Fig. 1

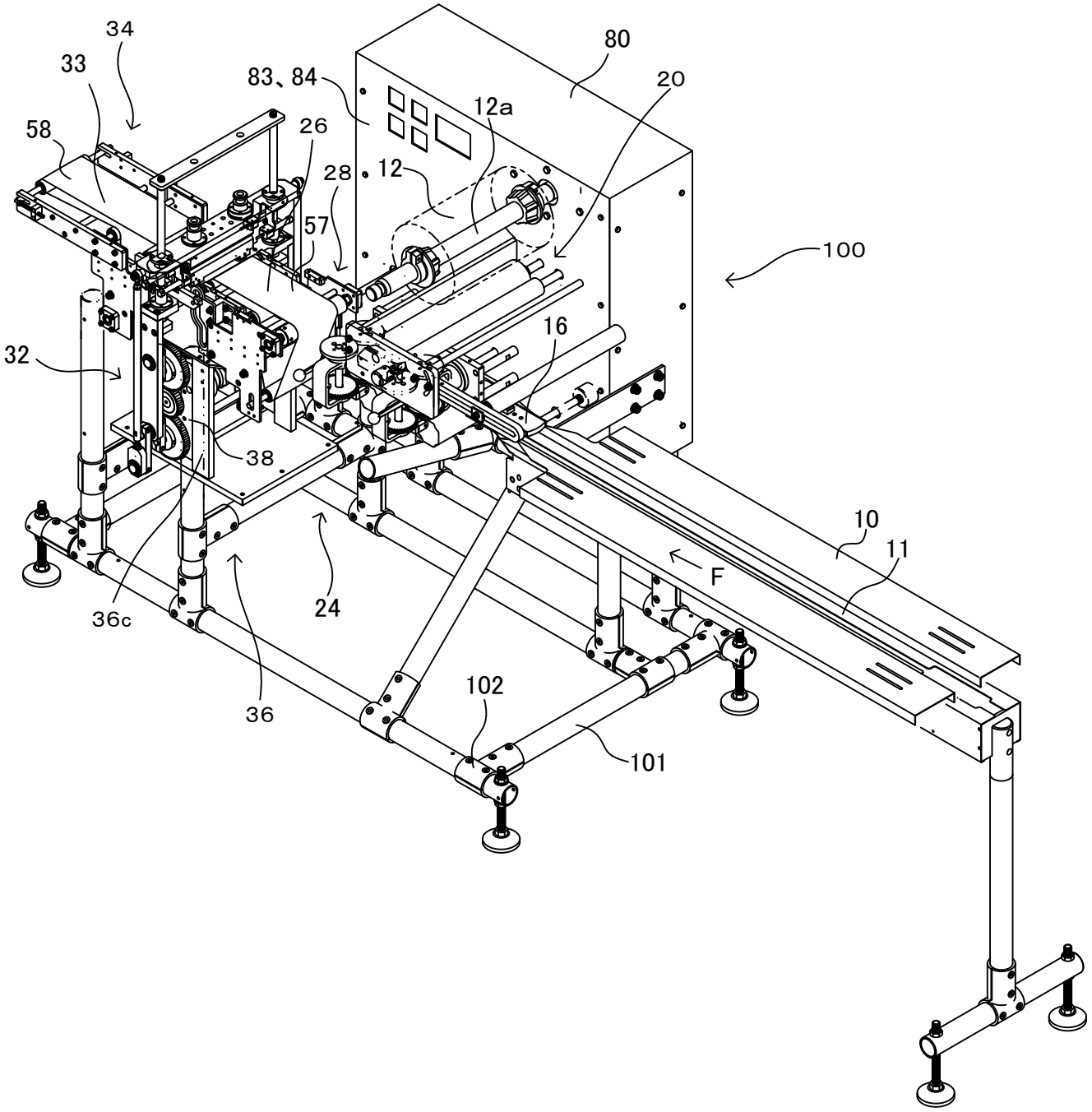

34
33
58
83、84
26
28
57
12
12a
80
20
100
16
32
38
10
11
F
24
36c
36
102
101

Fig. 2

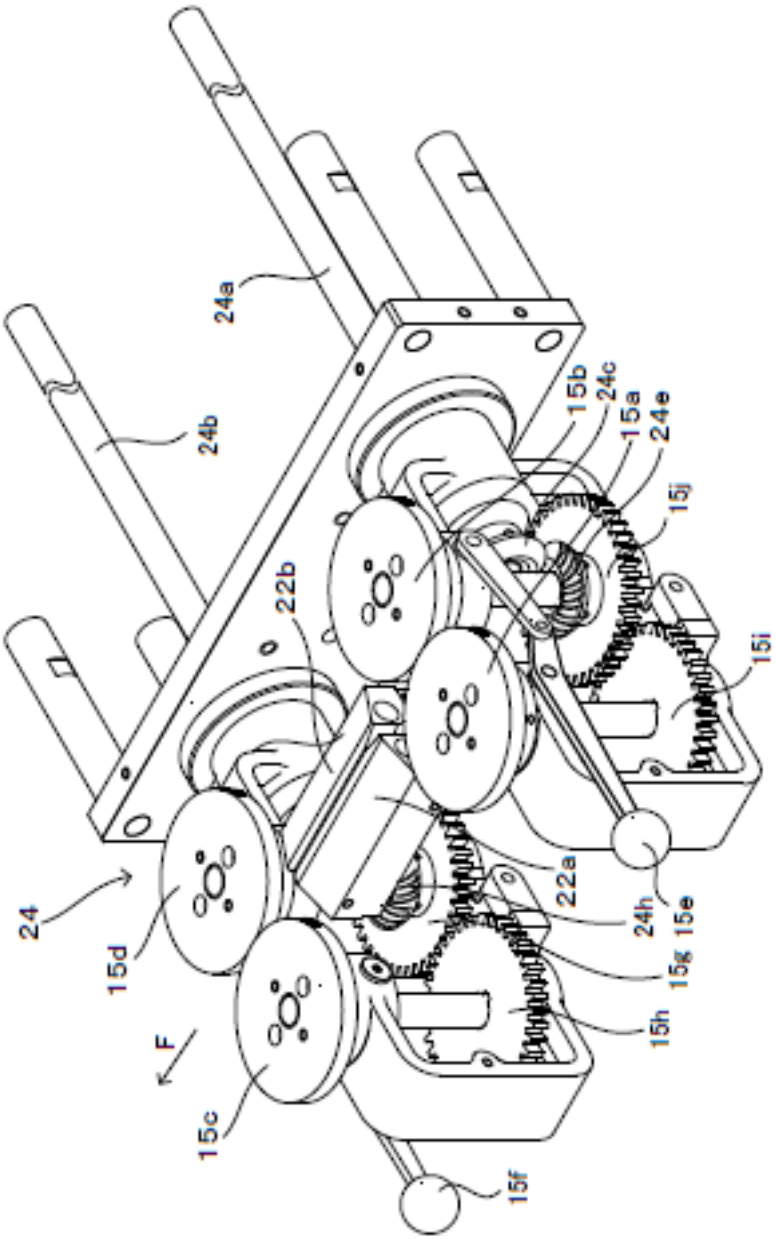

24a
24b
15b
24c
15a
24e
15j
22b
15l
22a
24h
15e
15g
15h
24
15d
F
15c
15f

Fig. 3A

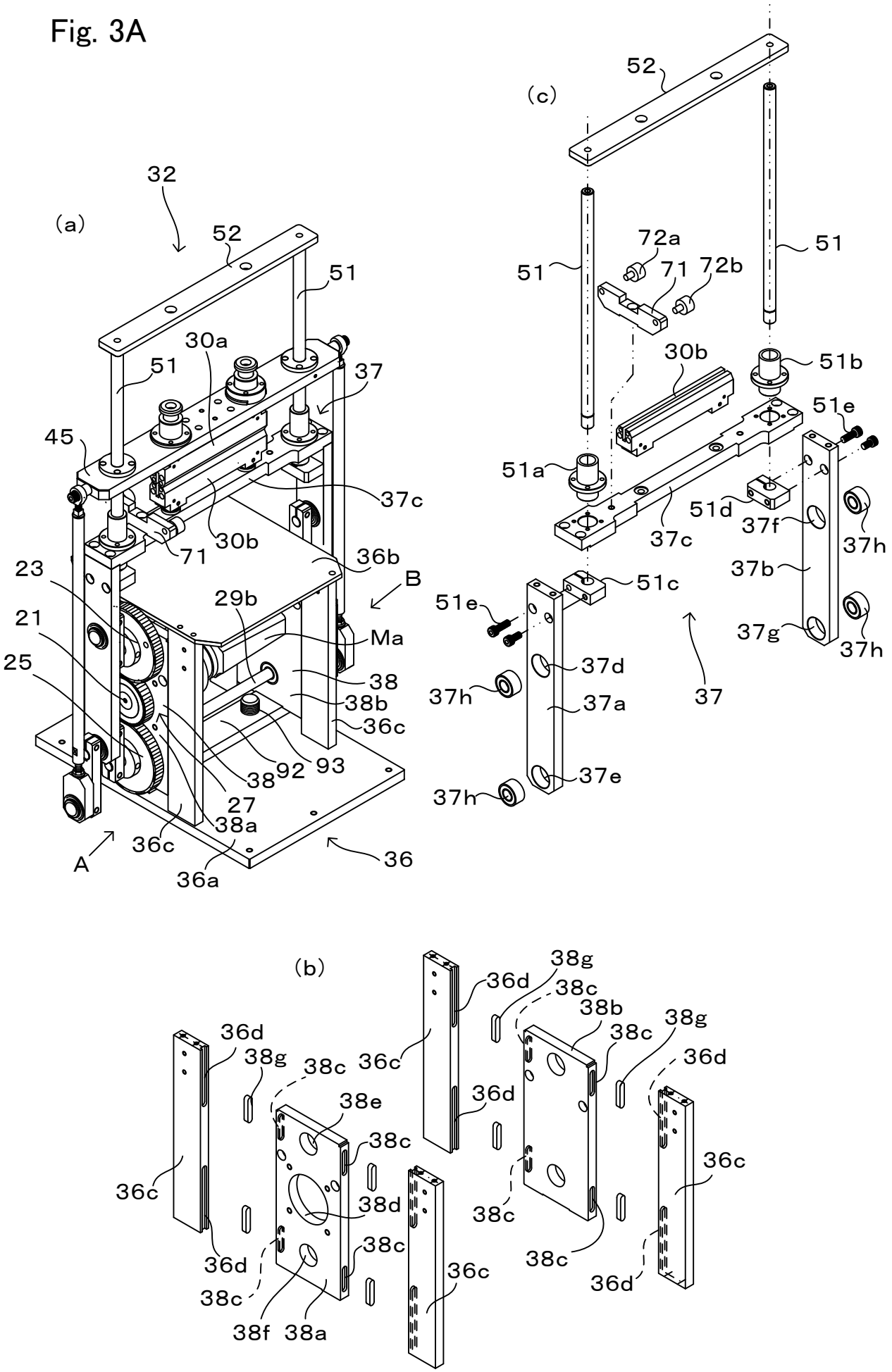

(a)
32
52
51
30a
51
37
45
37c
71
30b
36b
B
23
29b
21
Ma
25
38
38b
36c
92
93
38
27
38a
36c
A
36a
36
(c)
52
72a
71
72b
51
51
30b
51b
51e
51a
51d
37f
37h
37c
37b
51c
51e
37d
37h
37a
37
37g
37h
37e
37h
(b)
38g
36d
38c
36d
38c
36c
38b
38c
38g
36d
36d
38e
38c
36c
36c
38d
38c
36d
38c
38c
36c
38c
38f
38a

