

FIG. 1

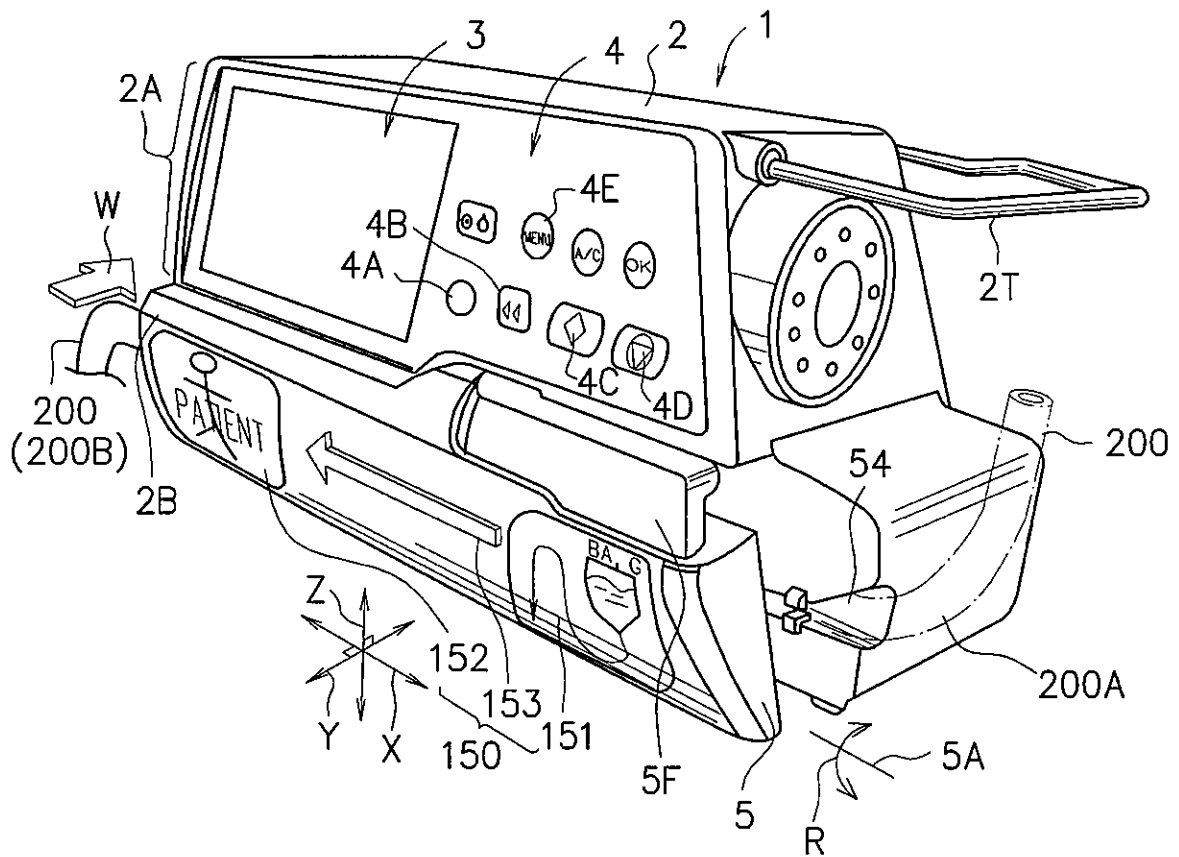
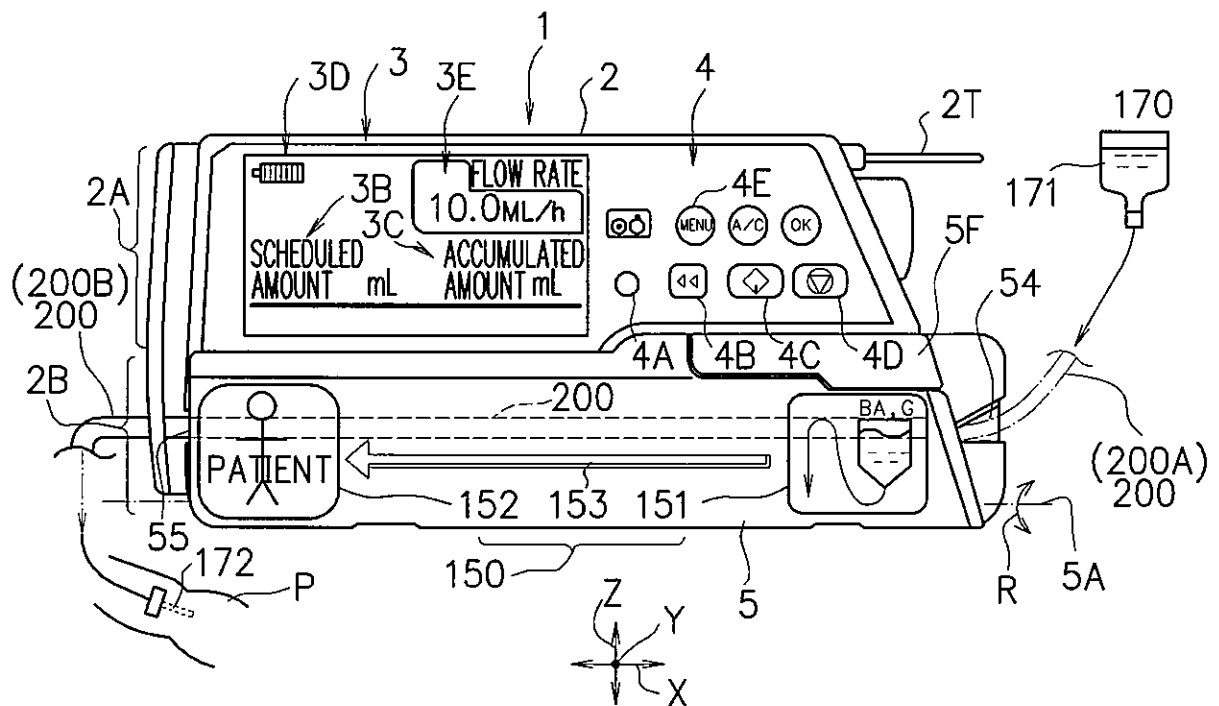


