Fig. 1

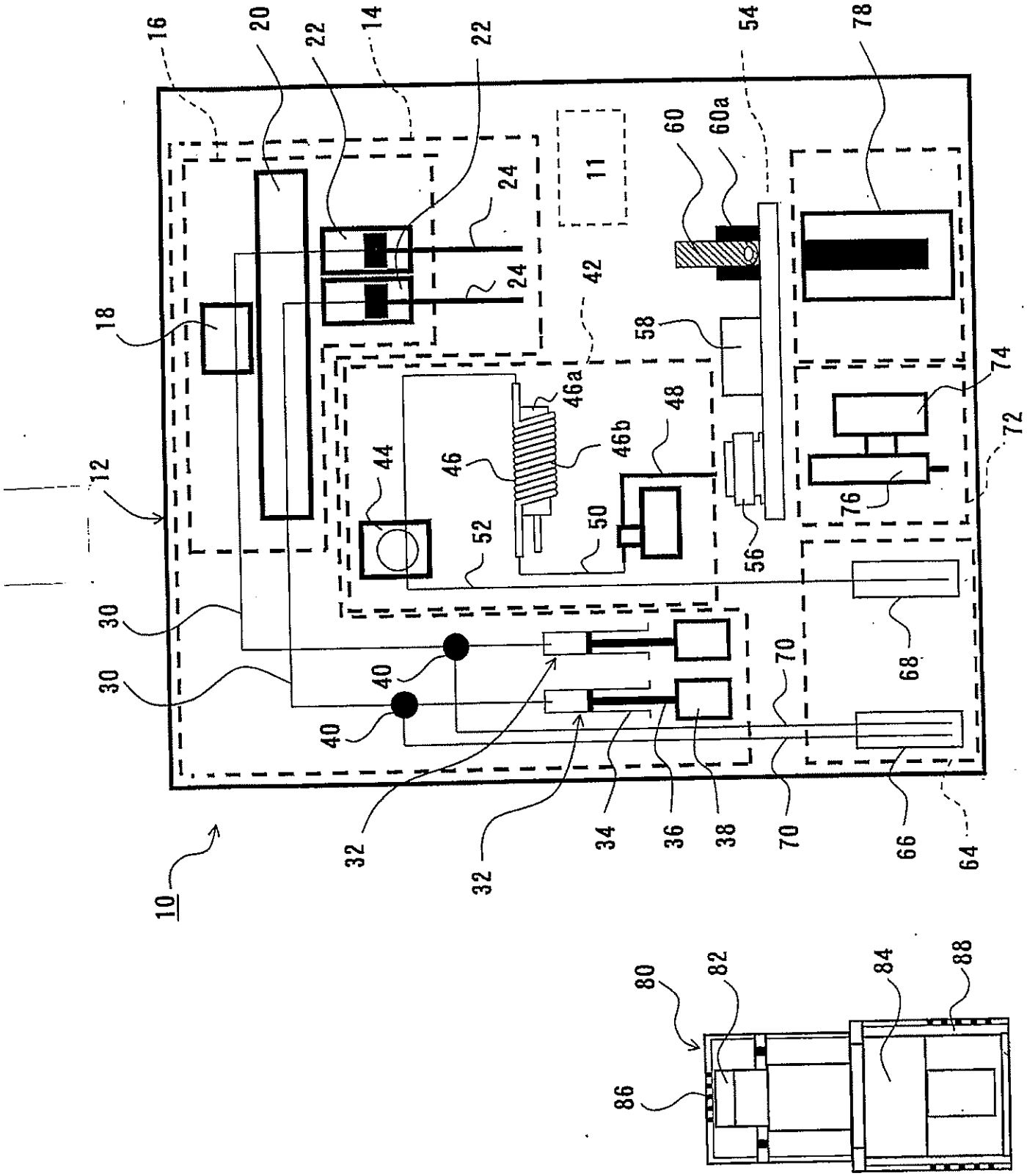

16
20
22
14
22
54
78
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60a
11
24
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42
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74
46a
48
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12
44
46
46b
76
50
52
56
30
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32
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84
88
86