Fig. 3B

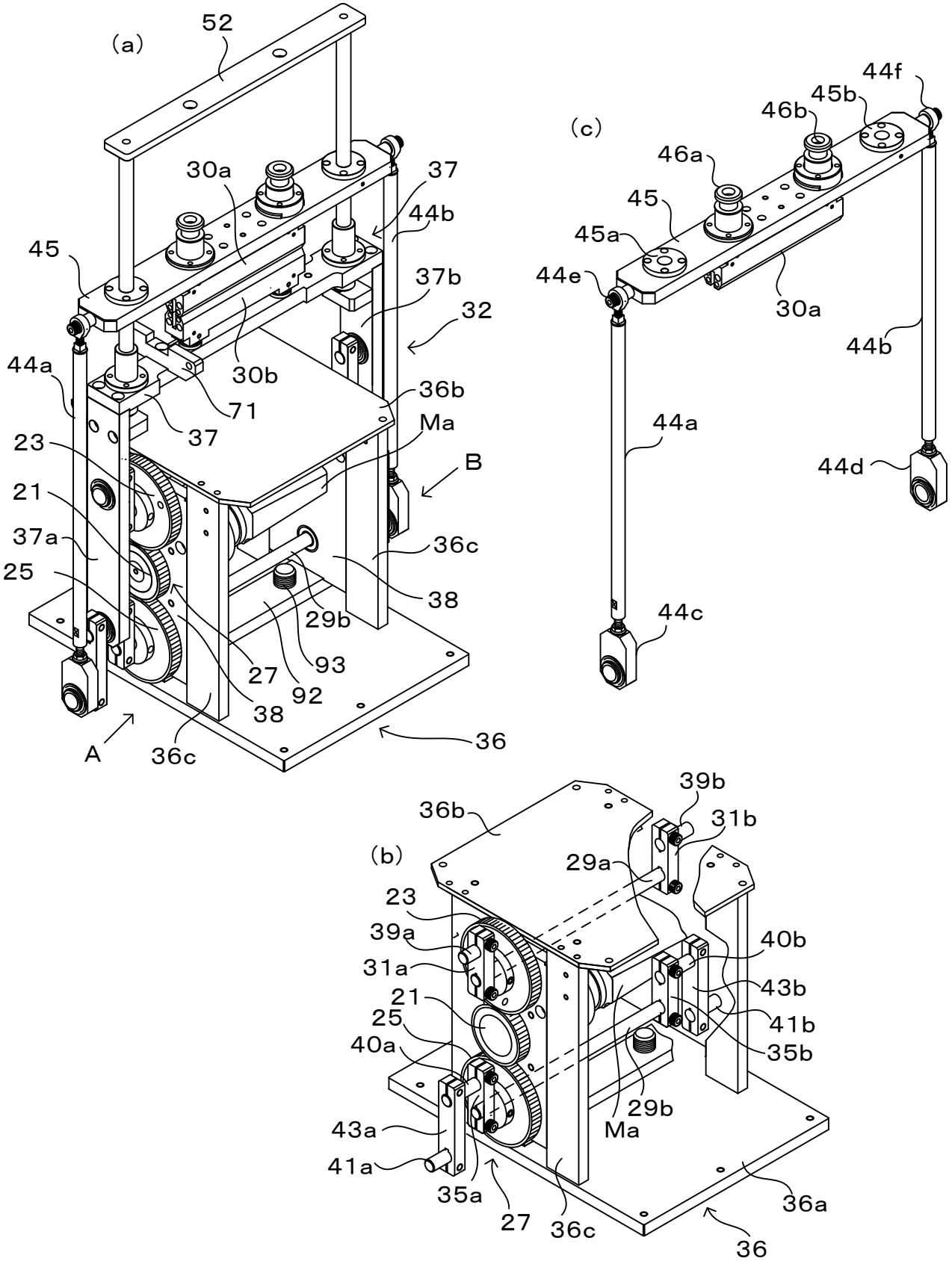

(a)
52
30a
37
44b
45
37b
32
44a
30b
36b
71
37
Ma
23
B
21
37a
36c
25
38
29b
93
27
92
38
A
36c
36
(c)
44f
45b
46b
46a
45
45a
44e
30a
44b
44a
44d
44c
(b)
39b
36b
31b
29a
23
39a
40b
31a
43b
21
