

in FIG. 21C, the press detection by the input detection unit 45 is continued, but the pressing force F exceeding the judgment threshold has not yet detected. According to the driving example of the piezoelectric unit 315 shown in FIG. 21D, a state is maintained in which the air is supplied to the twenty five element bag portions E1 to E25 which swell still further in order to present the concave and convex touch feeling. According to the reactive force example given to the operator's finger 30a shown in FIG. 21E, the finger 30a touches the protrusion center portion and the operator's finger 30a obtains the reactive force as the concave and convex touch feeling by a fact that the element bag portion E1 swells still further.

[0188] The state-VI shown in FIG. 21A is a case in which the operator's finger 30a is shifted to the protrusion edge portion of the right side from the protrusion center portion of the element bag portion E1 of the touch-sensitive variable sheet unit 103. In this case, according to the position detection example shown in FIG. 21B, the position detection signal S1 showing the position $x3$ of the protrusion edge portion of the right side of the element bag portion E1 is outputted from the input detection unit 45. Also, according to the press detection example shown in FIG. 21C, the press detection by the input detection unit 45 is continued, but the pressing force F exceeding the judgment threshold has not yet detected.

[0189] According to the driving example of the piezoelectric unit 315 shown in FIG. 21D, the state in which the air is supplied to the twenty five element bag portions E1 to E25 which swell still further returns to the state of the normal time in which the air is supplied in order to present the concave and convex touch feeling. In this embodiment, the operator's finger 30a will return to the protrusion center portion from the protrusion edge portion of the right side of the element bag portion E1 of the touch-sensitive variable sheet unit 103. According to the reactive force example given to the operator's finger 30a shown in FIG. 21E, the finger 30a touches the protrusion edge portion of the right side from the protrusion center portion and the operator's finger 30a obtains the reactive force which is weaker than the state V shown in FIG. 21A as the concave and convex touch feeling by a fact that the element bag portion E1 swells still further.

[0190] The state-VII shown in FIG. 22A is a case in which the operator's finger 30a returns to the protrusion center portion of the element bag portion E1 of the touch-sensitive variable sheet unit 103. In this case, according to the position detection example shown in FIG. 22B, the position detection signal S1 showing the position $x2$ of the protrusion center portion of the element bag portion E1 is outputted from the input detection unit 45. Also, according to the press detection example shown in FIG. 22C, the press detection by the input detection unit 45 is continued but the pressing force F exceeding the judgment threshold has not yet detected.

[0191] According to the driving example of the piezoelectric unit 315 shown in FIG. 22D, a state is maintained in which the air is supplied to the twenty five element bag portions E1 to E25 which swell still further in order to present the concave and convex touch feeling. According to the reactive force example given to the operator's finger 30a shown in FIG. 22E, the finger 30a touches the protrusion center portion and obtains the reactive force thereof as the concave and convex touch feeling by a fact that the element bag portion E1 swells still further.

[0192] The state-VIII shown in FIG. 22A is a case in which the operator's finger 30a starts the press operation at the

protrusion center portion of the element bag portion E1 of the touch-sensitive variable sheet unit 103. In this case, according to the position detection example shown in FIG. 22B, the operator's finger 30a stays at the protrusion center portion of the element bag portion E1, so that the position detection signal S1 is not outputted from the input detection unit 45. Also, according to the press detection example shown in FIG. 22C, the press detection by the input detection unit 45 is continued but the pressing force F exceeding the judgment threshold has not yet detected.

[0193] According to the driving example of the piezoelectric unit 315 shown in FIG. 22D, it is a state in which the air is supplied to the twenty five element bag portions E1 to E25 which start swelling still further in order to overcome the pressing force F by the press operation of the operator's finger 30a. According to the reactive force example given to the operator's finger 30a shown in FIG. 22E, the finger 30a presses the protrusion center portion toward the Z-direction and obtains the reactive force as the concave and convex touch feeling by a fact that the element bag portion E1 swells still further.

[0194] The state-IX shown in FIG. 21A is a case just before the operator's finger 30a completes pressing the protrusion center portion of the element bag portion E1 of the touch-sensitive variable sheet unit 103. In this case, according to the position detection example shown in FIG. 22B, the operator's finger 30a stays at the protrusion center portion of the element bag portion E1, so that the position detection signal S1 is not outputted from the input detection unit 45. Also, according to the press detection example shown in FIG. 22C, the input detection unit 45 detects the press detection signal S2 showing the pressing force F exceeding the judgment threshold.

[0195] According to the driving example of the piezoelectric unit 315 shown in FIG. 22D, a state is maintained in which the air is supplied to the twenty five element bag portions E1 to E25 which swell still further in order to overcome the pressing force F by the press operation of the operator's finger 30a. According to the reactive force example given to the operator's finger 30a shown in FIG. 22E, the finger 30a presses the protrusion center portion toward the Z-direction and obtains the reactive force as the concave and convex touch feeling by a fact that the element bag portion E1 swells further.

[0196] The state-X shown in FIG. 22A is a case in which the pressing force F is gradually decreased after the operator's finger 30a completes pressing the protrusion center portion of the element bag portion E1 of the touch-sensitive variable sheet unit 103. In this case, according to the position detection example shown in FIG. 22B, the operator's finger 30a stays at the protrusion center portion of the element bag portion E1, so that the position detection signal S1 is not outputted from the input detection unit 45. Also, according to the press detection example shown in FIG. 22C, the input detection unit 45 detects the press detection signal S2 showing the pressing force F which is less than the judgment threshold and is decreasing gradually.

[0197] According to the driving example of the piezoelectric unit 315 shown in FIG. 22D, a state is continued in which the air is supplied to the twenty five element bag portions E1 to E25 which swell still further in order to overcome the pressing force F by the press operation of the operator's finger 30a. According to the reactive force example given to the operator's finger 30a shown in FIG. 22E, the finger 30a presses the protrusion center portion little by little in the