Fig. 2

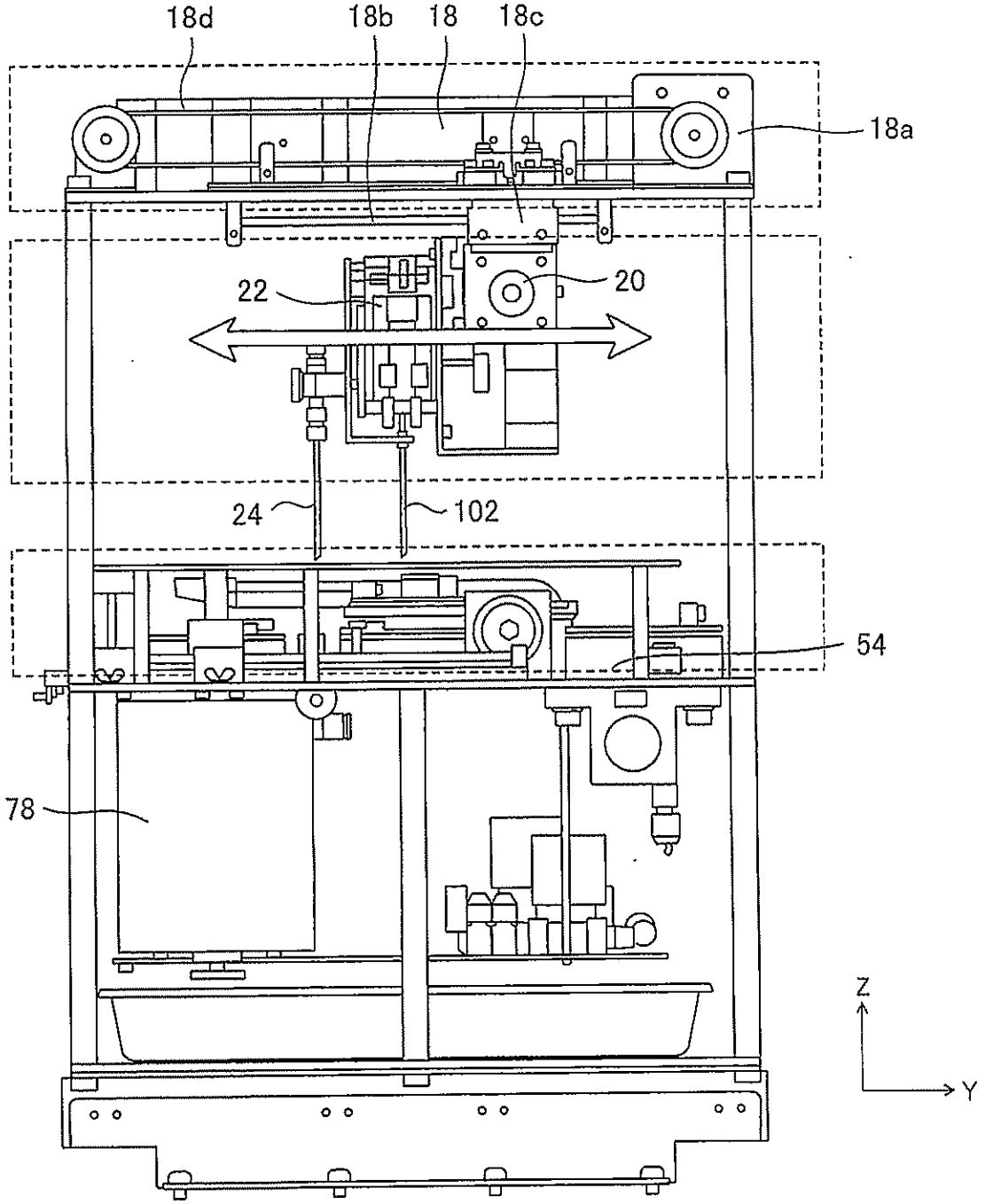


Fig. 3-A

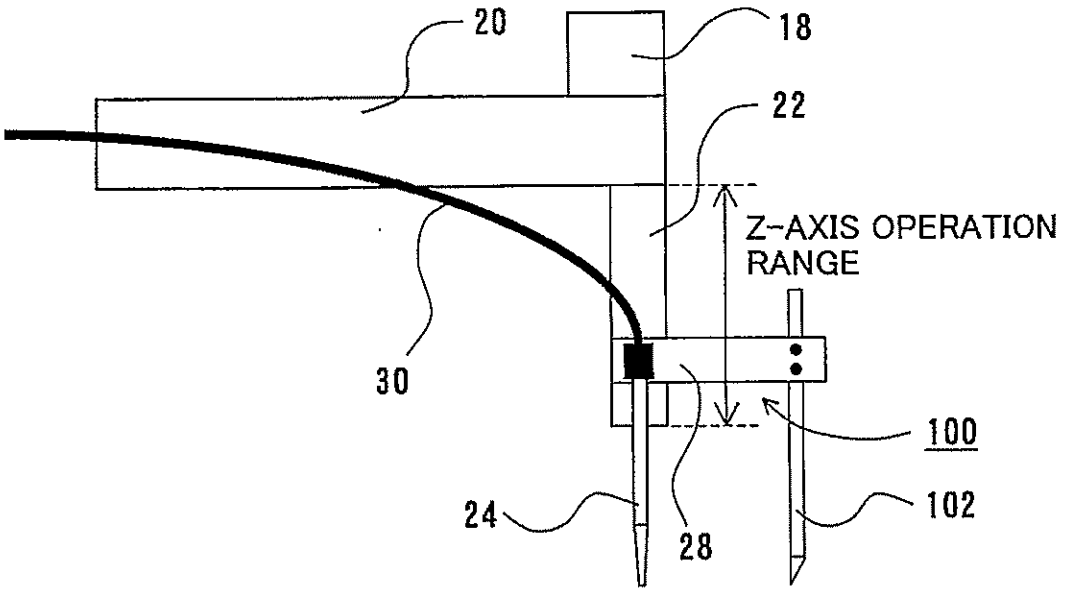

20
18
22
Z-AXIS OPERATION RANGE
30
100
24
28
102

Fig. 3-B