41b
25
35b
40a
29b
Ma
43a
41a
35a
27
36c
36a
36

Fig. 4

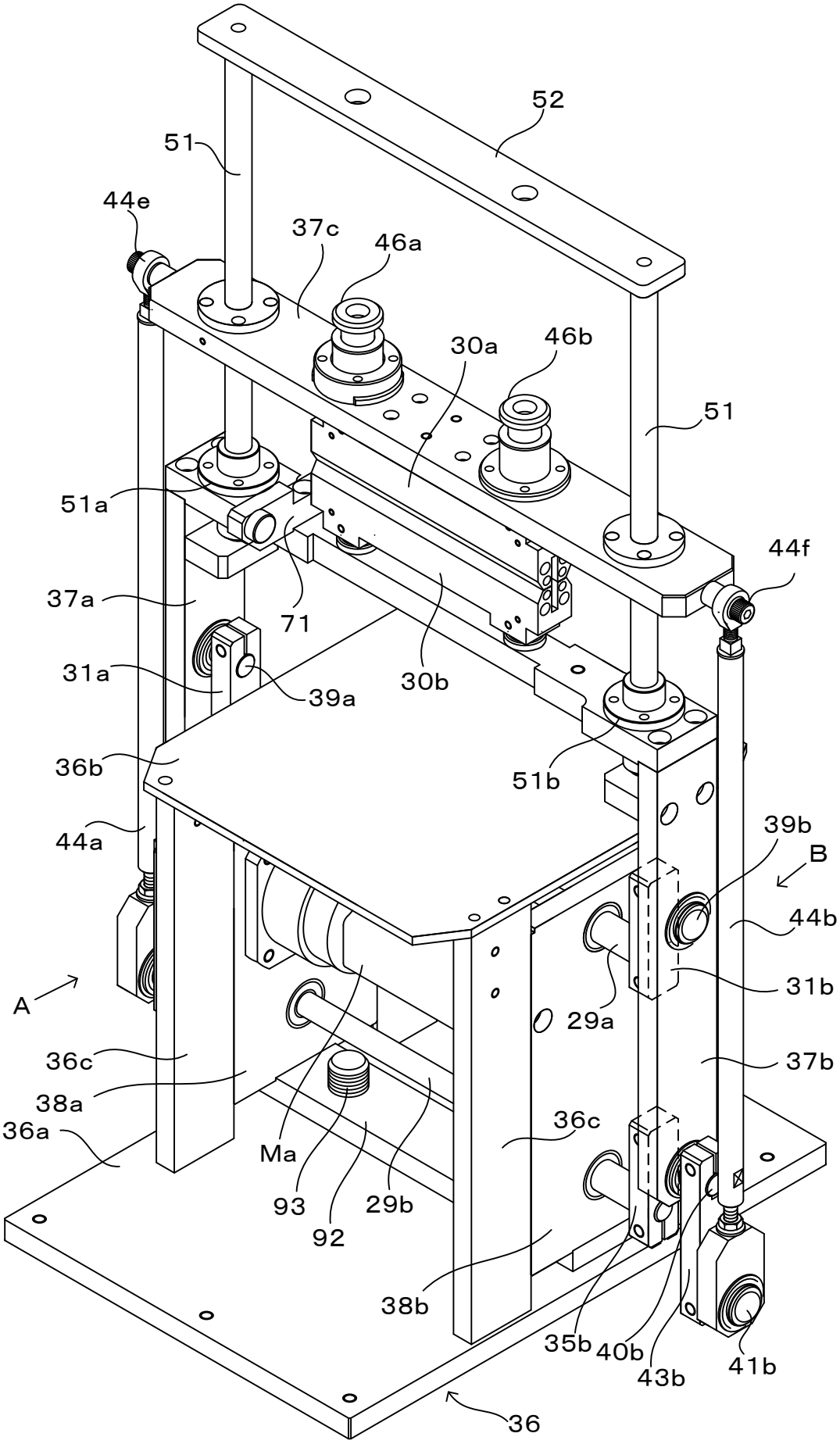

52
51
44e
37c
46a
30a
46b
51
51a
44f
37a
71
30b
31a
39a
36b
51b
39b
B
44a
44b
A
31b
29a
36c
37b
38a
36a
Ma
36c
93
29b
92
38b
35b
40b
43b
41b
36