FIG. 2



F I G. 4

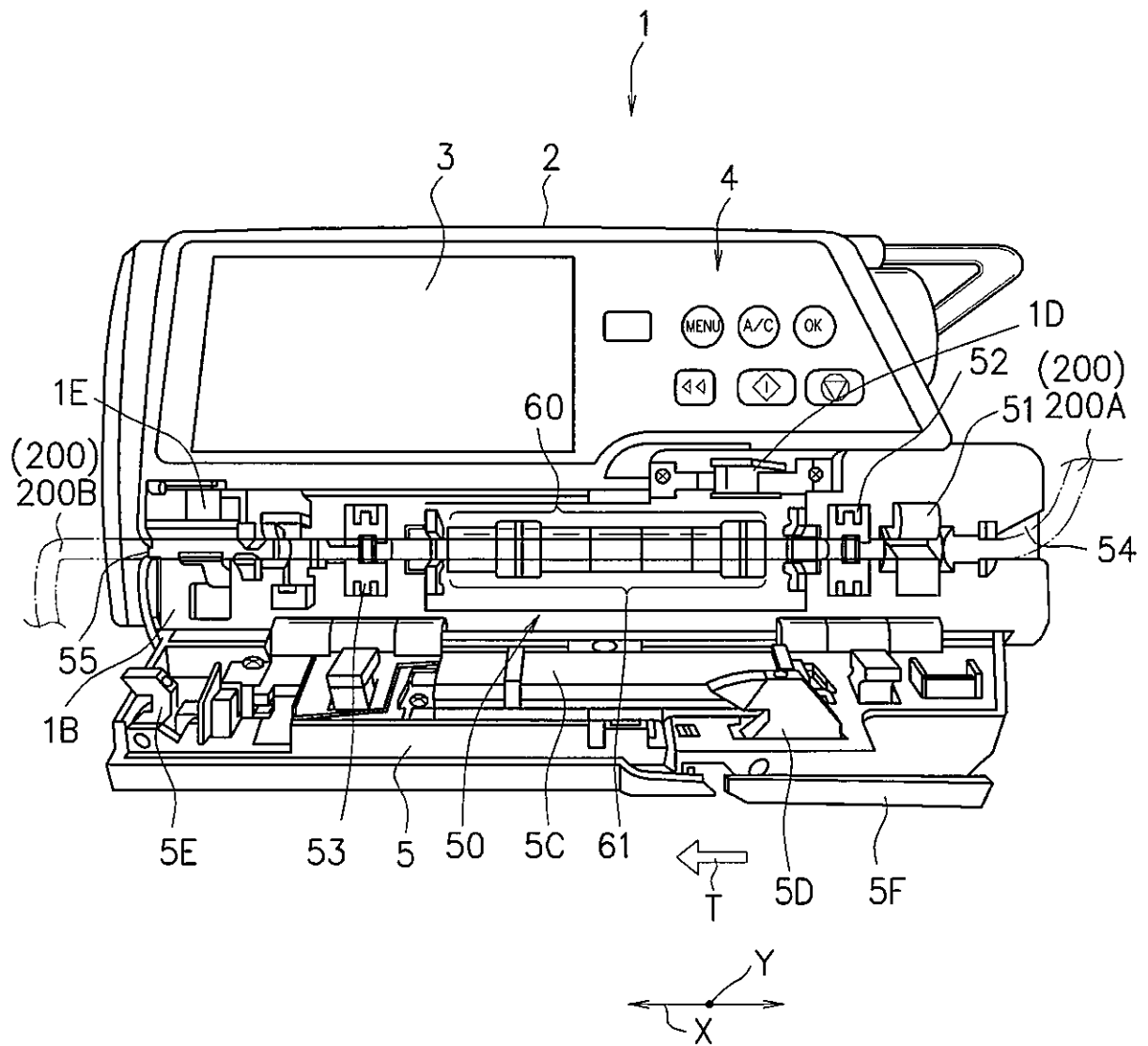


FIG. 5

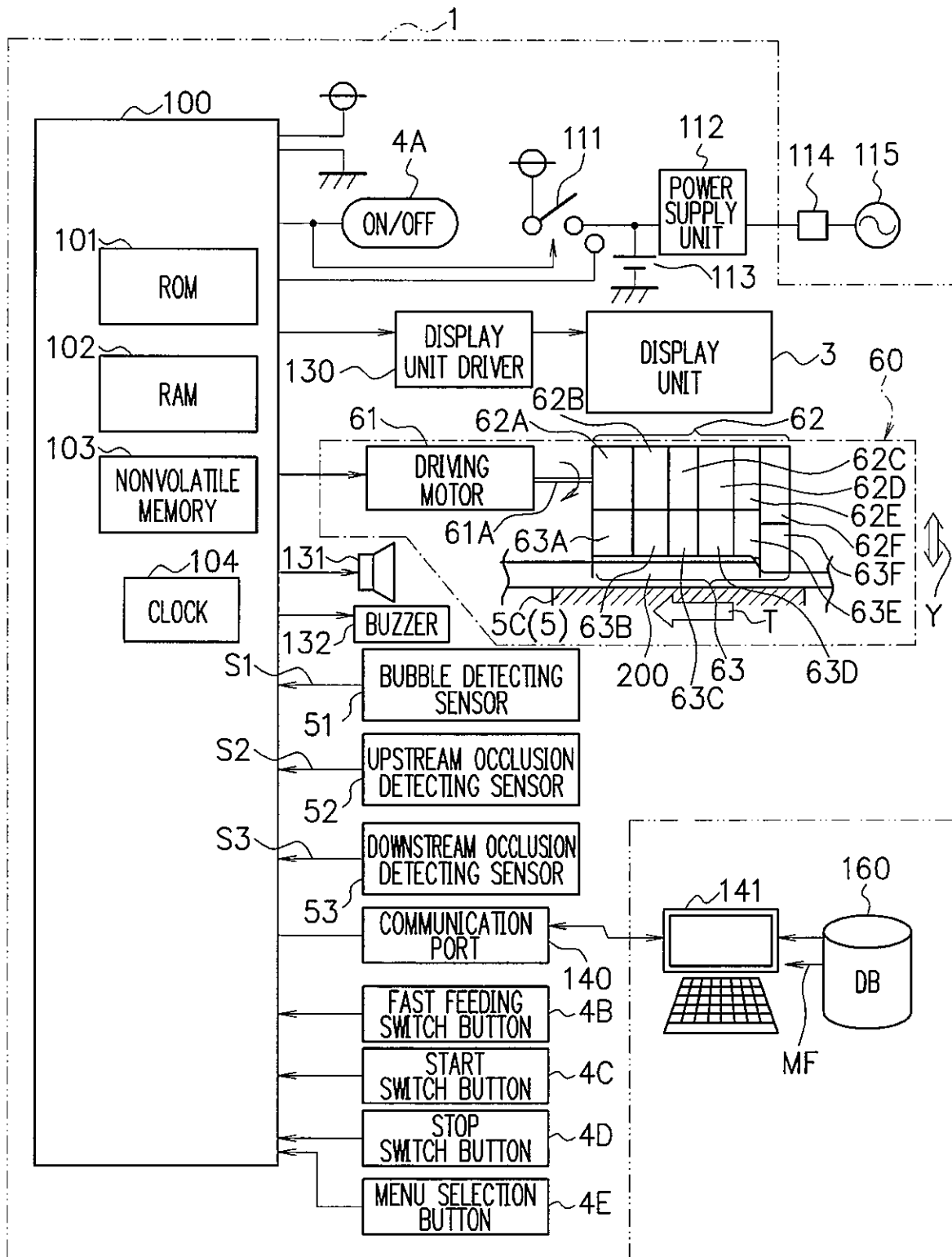


FIG. 6

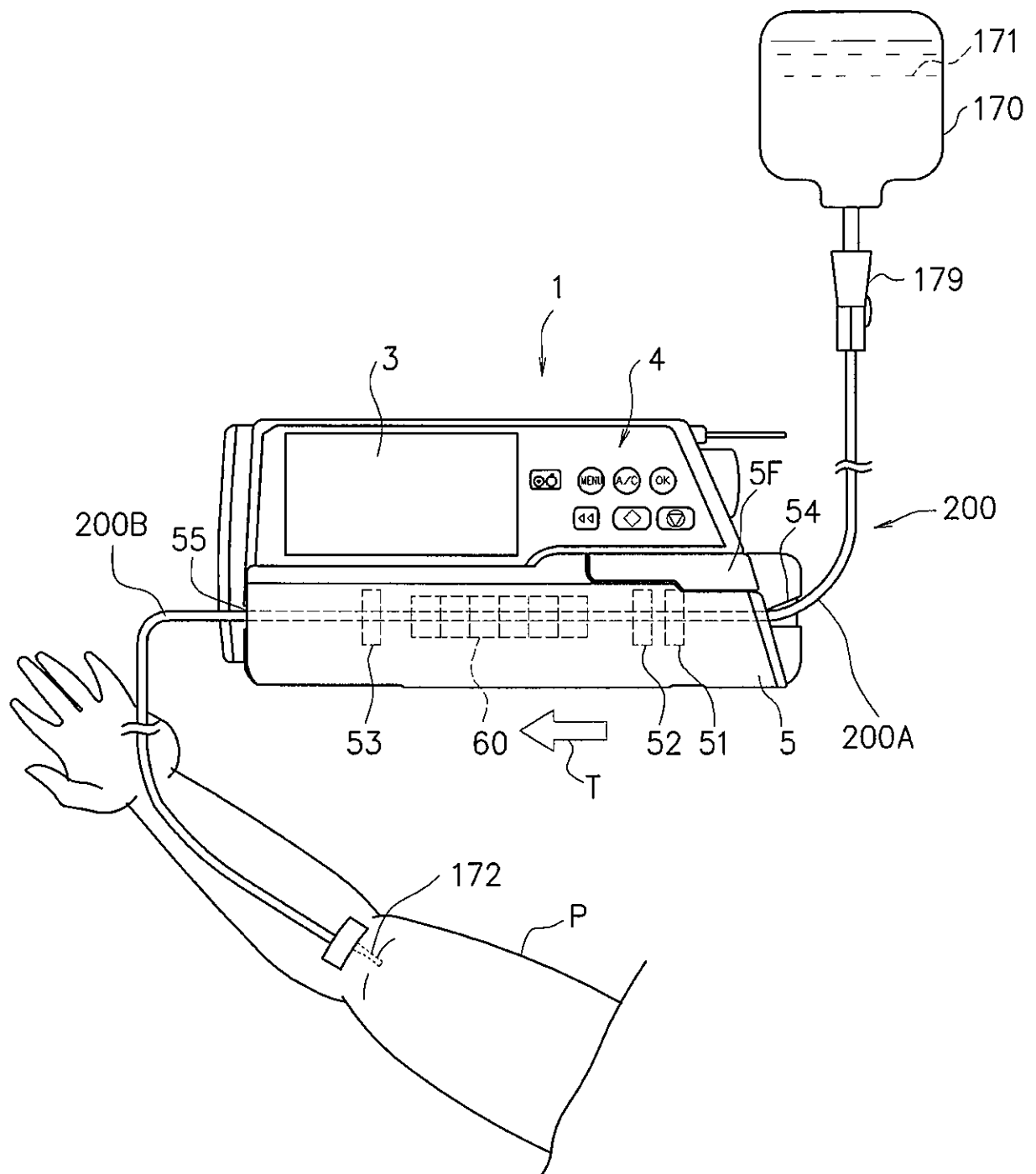


FIG. 7

