

execution instruction. It is needless to say that the CPU 32 for controlling the layered sheet unit 140 for presenting a sense of touch controls the air-circulation unit 3A so as to supply the air to the three layered element bag portions E1 to E25 for presenting a sense of touch of the layered sheet unit 140 corresponding to the image contents displayed on the display unit 29, and the touch-sensitive variable sheet units 141 to 143 are available at predetermined positions of the base members 104, 105, 106 corresponding to the image contents.

[0250] By setting these as the operation panel changeover condition, the CPU 32 inputs the application execution instruction at step ST21 of the flowchart shown in FIG. 27. The application execution instruction is given to the CPU 32, for example, by making power switch-ON information as a trigger. Thereafter, the process shifts to step ST22 where the CPU 32 branches the control thereof depending on whether the application execution instruction is an execution instruction of the application #1 or other application execution instruction. If the application execution instruction is the application #1, the process shifts to step ST23 where the CPU 32 reads the control information of the application #1. The control information is made correspondence with the application #1, the application #2, the application #3 or the like beforehand. The CPU 32 controls the display unit 29 so as to change over the display thereof based on the control information.

[0251] At that time, the CPU 32 outputs an image signal Sv to the display unit 29 based on the control information. The display unit 29, based on the image signal Sv, displays the icon images of the key K1 of numeral "1" to the key K10 of numeral "0", the key K11 of symbol "*", the key K12 of symbol "#" or the like, the key K13 of determination "O" of the cross key, the left facing arrow key K14 thereof, the upward facing arrow key K15 thereof, the right facing arrow key K16 thereof and the downward facing arrow key K17 thereof, which form the icon images of the first group (referred to as FIG. 26A).

[0252] Also, the CPU 32 outputs the instruction data D based on the control information to the air-circulation unit 3A of the input device 400. The air-circulation unit 3A executes a changeover control so as to open the valve body 304 or so as to shut off the valve bodies 309, 322 based on the instruction data D in order to select the flow channel 2a of the touch-sensitive variable sheet unit 143. The blower 3b sends the air to the flow channel 2a selected by the flow channel changeover unit 3a1. The piezoelectric unit 315 constituting the blower 3b adjusts an amount of the air. The piezoelectric unit 315 is controlled by the instruction data D inputted from the CPU 32. This control enables the concave and convex touch feeling of the seventeen element bag portions E1 to E17 of the positions corresponding to the icon images of the application #1 to change.

[0253] In this example, the display region of the key K1 of numeral "1" corresponds to the element bag portion E1 shown in FIG. 24, and similarly, the display region of the key K2 of numeral "2" corresponds to the element bag portion E2 shown in FIG. 24. The display region of the key K3 of numeral "3" corresponds to the element bag portion E3 shown in FIG. 24. The display region of the key K4 of numeral "4" corresponds to the element bag portion E4 shown in FIG. 24. The display region of the key K5 of numeral "5" corresponds to the element bag portion E5 shown in FIG. 24. The display region of the key K6 of numeral "6" corresponds to the element bag portion E6

shown in FIG. 24. The display region of the key K7 of numeral "7" corresponds to the element bag portion E7 shown in FIG. 24. The display region of the key K8 of numeral "8" corresponds to the element bag portion E8 shown in FIG. 24. The display region of the key K9 of numeral "9" corresponds to the element bag portion E9 shown in FIG. 18. The display region of the key K10 of numeral "0" corresponds to the element bag portion E10 shown in FIG. 24. The respective display regions enable the concave and convex touch feeling to be given to the operator's finger when the slide operation or the press operation is executed.

[0254] Further, the display region of the key K11 of symbol "*" corresponds to the element bag portion E11 shown in FIG. 24 and the display region of the key K12 of symbol "#" corresponds to the element bag portion E12. The respective display regions enable the concave and convex touch feeling to be given to the operator's finger. Similarly, the display region of the key K13 of determination "O" which forms the cross key corresponds to the element bag portion E13, the display region of the left facing arrow key K14 thereof corresponds to the element bag portion E14 and the display region of the upward facing arrow key K15 thereof corresponds to the element bag portion E15. Further, the display region of the right facing arrow key K16 thereof corresponds to the element bag portion E16 and the display region of the downward facing arrow key K17 thereof corresponds to the element bag portion E17. When the slide operation or the press operation is executed, the respective display regions enable the concave and convex touch feeling to be given to the operator's finger.

[0255] Then, the CPU 32 executes the application #A at step ST24. The application #A is such a processing for inputting the information by operating, for example, the key K1 of numeral "1" to the key K10 of numeral "0", the key K11 of symbol "*", the key K12 of symbol "#" or the like, the key K13 of determination "O" of the cross key, the left facing arrow key K14 thereof, the upward facing arrow key K15 thereof, the right facing arrow key K16 thereof or the downward facing arrow key K17 thereof.

[0256] Thereafter, the process shifts to step ST25 where the CPU 32 judges an end of the application #A. If there is no end-instruction of the application #A, the process returns to the step ST24 where the display unit 29 continues the display of an operation panel image relating to the application #A. If there is the end-instruction of the application #A, the process shifts to step ST26 where the CPU 32 transmits the instruction data D to the air-circulation unit 3A so as to control stopping the piezoelectric unit 315. At this time point, the display of the operation panel image relating to the application #A may be changed to, for example, a menu screen or the like. Thereafter, the process shifts to step ST38.

[0257] If the application execution instruction other than the application #1 is set at the above-mentioned step ST22, the process shifts to step ST27. At the step ST27, the CPU 32 branches the control thereof depending on whether the application execution instruction is an execution instruction of the application #2 or an execution instruction of other application. If the application execution instruction is an execution instruction of the application #2, the process shifts to step ST28 where the CPU 32 reads the control information of the application #2. The CPU 32 controls the display unit 29 so as to change over the display based on the control information.