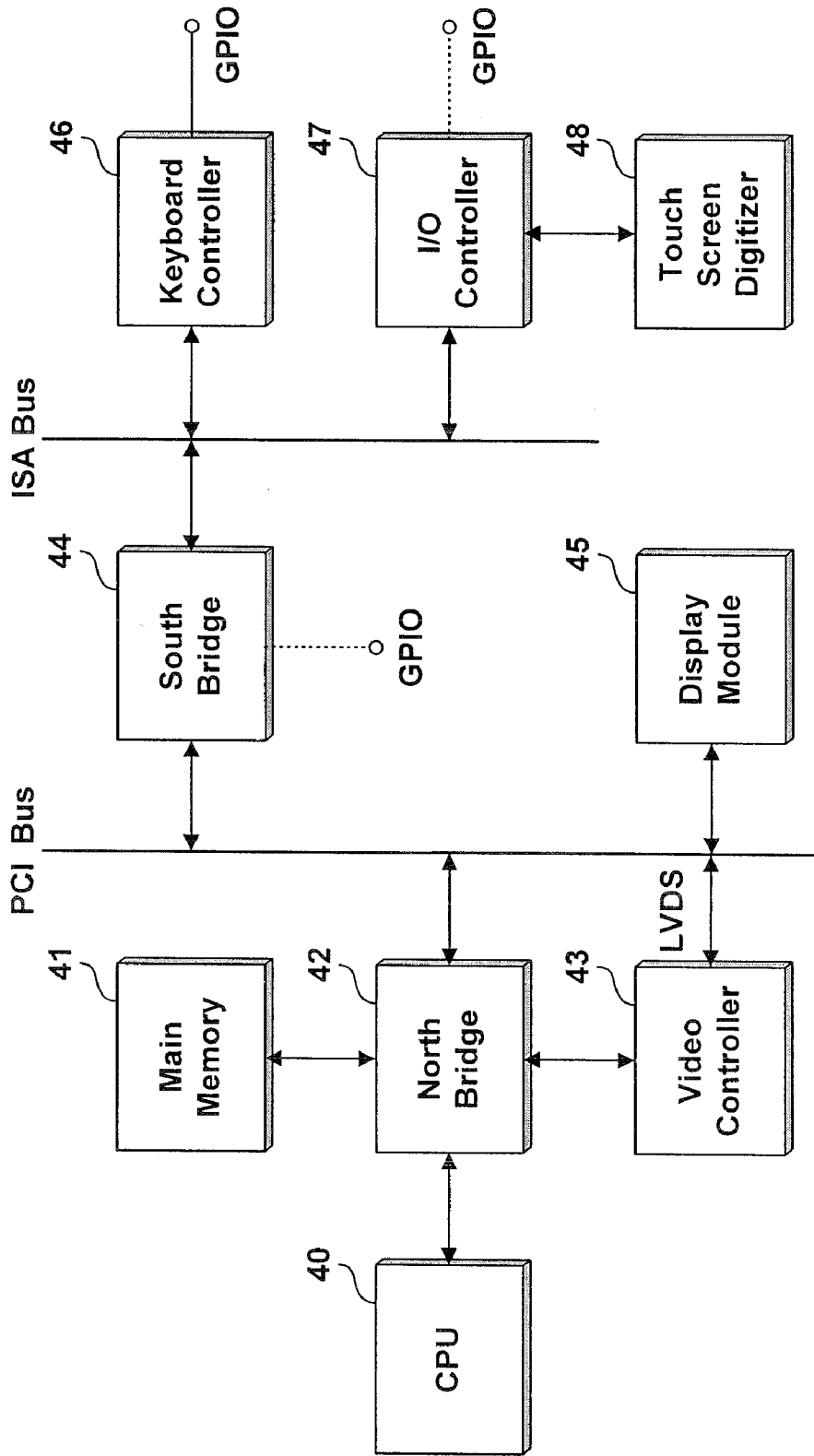


FIG. 3



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