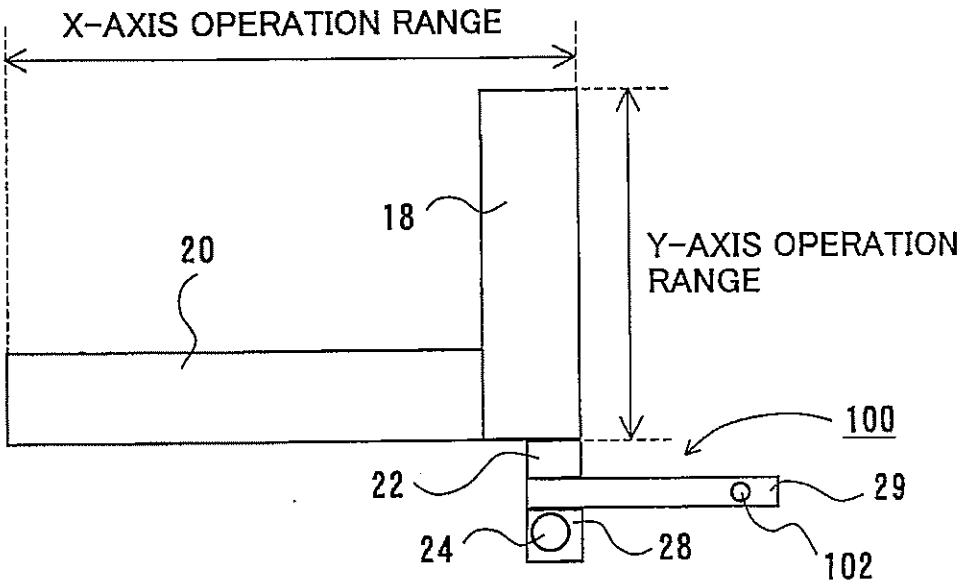

X-AXIS OPERATION RANGE
18
20
Y-AXIS OPERATION RANGE
100
22
29
24
28
102

Fig. 4

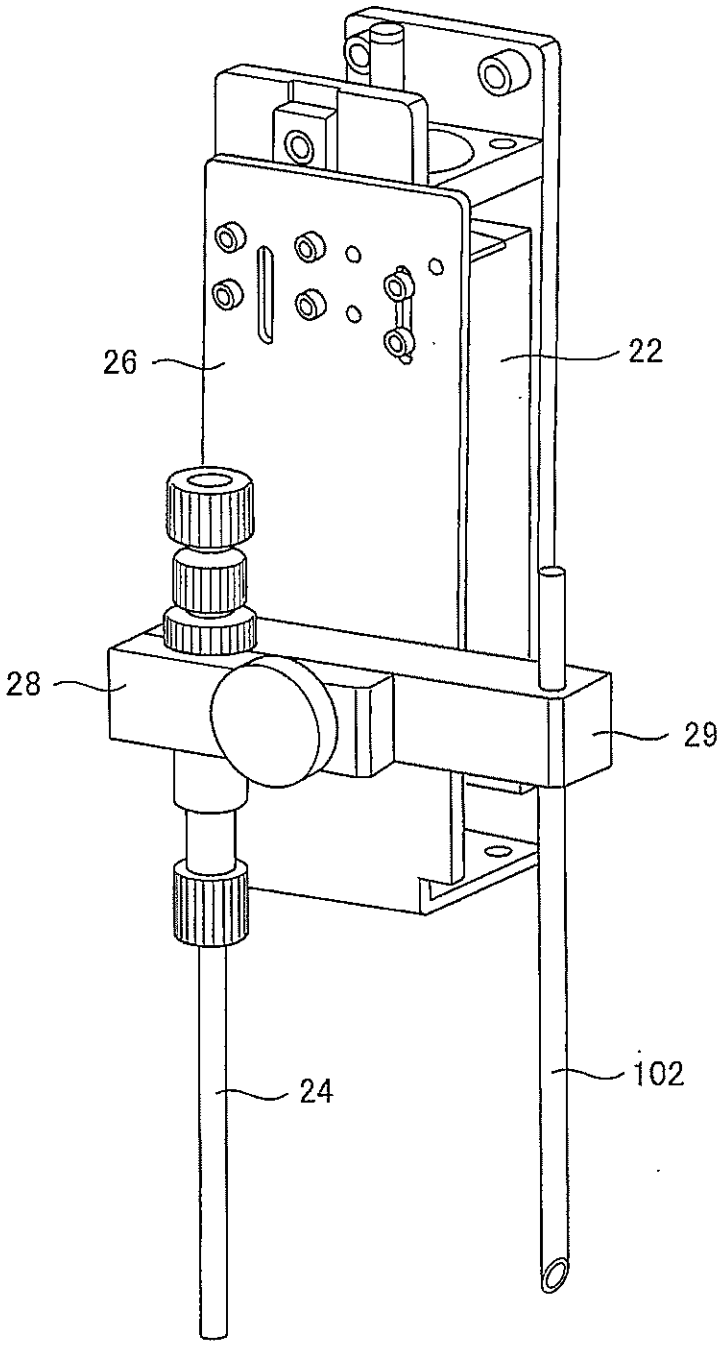


Fig. 5-A

