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2. I hereby certify that I prepared the foregoing translation of the Patent Application Publication No. H08-179851 – Publication Date: July 12, Heisei 8 (1996) regarding **Portable Computer**.
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(71) Applicant: 000003078

**Toshiba Corporation**  
72 Horikawa-cho, Saiwai-ku,  
Kawasaki-shi, Kanagawa-ken

(72) Inventor: **Shigeo Takagi**  
c/o: Toshiba Corporation Kansai Branch  
1-1-30, Oyodonaka, Kita-ku,  
Osaka-shi, Osaka

(74) Agent: **Hidekazu Miyoshi**, Patent Attorney (plus 3)

**(54) TITLE OF THE INVENTION: Portable Computer**

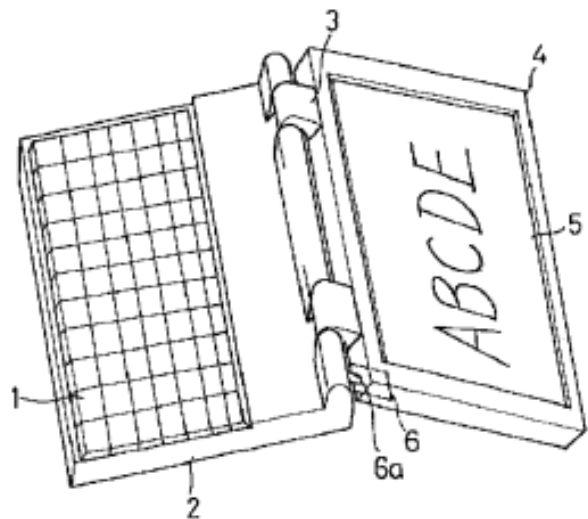
**(57) ABSTRACT**

**PURPOSE:** To achieve a portable computer, whereby the content presented on the display is rotated by 180 degrees when the user opens the display wide so that the other party who is seated face-to-face with the user can view the displayed image at the properly erected angle, thereby making it easier to provide presentations.

**CONSTITUENT ELEMENTS:** A freely openable/closable portable computer that comprises a display attached to the lid side and a keyboard attached to the main-body side, said portable computer being provided with:

An opening-angle sensor that detects when the opening angle of the display reaches a predetermined value or goes beyond the predetermined value; and

A display processing part that rotates the contents presented on the display by 180 degrees when said opening-angle sensor detects that the opening angle of the display has reached the predetermined value or goes beyond the predetermined value.



## WHAT IS CLAIMED IS:

### CLAIM 1

A freely openable/closable portable computer that comprises a display attached to the lid side and a keyboard attached to the main-body side, said portable computer being provided with:

An opening-angle sensor that detects when the opening angle of the display reaches a predetermined value or goes beyond the predetermined value; and

A display processing part that rotates the contents presented on the display by 180 degrees when said opening-angle sensor detects that the opening angle of the display has reached the predetermined value or goes beyond the predetermined value.

## DETAILED DESCRIPTION OF THE INVENTION

[0001]

### FIELD OF INDUSTRIAL APPLICATION

The present invention pertains to portable computers, such as laptop computers, notebook computers, subnotebook computers, and the like.

[0002]

### PRIOR ART

Conventionally, portable computers, such as laptop computers, notebook computers, subnotebook computers, and the like, have been popular in a wide range of applications. In many occasions, the users carry such portable computers with them to business negotiations with their customers and use the displays of the portable computers to provide presentations to the customers as a part of the business negotiations.

[0003]

### PROBLEMS TO BE RESOLVED BY THE INVENTION

However, conventional portable computers do not provide enough flexibility and convenience to facilitate smooth business negotiations when such negotiations are carried out by parties sitting across a table from each other. For instance, when a user negotiates a business deal with another party sitting face-to-face across a table in a conference room, or the like, the user needs to turn the main body of the computer around toward the other party, or have the other party move to the user's side of the table. In the former case, in which the user turns the computer around to the other side of the table so that the other party can see the display, it is time-consuming because the user has to change the display setting of the screen through the operation of the keyboard, and then turn the computer back toward him- or herself after he or she finished showing the screen to the other party. Or, in the latter case, in which the user and the other party view the screen together on the same side of the table, it is cumbersome to ask the other party to move to the user's side and sit next to him or her – especially when the other party is a customer.

[0004] This invention was arrived at in view of such conventional problems, and therefore is intended to provide a portable computer that automatically rotates the contents presented on the display by 180 degrees when the user opens the display wide so that the other party across the table can see the displayed images at the properly erected angle.

[0005]

#### **MEANS FOR ACHIEVING THE OBJECTIVE**

This invention claims a freely openable/closable portable computer that comprises a display attached to the lid side, and a keyboard attached to the main-body side, said portable computer being provided with:

An opening-angle sensor that detects when the opening angle of the display reaches a predetermined value or goes beyond the predetermined value; and

A display processing part that rotates the contents presented on the display by 180 degrees when said opening-angle sensor detects that the opening angle of the display has reached the predetermined value or goes beyond the predetermined value.

[0006]

#### **OPERATION OF THE INVENTION**

With the portable computer according to the present invention, when it becomes necessary to show a content on the display to the other party who is sitting face-to-face across the table during a conversation, the user only needs to open the lid side (to which the display is attached) wide enough for the other party to be able to see the display because

the opening-angle sensor will detect such an action, whereupon the display processor is caused to rotate the contents, which have been presented on the display, by 180 degrees.

[0007] This makes it possible for the user to open the display wide so as to show a normal display to the other party across the table while operating the keyboard on the main body in a normal posture from the other side of the table.

[0008]

#### **WORKING EXAMPLE**

The following is a detailed explanation of a working example of the present invention with reference to drawings: The Figures 1 and 2 show exterior appearances of the portable computer according to a working example of the present invention, which comprises:

A main body 2 that is provided with a keyboard 1;

A lid 4 that is coupled to said main body 2 with hinges 3 in such a way that the lid 4 can be freely opened and closed; and

A display 5 that is attached to the lid 4.

Furthermore, an opening-angle sensor 6 is provided on the hinge-side end surface of the lid 4 in such a way that the protrusion 6a comes into contact with the back side of the main body 2 and thereby actuates a switch operation when the lid 4 is opened to an angle equal to or greater than 180 degrees.

[0009] Figure 3 shows a circuit configuration of the portable computer according to the present working example. Similar to the configuration in a regular computer, it is provided with the following elements:

A central processing unit (CPU) 7;

A main memory 8;

An input processing part 9 that performs the input processing of input-operation signals (which are obtained from the keyboard 1) into the CPU;

A display processing part 10 that performs the control operation so as to cause the display data from the CPU 7 to be displayed on the display 5; and

An external storage 11, such as a hard disk, a floppy disk, or the like.

[0010] The keyboard 1 is connected to the input processing unit 9; and sensing signals from the opening-angle sensor 6 are input into the input processing unit 9 as well. The opening-angle sensor 6 is configured so that, when the lid 4 is opened to an angle equal to or greater

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