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(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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(\* ) 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.

(30) **Foreign Application Priority Data**

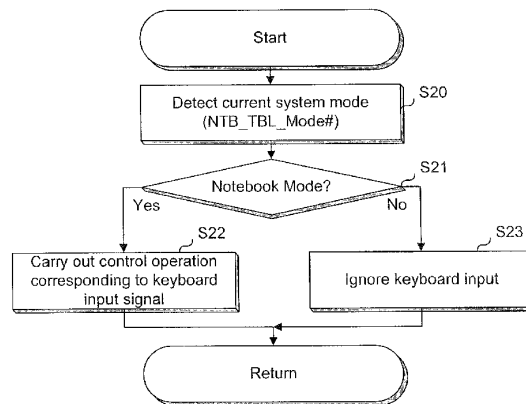
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(51) **Int. Cl.**  
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**G06F 1/00** (2006.01)  
**G06F 3/00** (2006.01)

(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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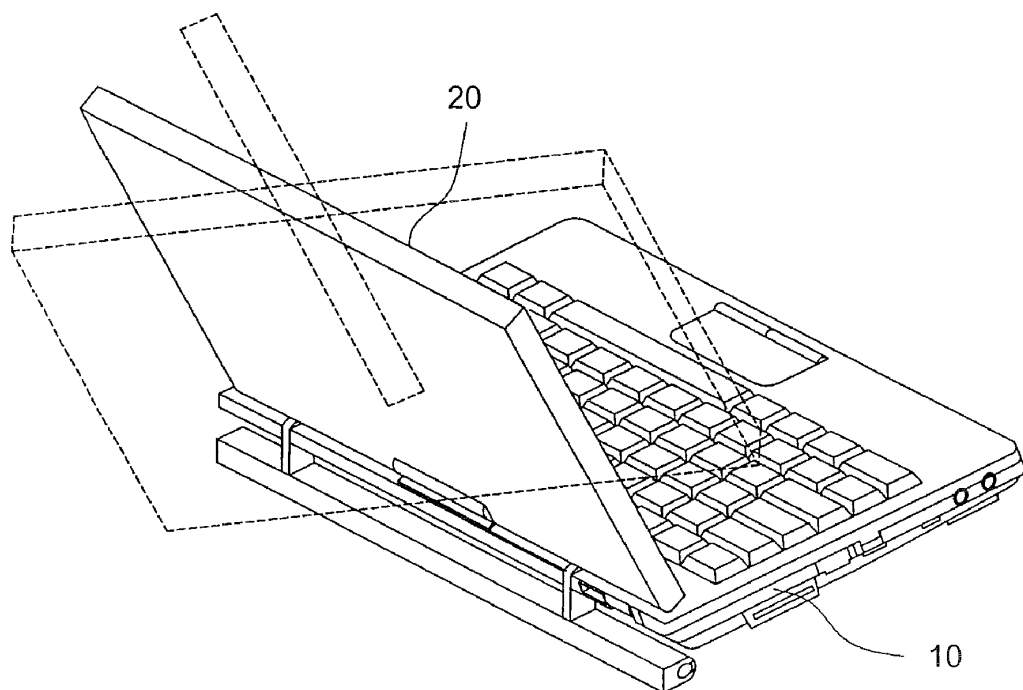
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**FIG. 1**  
**(Prior Art)**