Fig. 5A

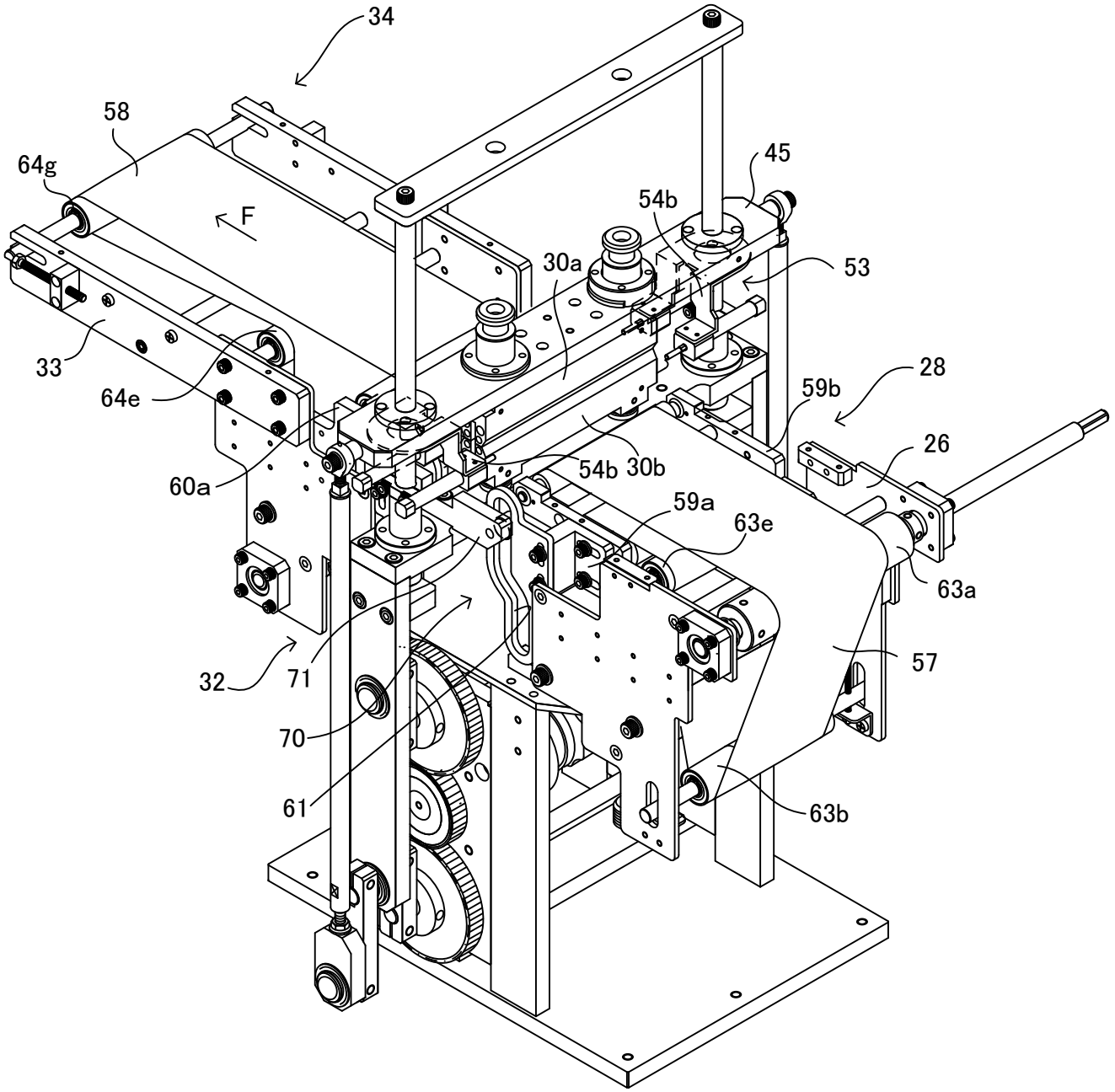

34
58
64g
F
45
54b
30a
53
33
64e
28
59b
26
60a
54b
30b
59a
63e
63a
57
32
71
70
61
63b