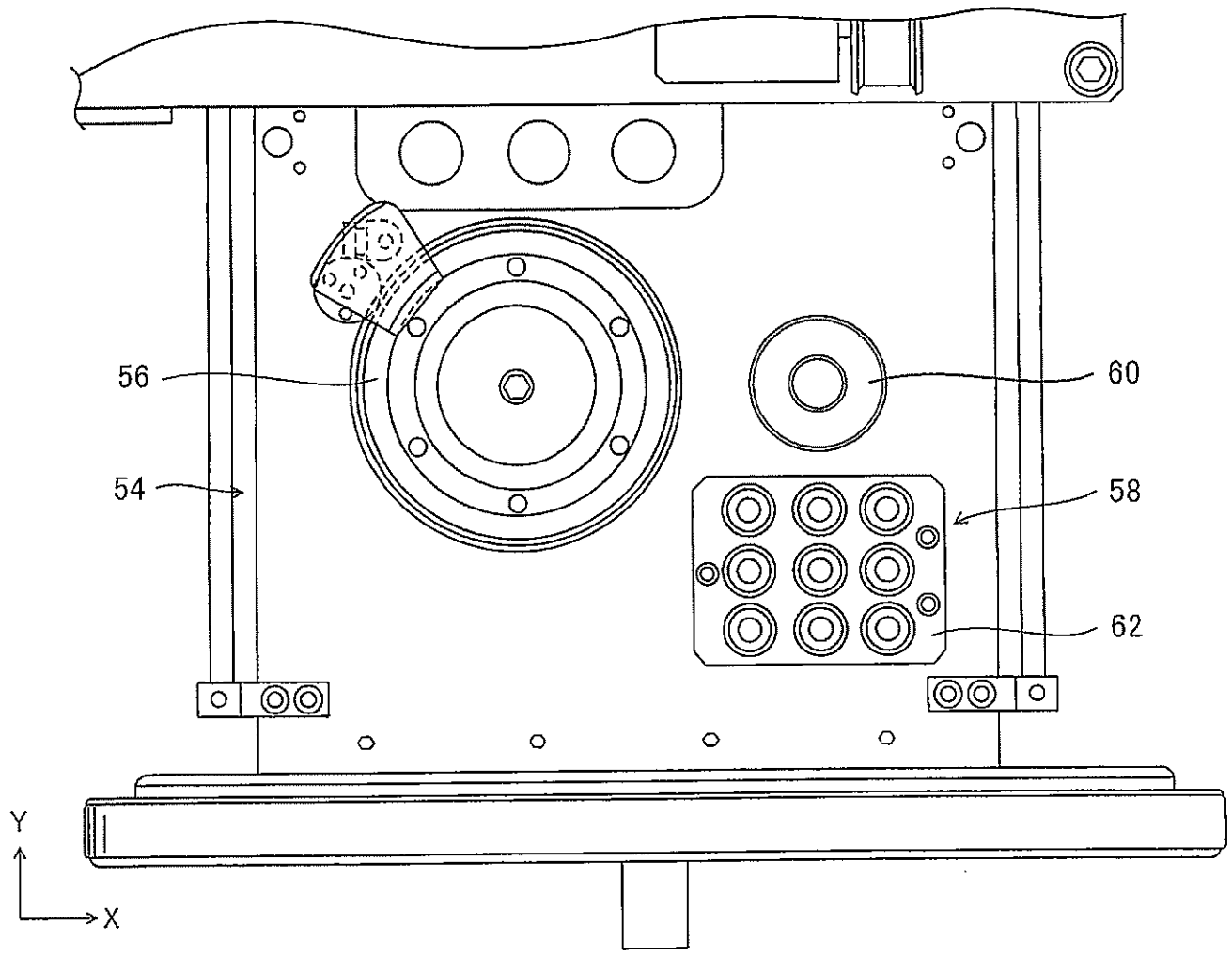


Fig. 5-B

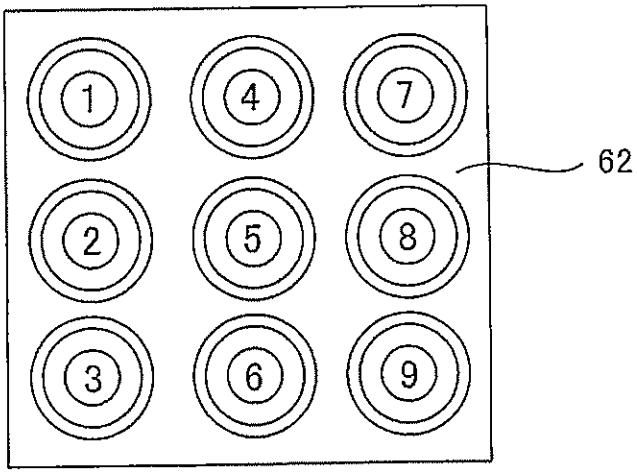


Fig. 6

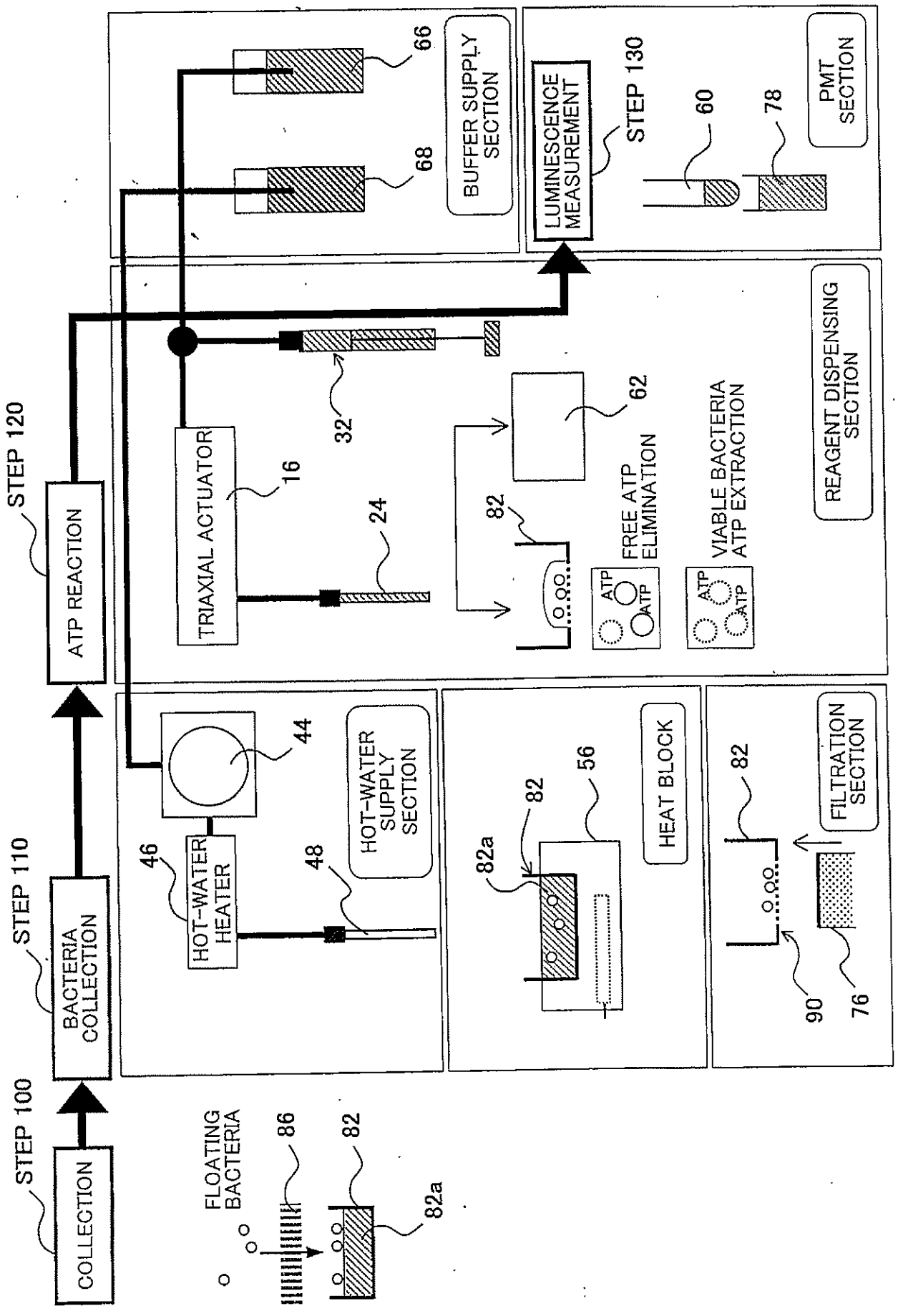

STEP 100
COLLECTION
STEP 110
BACTERIA COLLECTION
STEP 120
ATP REACTION
STEP 130
LUMINESCENCE MEASUREMENT
FLOATING BACTERIA
86
82
82a
TRIAXIAL ACTUATOR
16
24
32
66
68
BUFFER SUPPLY SECTION
60
78
PMT SECTION
62
FREE ATP ELIMINATION
VIABLE BACTERIA ATP EXTRACTION
ATP
REAGENT DISPENSING SECTION
HOT-WATER HEATER
46
44
48
HOT-WATER SUPPLY SECTION
56
HEAT BLOCK
90
76
FILTRATION SECTION