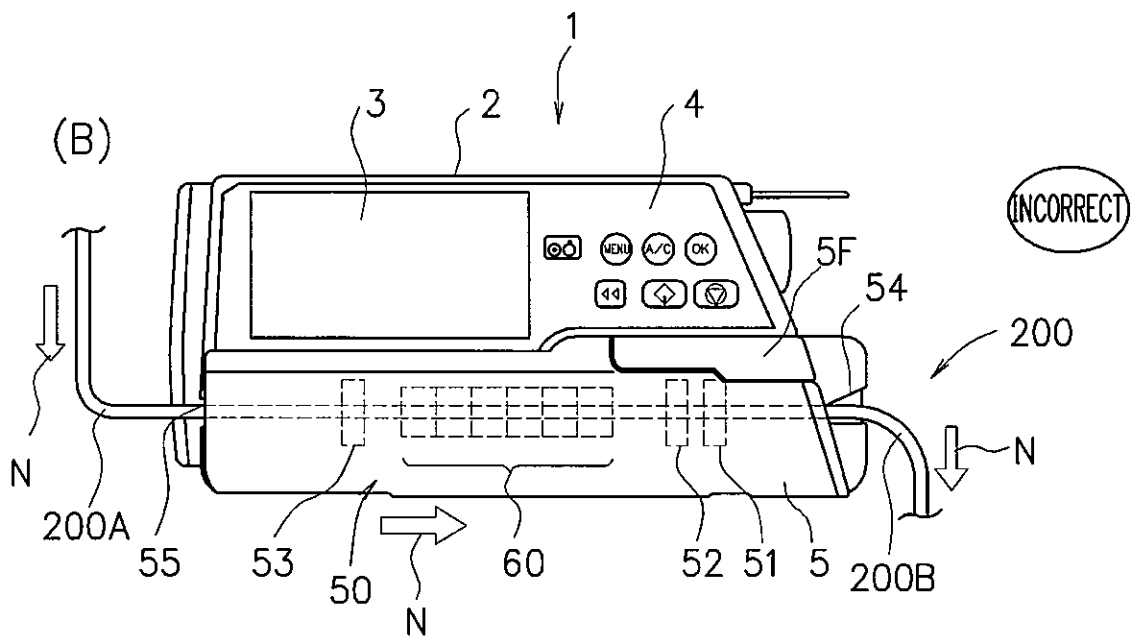
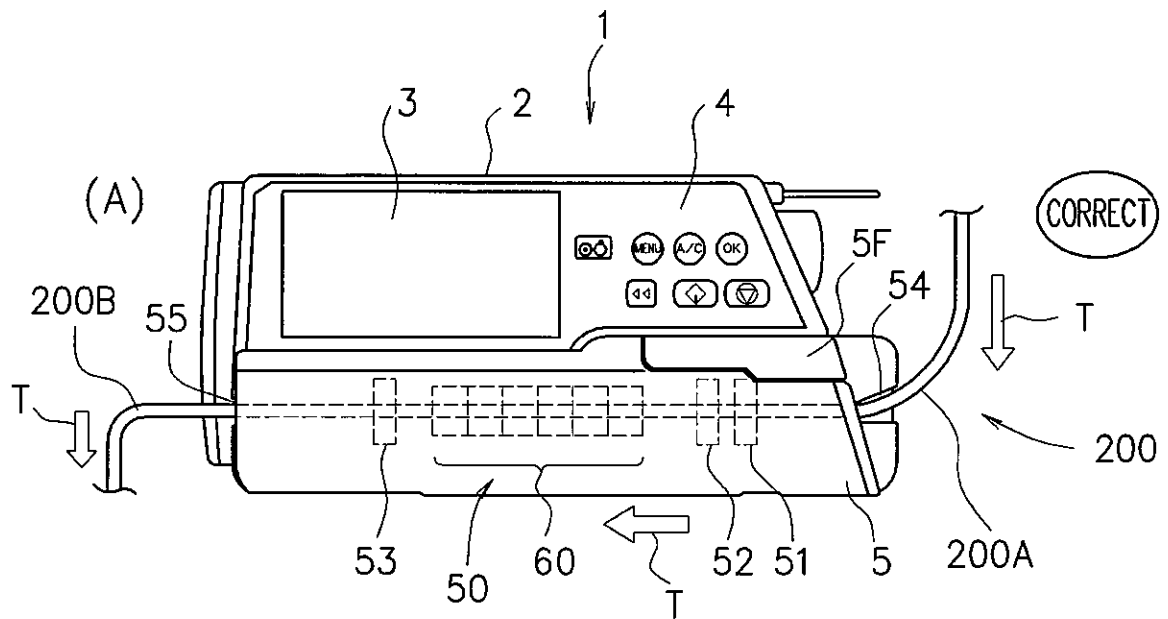
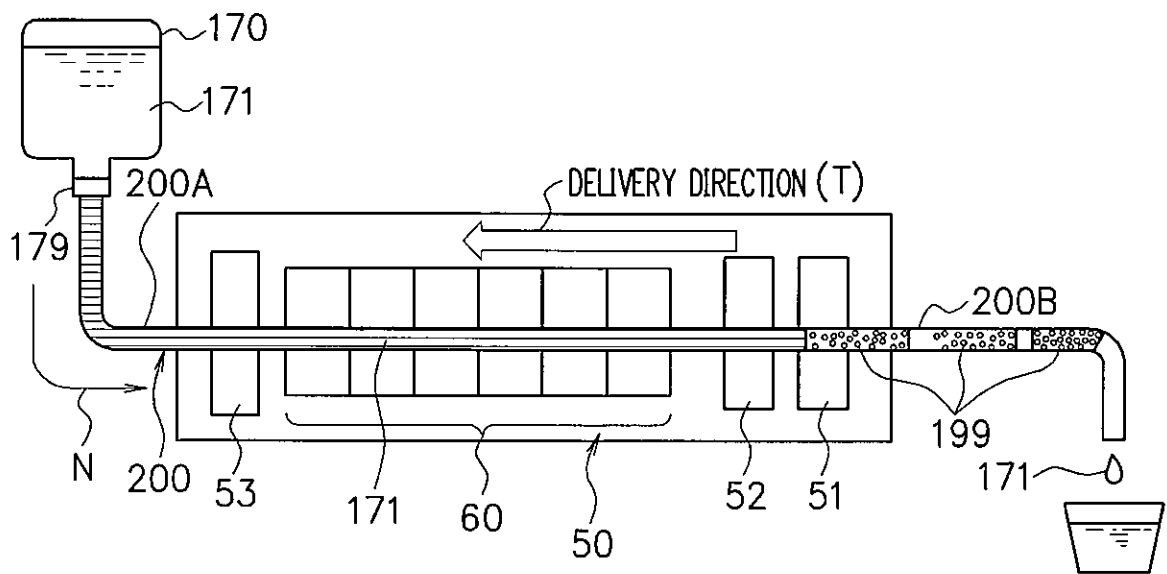
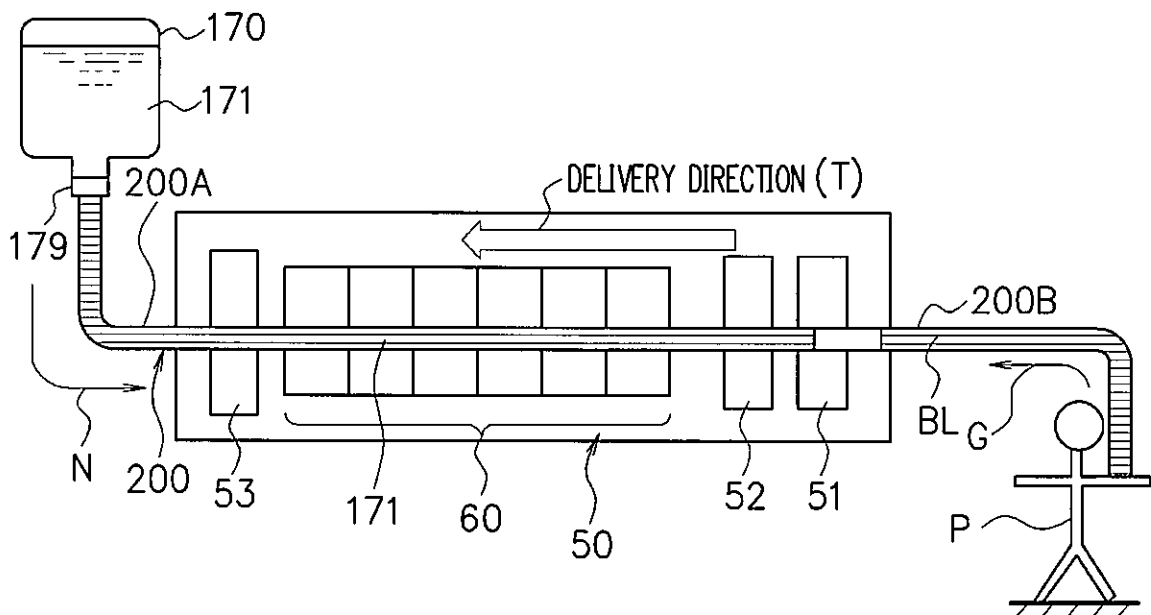