Fig. 5B

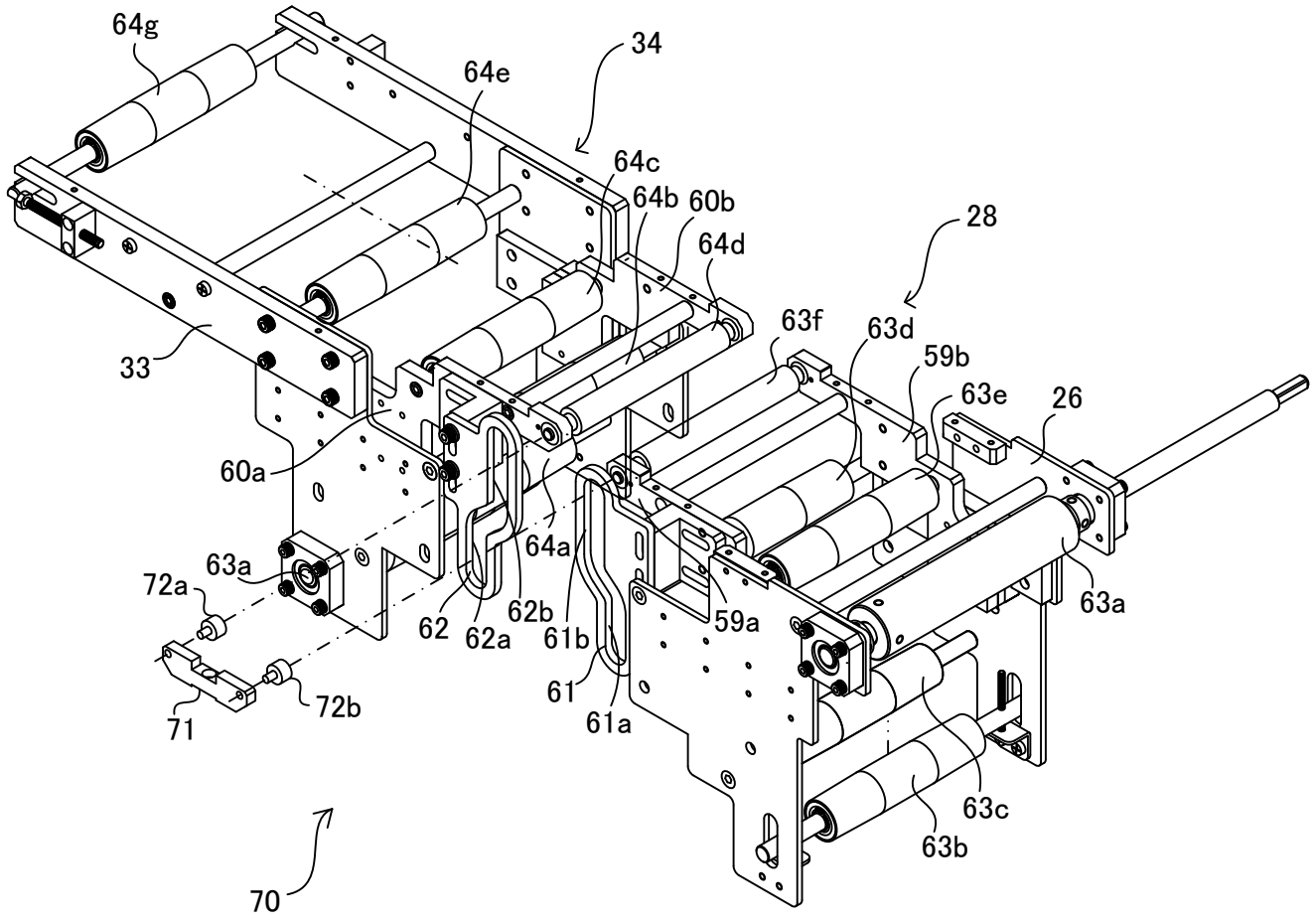

64g
64e
34
64c
64b
60b
64d
28
63f
63d
59b
63e
26
33
60a
64a
63a
72a
62
62a
62b
61b
59a
63a
61
61a
72b
71
63c
63b
70