Fig. 7

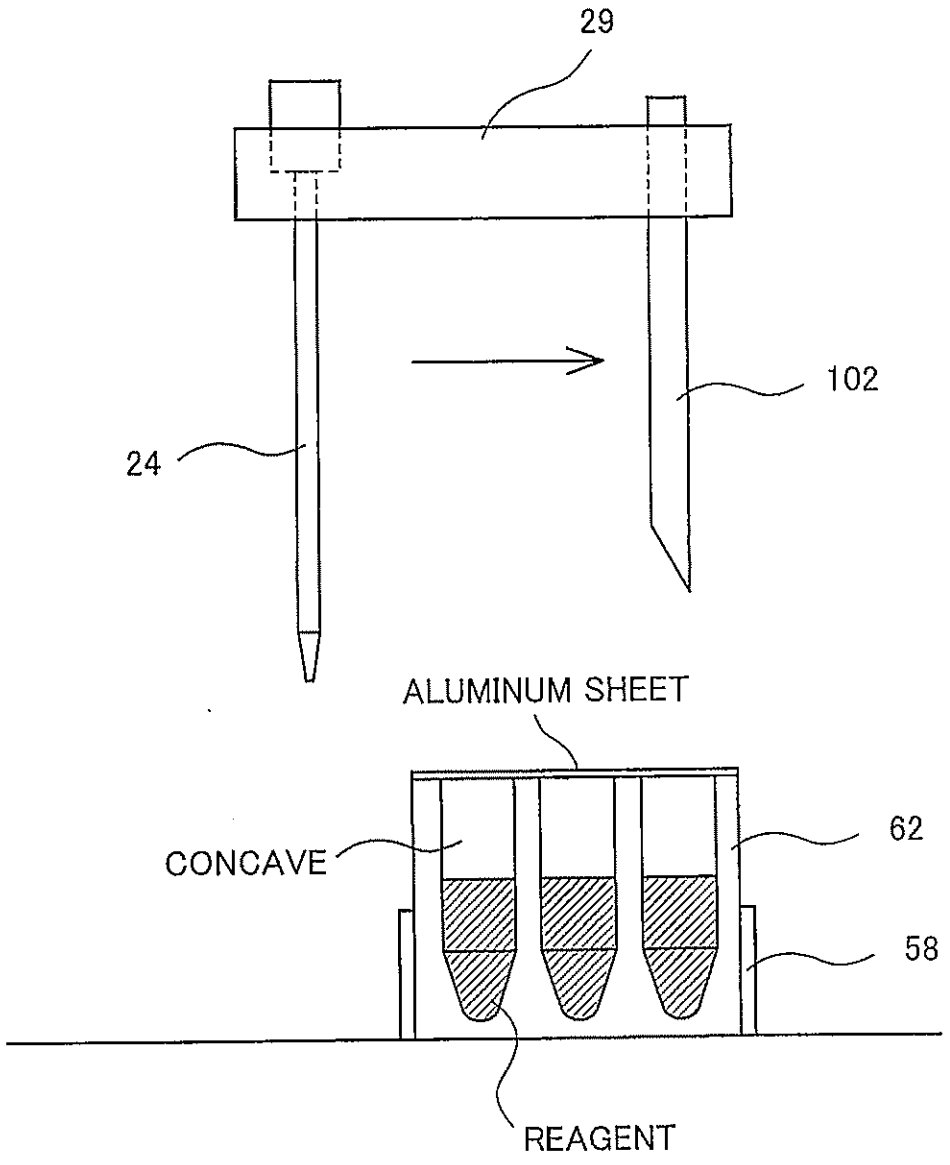


Fig. 8

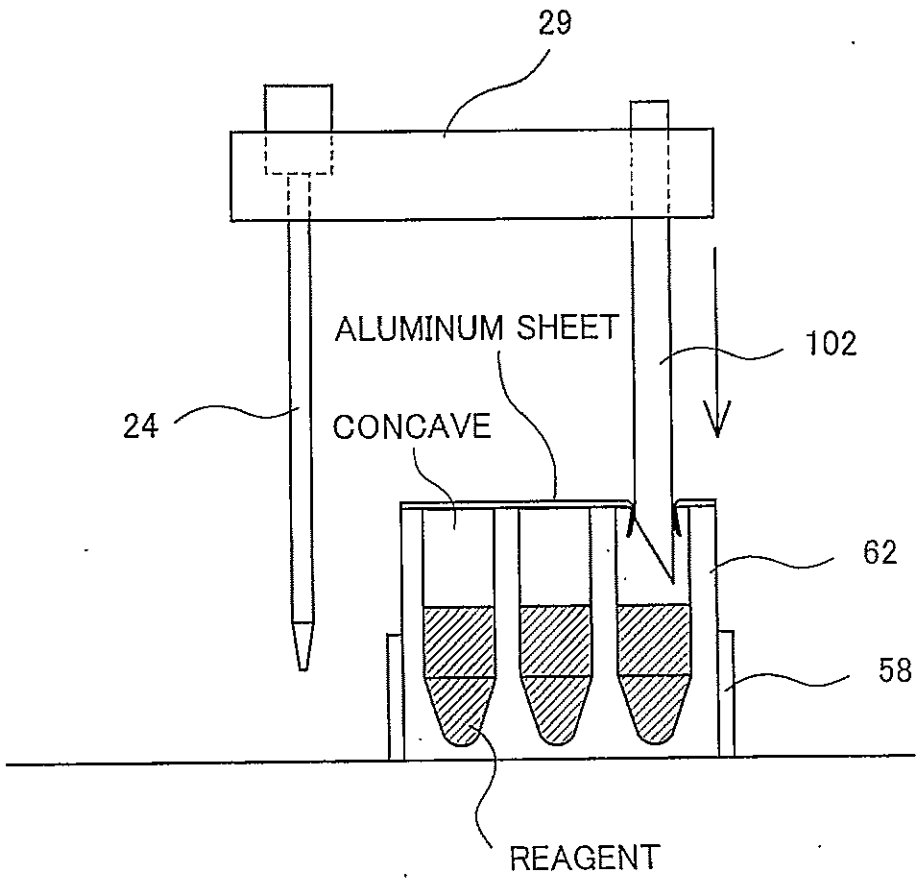