FIG. 8

(A)



(B)



F I G. 9

SETTING ALONG CORRECT DIRECTION (T DIRECTION)

53

OCCLUSION DETECTING 52

(A)

OCCLUSION DETECTING STATUS \ OCCLUSION DETECTING SENSOR	UPSTREAM OCCLUSION DETECTING SENSOR	DOWNSTREAM OCCLUSION DETECTING SENSOR
UPSTREAM OCCLUSION DETECTING (CASE 1)	TUBE INTERNAL PRESSURE HAS DECREASED	NO CHANGE (EXCEPT FOR VERY SMALL CHANGE) OR TUBE INTERNAL PRESSURE HAS SLIGHTLY DECREASED
DOWNSTREAM OCCLUSION DETECTING (CASE 2)	NO CHANGE (EXCEPT FOR VERY SMALL CHANGE)	TUBE INTERNAL PRESSURE HAS INCREASED
NORMAL CASE (CASE 3)	NO CHANGE (EXCEPT FOR VERY SMALL CHANGE)	NO CHANGE (EXCEPT FOR VERY SMALL CHANGE)

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SETTING ALONG INCORRECT DIRECTION (N DIRECTION)

53

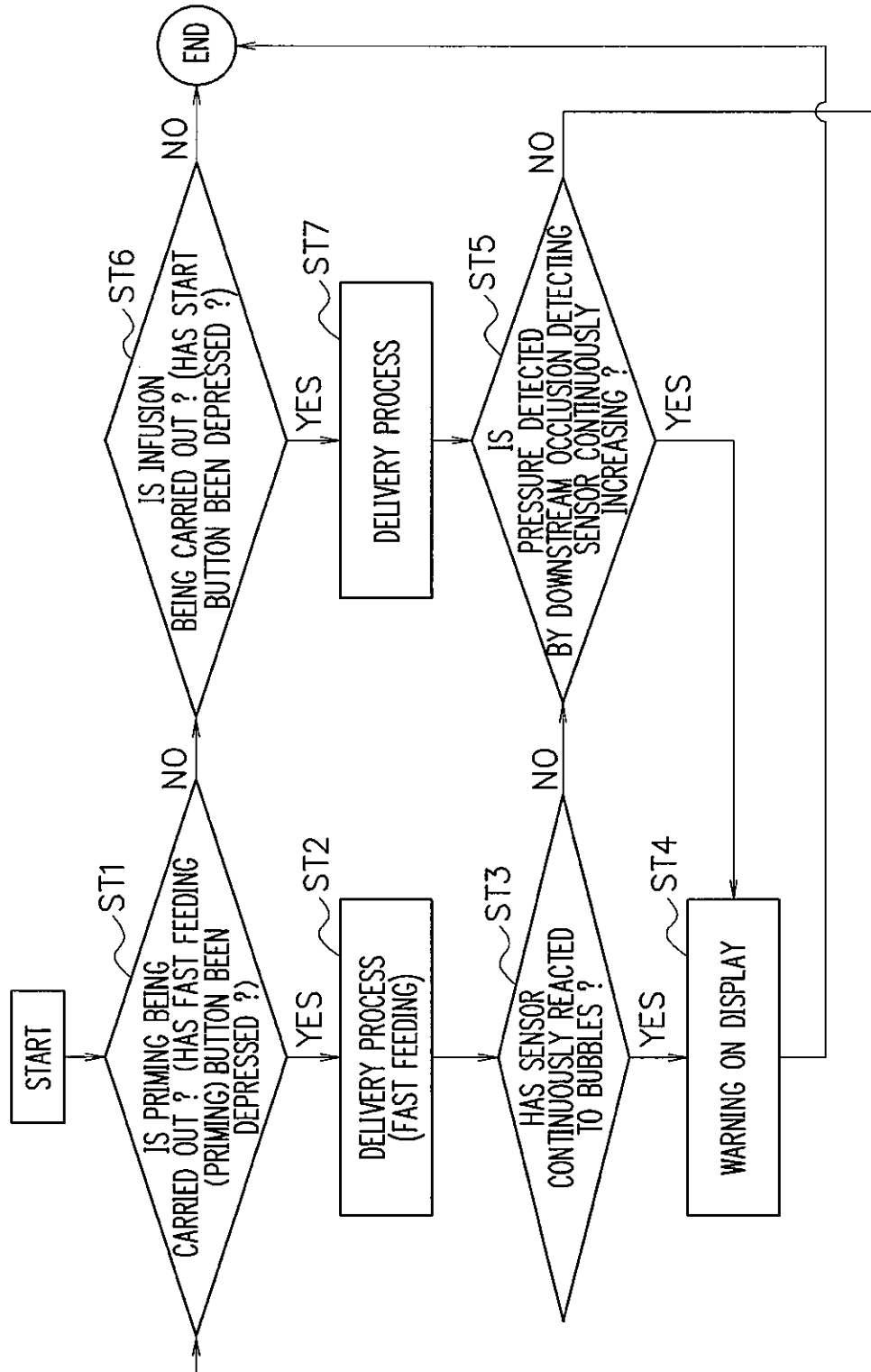
52

(B)

