

[0356] FIGS. 60A and 60B are conceptual diagrams showing the operating procedure. The display input device 10 of this example has a size settled in a palm, and the form change detection unit 30 and the data input part 50 of a jog wheel type are provided.

[0357] The data input part 50 serves both as the ON/OFF change of detection of a bending, and a selection button. That is, while pushing the data input part 50, an input function by bending is turned ON. Moreover, an active choice can also be selected by pushing the data input part 50.

[0358] On the other hand, scrolling of a selection item or a display screen can be performed by rotating the wheel of the data input part 50. In the drawings, the case where the jog wheel-like data input part 50 is operated with the thumb is illustrated, while holding and supporting in the left palm. However, the device may be made to be operated on a right palm of the user.

[0359] Pushing the data input pan 50 in the state holding by a single hand, the user 200 changes the menu display by bending the display input device 10 temporarily in the order of FIGS. 60A, 60B and 60A. Then, either of the choices is activated by rotating the wheel of the data input part 50. Then, the choice activated can be selected by pushing the data input part 50.

THIRTEENTH EXAMPLE

[0360] Next, the thirteenth example of the invention will be explained.

[0361] FIGS. 61A and 61B are schematic diagrams showing the display input system concerning this example.

[0362] FIGS. 62A through 63 are conceptual diagrams showing the operating procedure. The display input device 10 of this example is an equipment of size settled in a palm, as well as the twentieth example. And the first data input part 50A is prepared in the side of equipment, and the second data input part 50B is prepared in the back of equipment.

[0363] The first data input part 50A is the ON/OFF switch for the bending detection function. The second data input part 50B is a button type switch for selecting a final state. These switches can be pushed and operated with a respectively different finger. The second data input part 50B may not be a mere pressing button but a button which has directivity in the pressing direction, a jog dial, a jog wheel, a tracking pad, etc.

[0364] A user 200 holds the device in one hand, and while pushing the first data input part 50A, changes the contents of the display unit 20 by adding temporary bending to the display input device 10, as shown in FIGS. 62A and 62B. For example, choices A through D which are shown in FIG. 63 are activated in order whenever bending is added to the device.

[0365] FIG. 63 illustrates the state where choice B is activated. In this state, an active choice can be selected by pushing the second data input part 50B.

FOURTEENTH EXAMPLE

[0366] Next, the fourteenth example of the invention will be explained.

[0367] FIGS. 64A and 64b are schematic diagrams showing the display input system concerning this example. The display input device 10 of this example has the posture change detection unit 40 on both sides of the upper end.

[0368] This display input device 10 can be used as an electronic viewer which can peruse the books contents for example, covering many pages at high speed. Under the display unit 20, first data input part 50A and second data input part 50B are provided. The form change detection unit 30 is provided in the inside.

[0369] Pushing the first data input part 50A, the user 200 is adding temporary bending to the display input device 10, as illustrated in FIG. 64B, then he can perform page turning-over operation. Moreover, in this way, while pushing the first data input part 50A and adding the bending, the user inclines the whole device as shown in FIG. 65A. Then, the posture change detection unit 40 detects this inclination, and pages are turned over from the right to the left in the display unit 20.

[0370] Alternatively, if the whole device is conversely inclined as shown in FIG. 65B, pages will be turned over from the left to the right. The posture change detection unit 40 may detect the absolute value of all inclination, or may detect the speed or acceleration of an inclination. Moreover, one posture change detection unit 40 may be provided. However, when an acceleration sensor etc. is used as a posture change detection unit 40, it becomes possible to detect the inclination of a horizontal direction by high sensitivity, by preparing then in right and left of equipment 10, respectively.

[0371] Gradual operation from under a threshold value (page turning-over stop) to the high-speed page turning-over mode of exceeding maximum value is possible according to the level of the detection signal acquired from the posture change detection unit 40. Moreover, if the button of 1st data input part 50A is detached, the page turning over operation can be compulsorily stopped, so that it can change from high-speed page turning-over mode to a halt condition instantly.

[0372] Moreover, operation selection of contents exchange etc. can be performed by using the second data input part 50B.

FIFTEENTH EXAMPLE

[0373] Next, the fifteenth example of the invention will be explained.

[0374] FIG. 66 is a schematic diagram showing the display input system concerning this example. In the display input device 10 of this example, the position of the posture change detection unit 40 in the fourteenth example is changed. In this example, as expressed in FIG. 67, page turning over (operation similar to crying out in a block-calendar) of the up-and-down direction can be performed by making equipment 10 incline forward and backward. The other operation methods can be made to be the same as that of the fourteenth example etc.

[0375] Moreover, the posture change detection unit 40 may detect the absolute value of an inclination, or may detect the speed or acceleration of an inclination also in this example. One posture change detection unit 40 may be provided. However, when an acceleration sensor etc. is used as a posture change detection unit 40, it becomes possible to detect the inclination of a vertical direction by high sensitivity, by preparing then in upper and lower sides of equipment 10, respectively.