Fig. 9

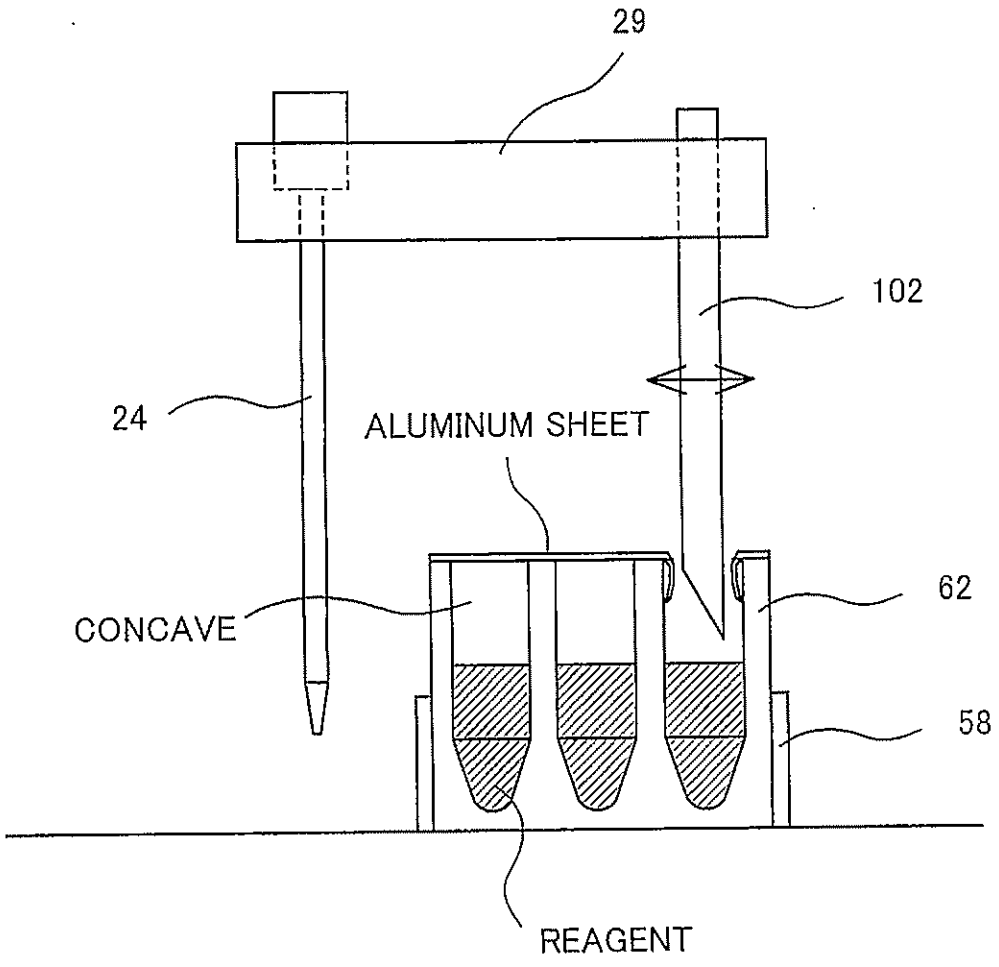


Fig. 10