OCCLUSION DETECTING STATUS \ OCCLUSION DETECTING SENSOR	UPSTREAM OCCLUSION DETECTING SENSOR	DOWNSTREAM OCCLUSION DETECTING SENSOR
UPSTREAM OCCLUSION DETECTING (CASE 4)	NO CHANGE (EXCEPT FOR VERY SMALL CHANGE)	TUBE INTERNAL PRESSURE HAS INCREASED
DOWNSTREAM OCCLUSION DETECTING (CASE 5)	TUBE INTERNAL PRESSURE HAS DECREASED	TUBE INTERNAL PRESSURE HAS SLIGHTLY INCREASED
NORMAL CASE (CASE 6)	NO CHANGE (EXCEPT FOR VERY SMALL CHANGE)	TUBE INTERNAL PRESSURE HAS INCREASED

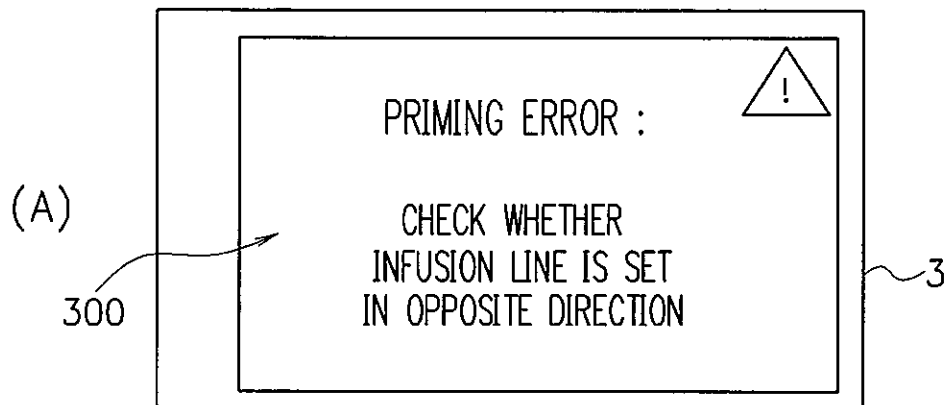
189

F I G. 10

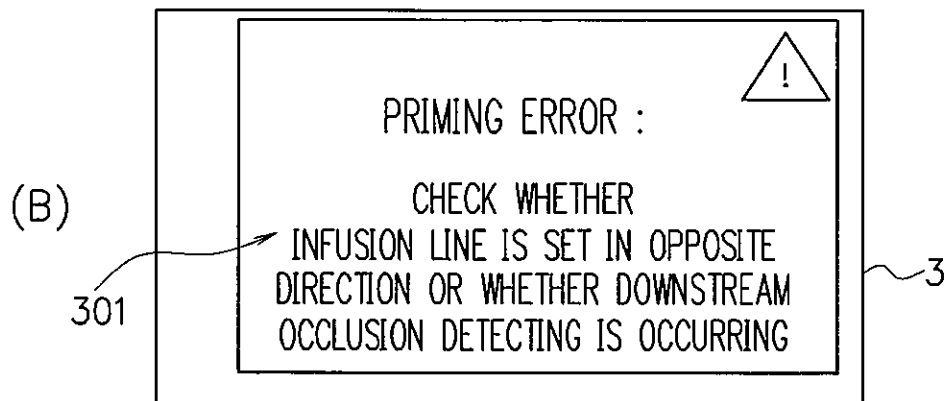


F I G. 11

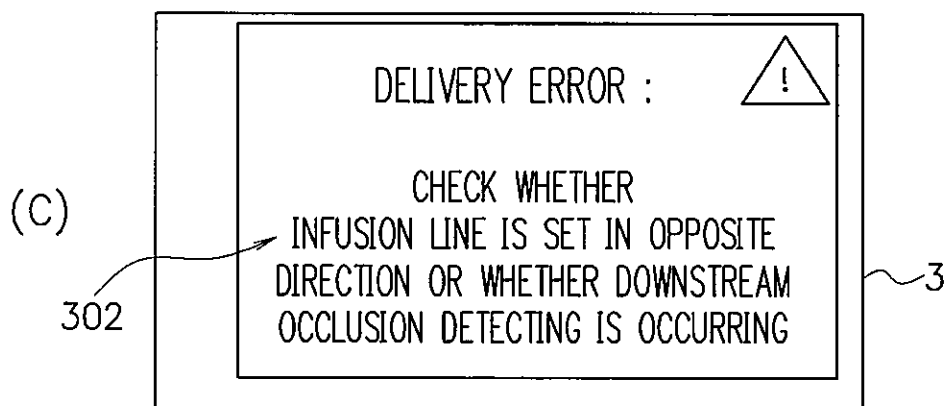
IN PRIMING MODE, BUBBLE DETECTING SENSOR
HAS CONTINUOUSLY REACTED



IN PRIMING MODE, DOWNSTREAM OCCLUSION DETECTING SENSOR
HAS CONTINUOUSLY REACTED



DURING NORMAL DELIVERY, DOWNSTREAM OCCLUSION DETECTING SENSOR