**Notebook Computer Mode**



**FIG. 2**  
**(Prior Art)**

*Tablet Computer Mode*

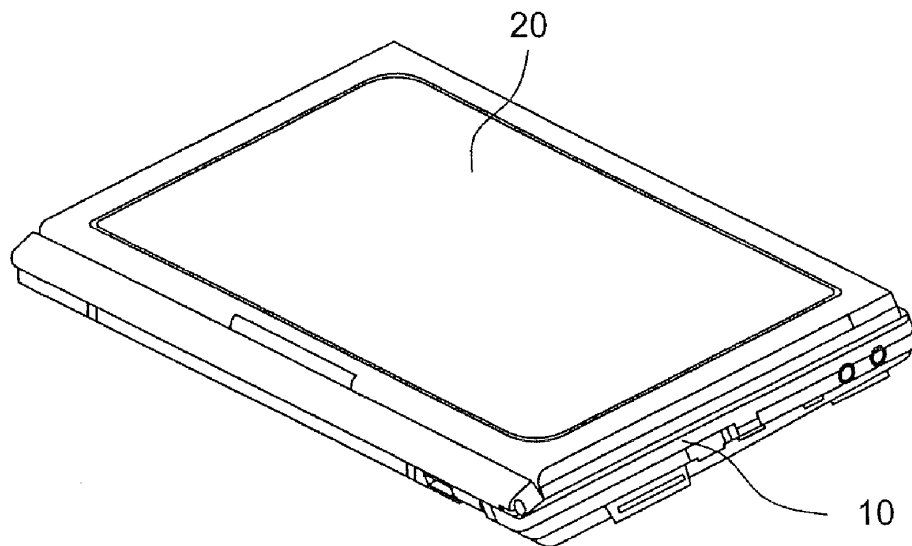
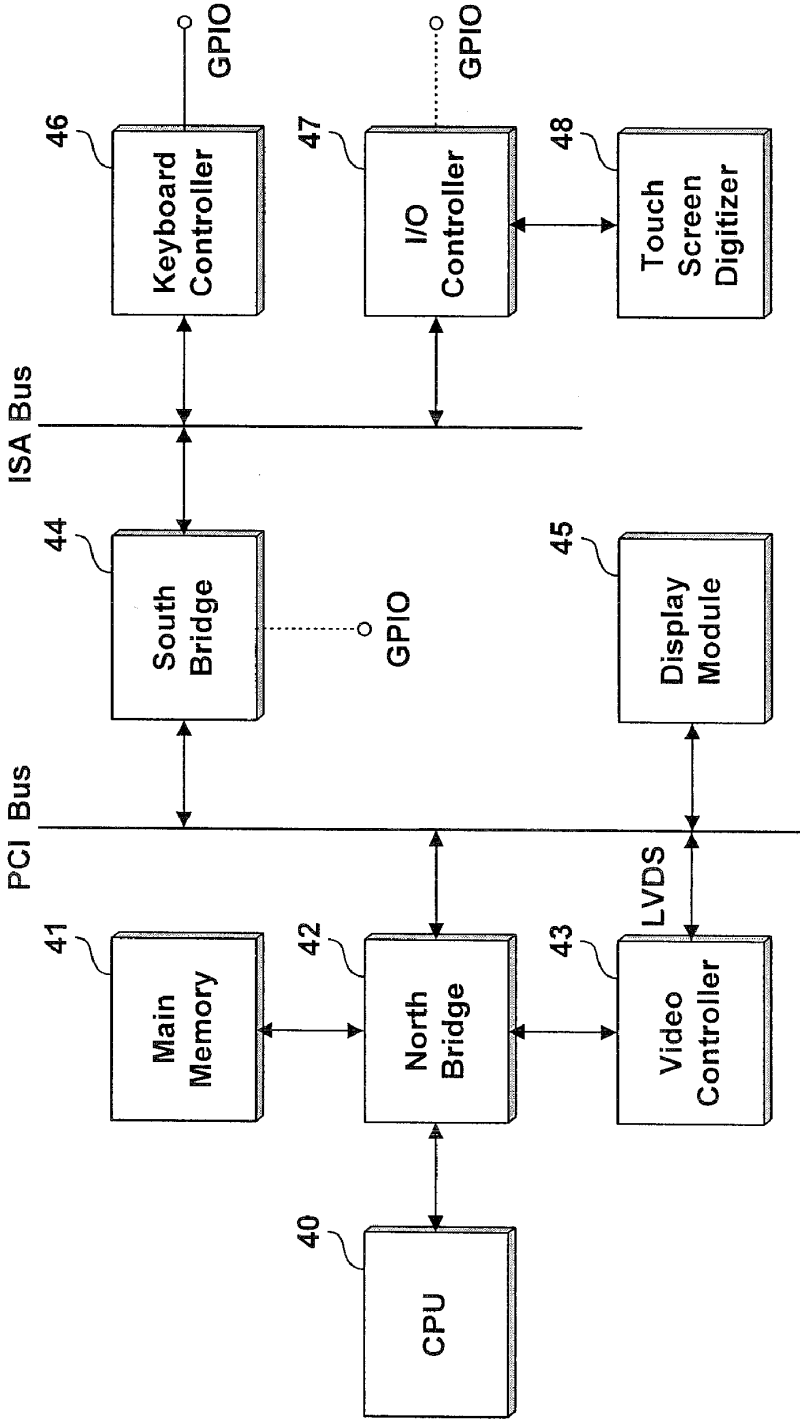


FIG. 3



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