HAS CONTINUOUSLY REACTED



F I G. 12

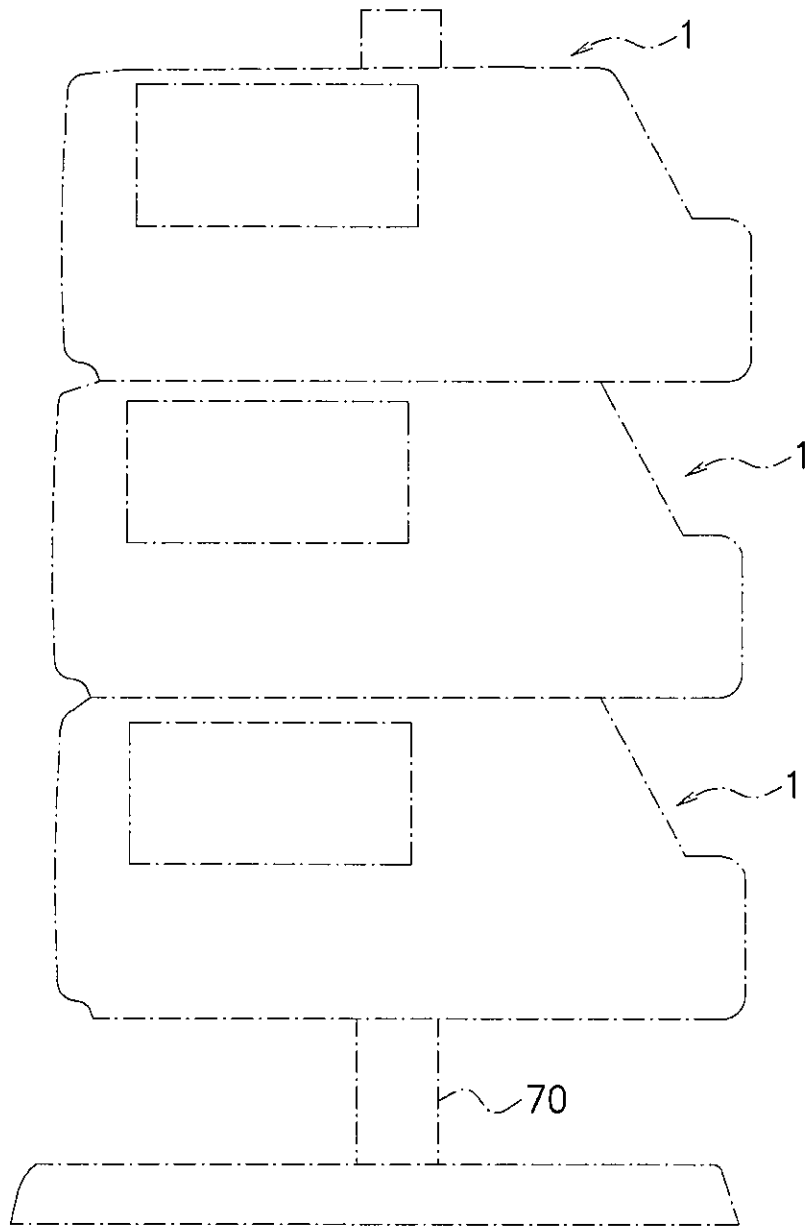


FIG. 13

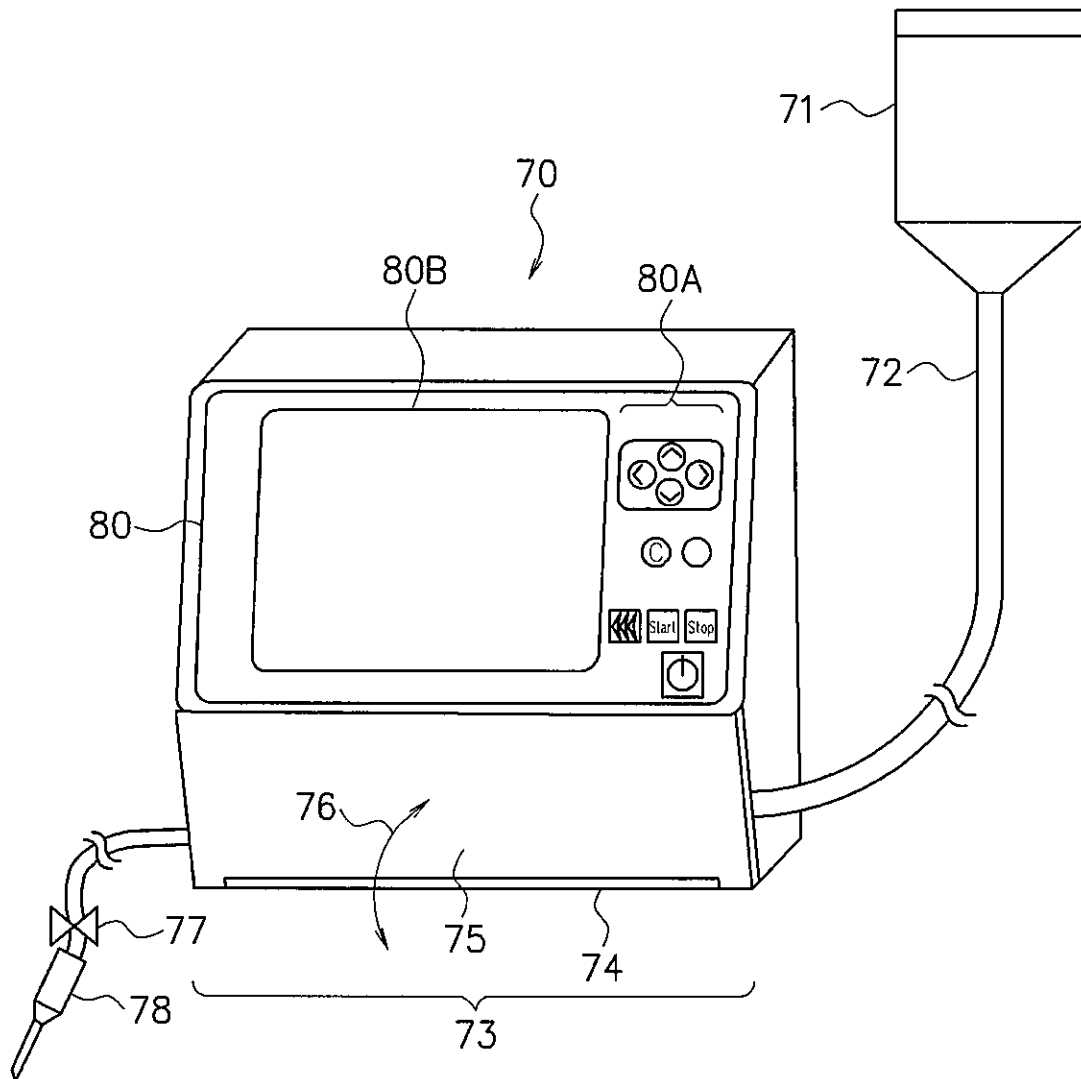


FIG. 14

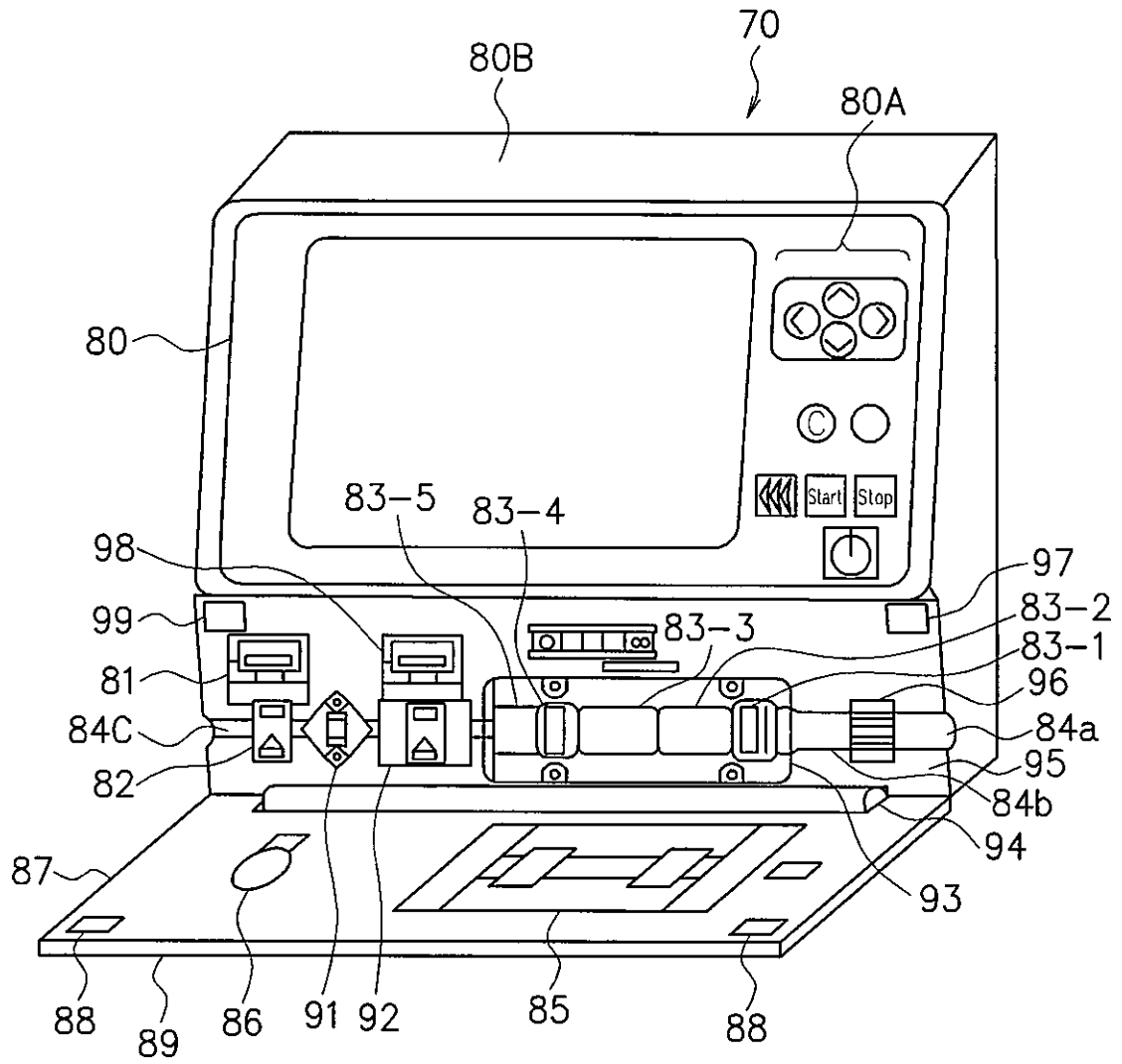
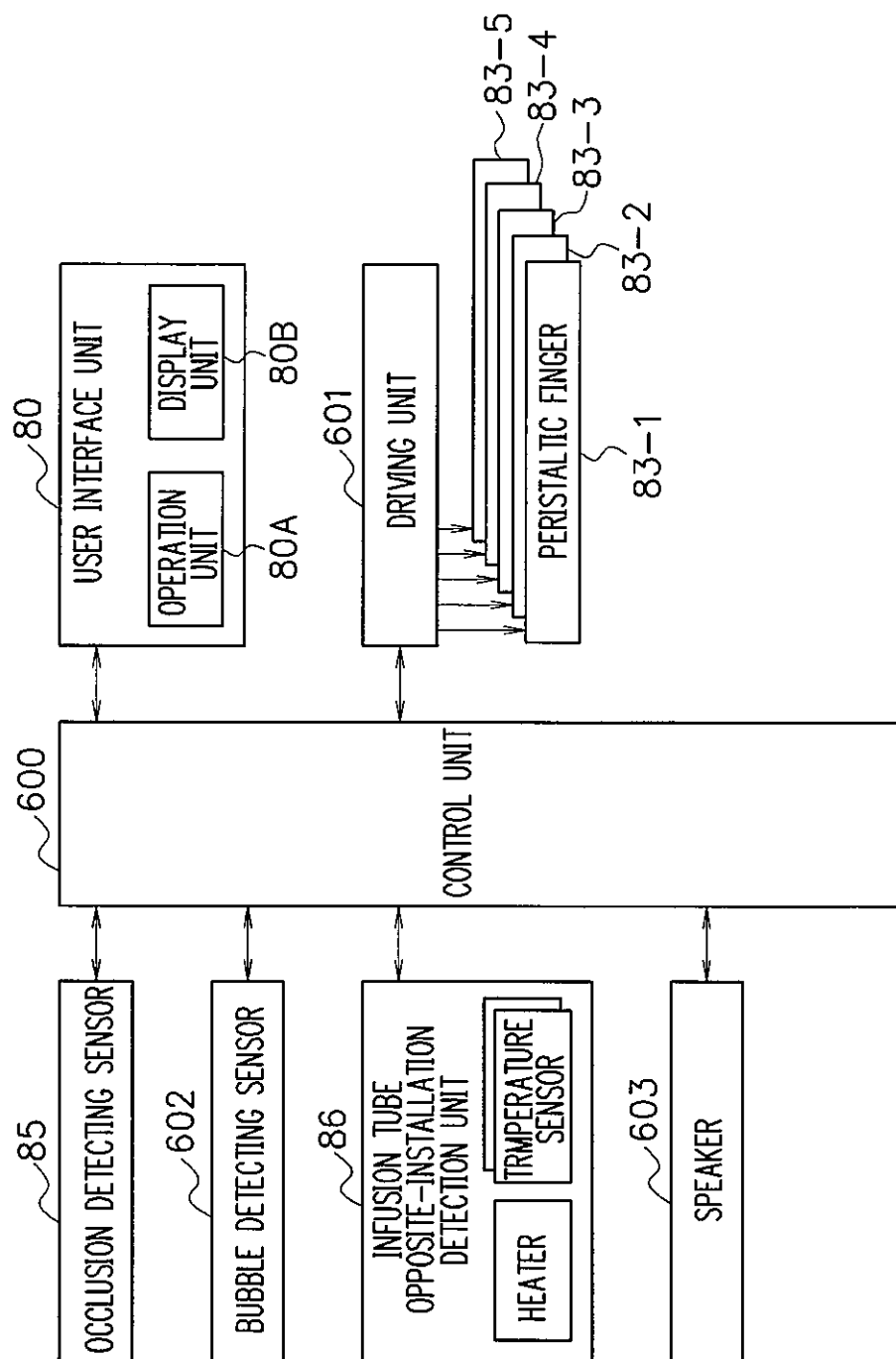
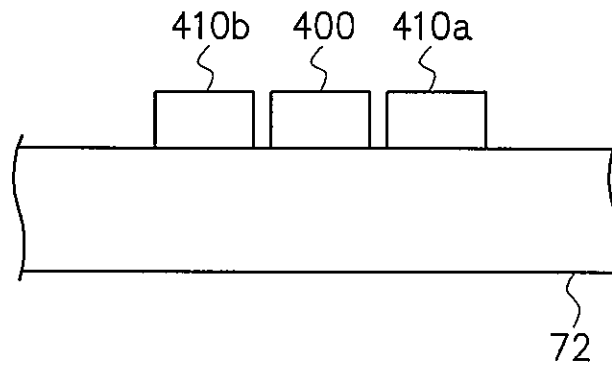


FIG. 15

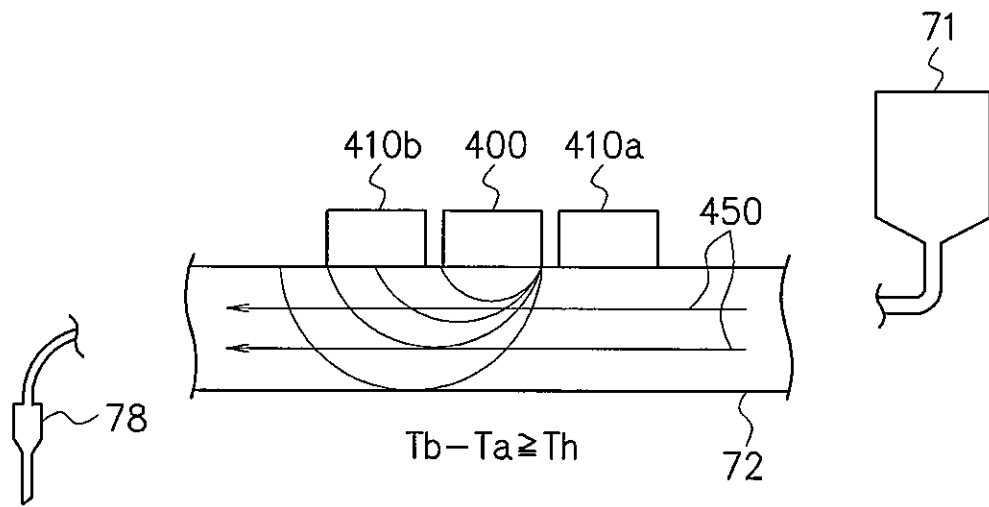


F I G. 16

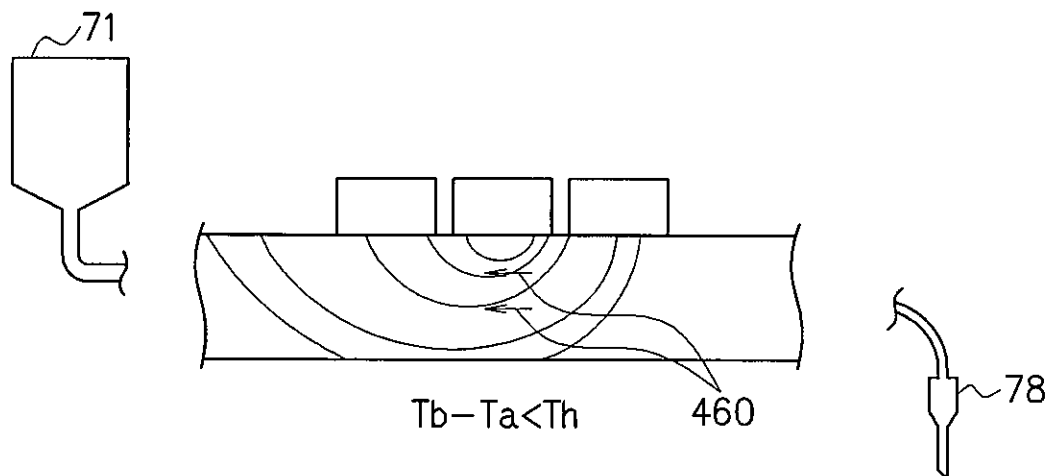
(a)



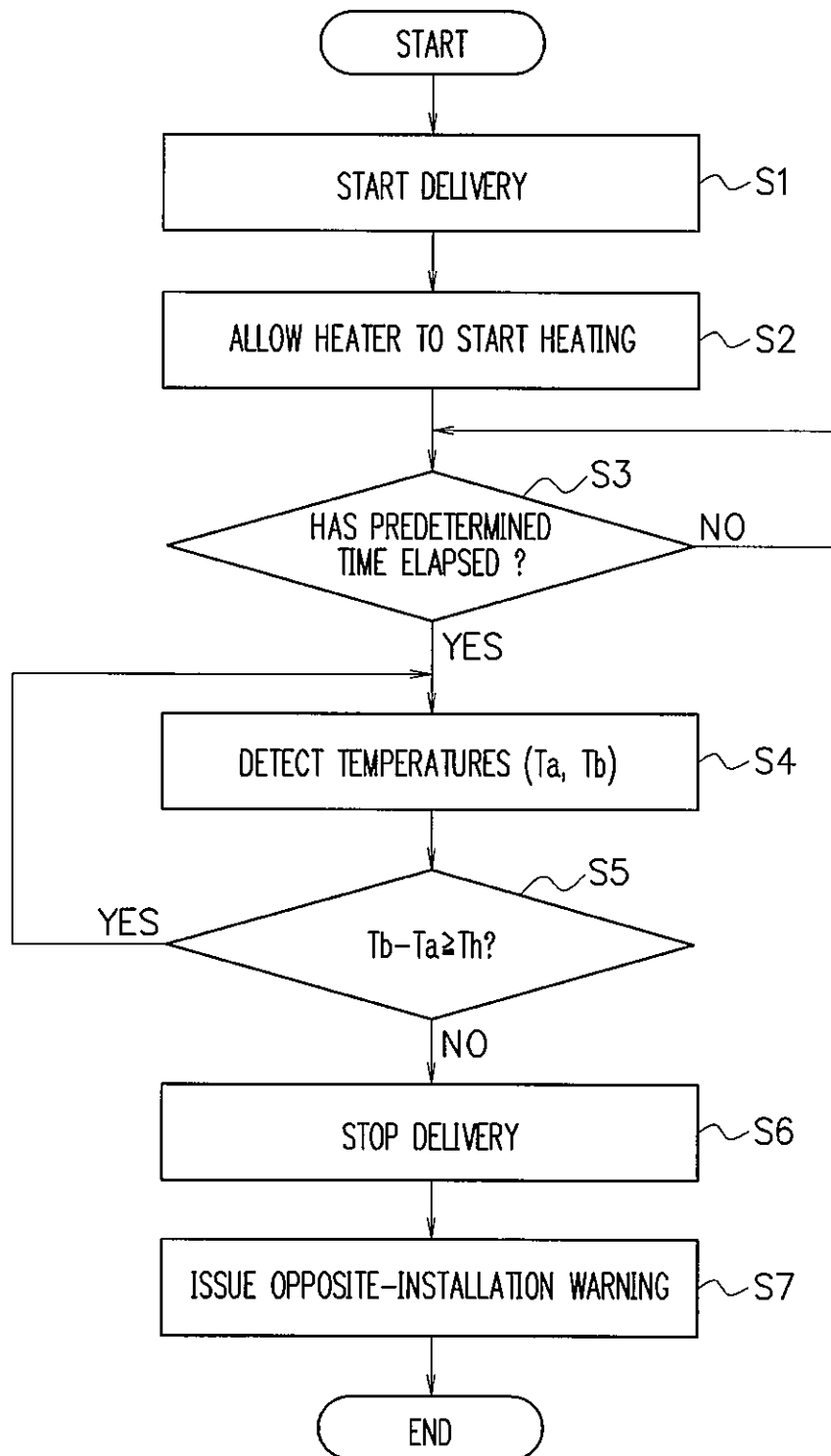
(b)



(c)

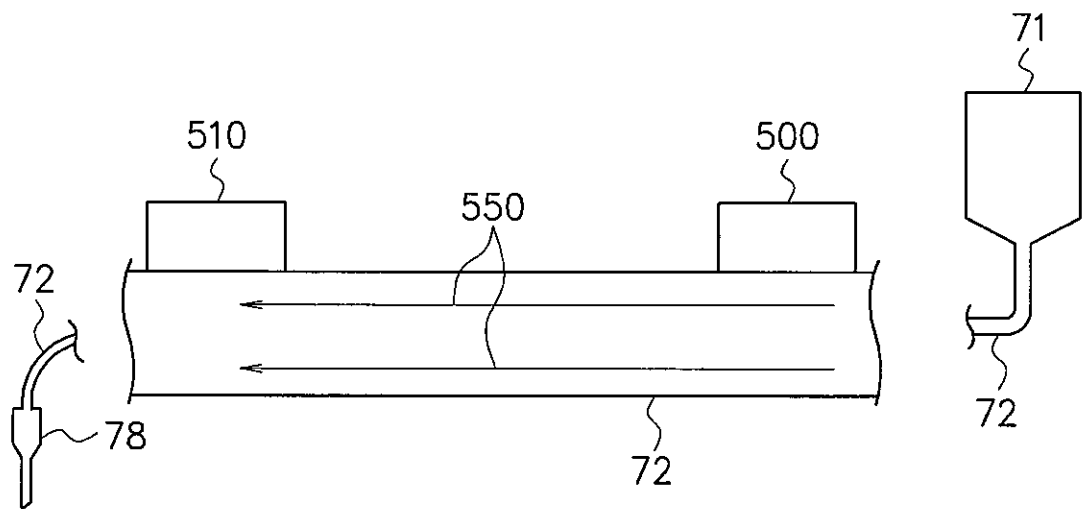


F I G. 17

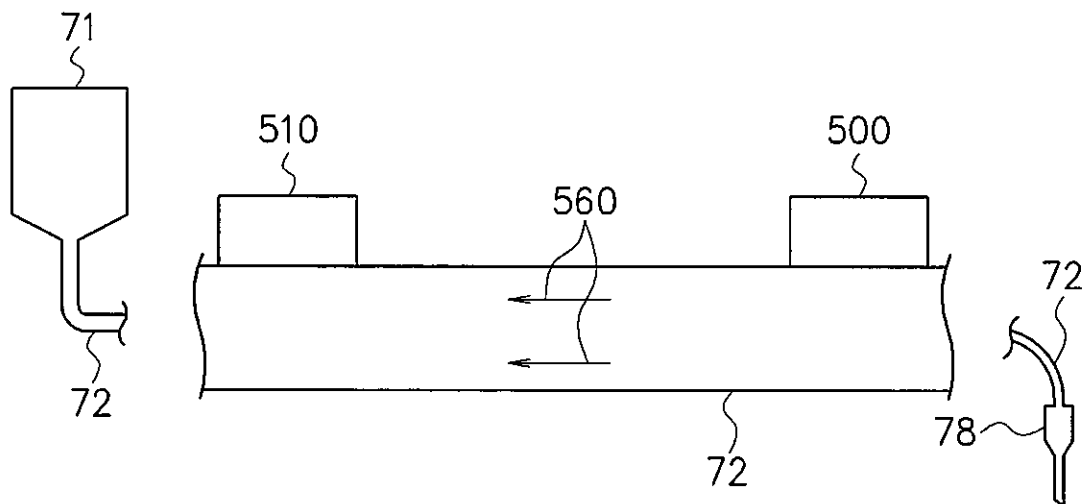


F I G. 18

(a)



(b)



F I G. 19