Fig. 6

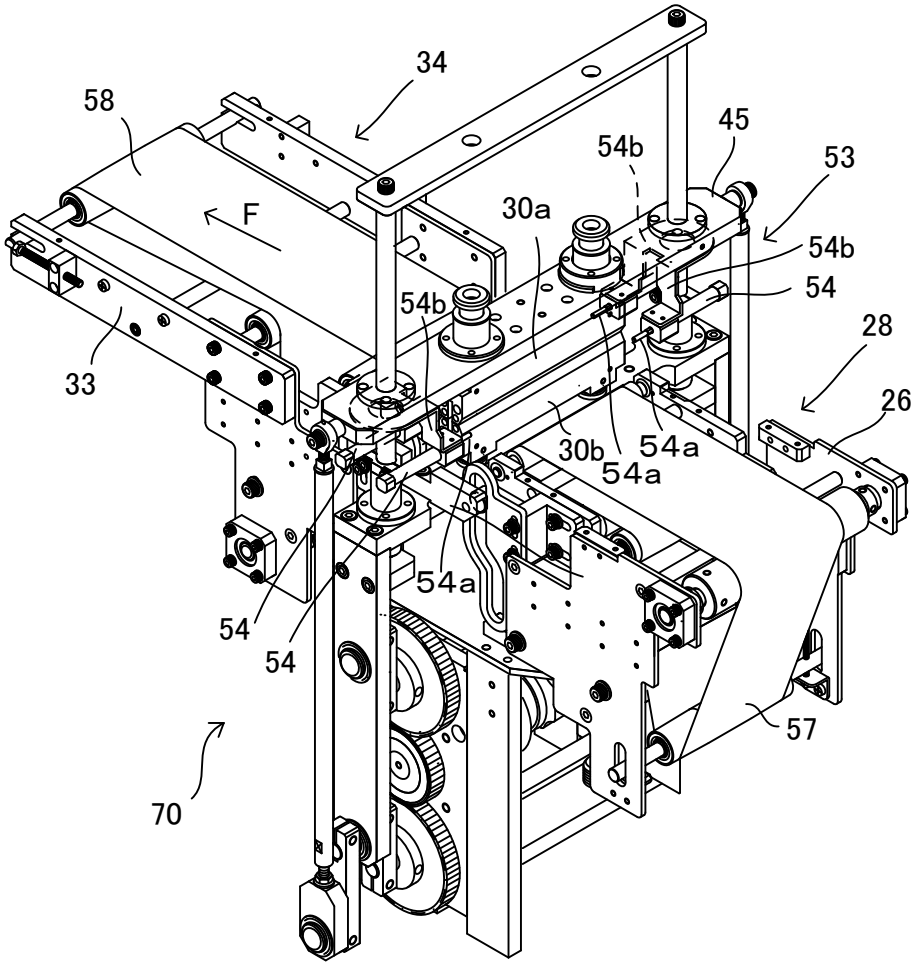


Fig. 7

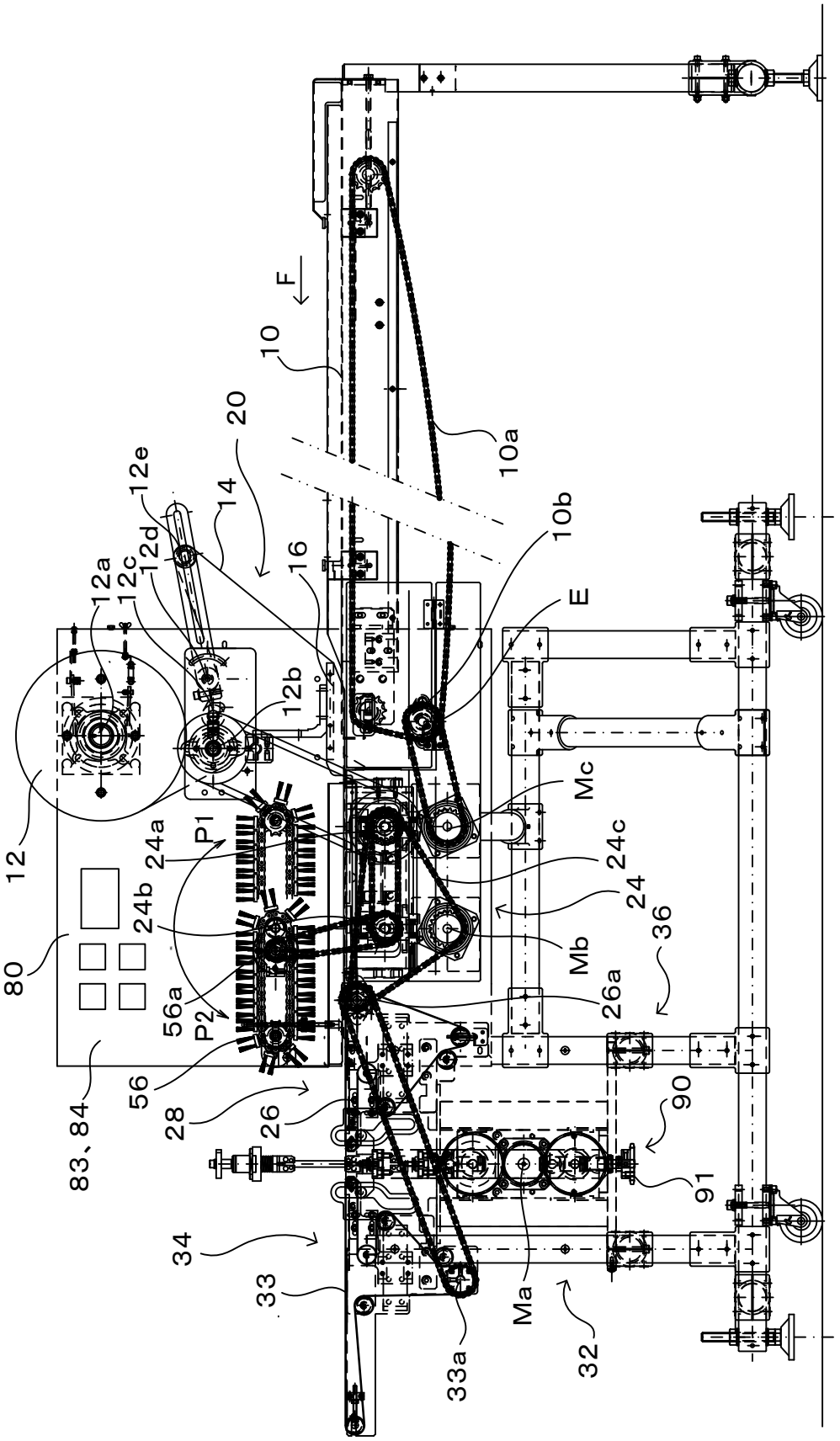

F
10
10a
20
14
12e
12d
12c
12a
16
10b
E
12b
Mc
12
24a
P1
24c
24
24b
Mb
36
80
56a
P2
26a
56
28
26
90
83、84
91
34
33
Ma
32
33a

Fig. 8

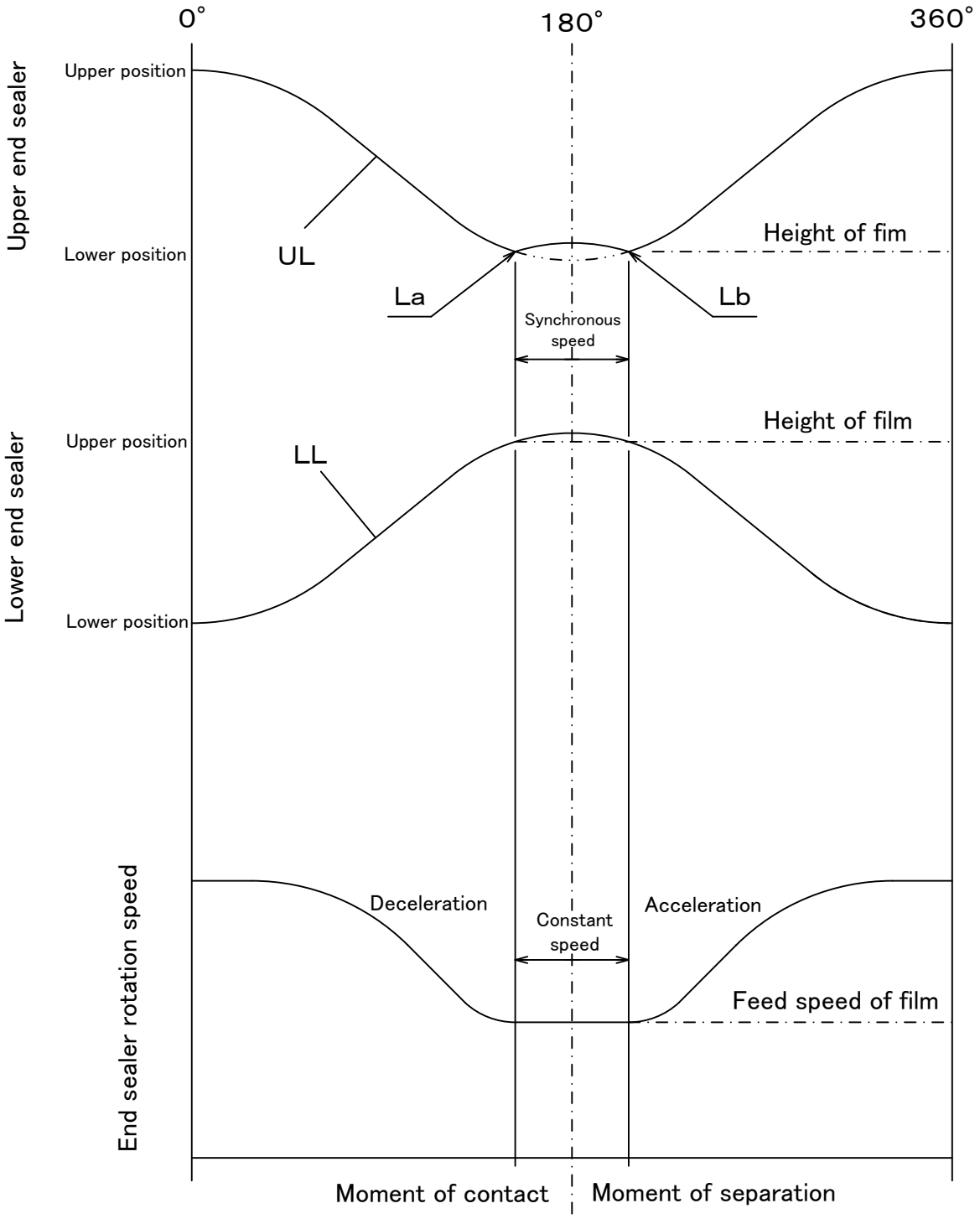

0°
180°
360°
Upper end sealer
Upper position
Lower position
UL
La
Lb
Height of fim
Synchronous speed
Lower end sealer
Upper position
Lower position
LL
Height of film
End sealer rotation speed
Deceleration
Constant speed
Acceleration
Feed speed of film
Moment of contact
Moment of separation

Fig. 9

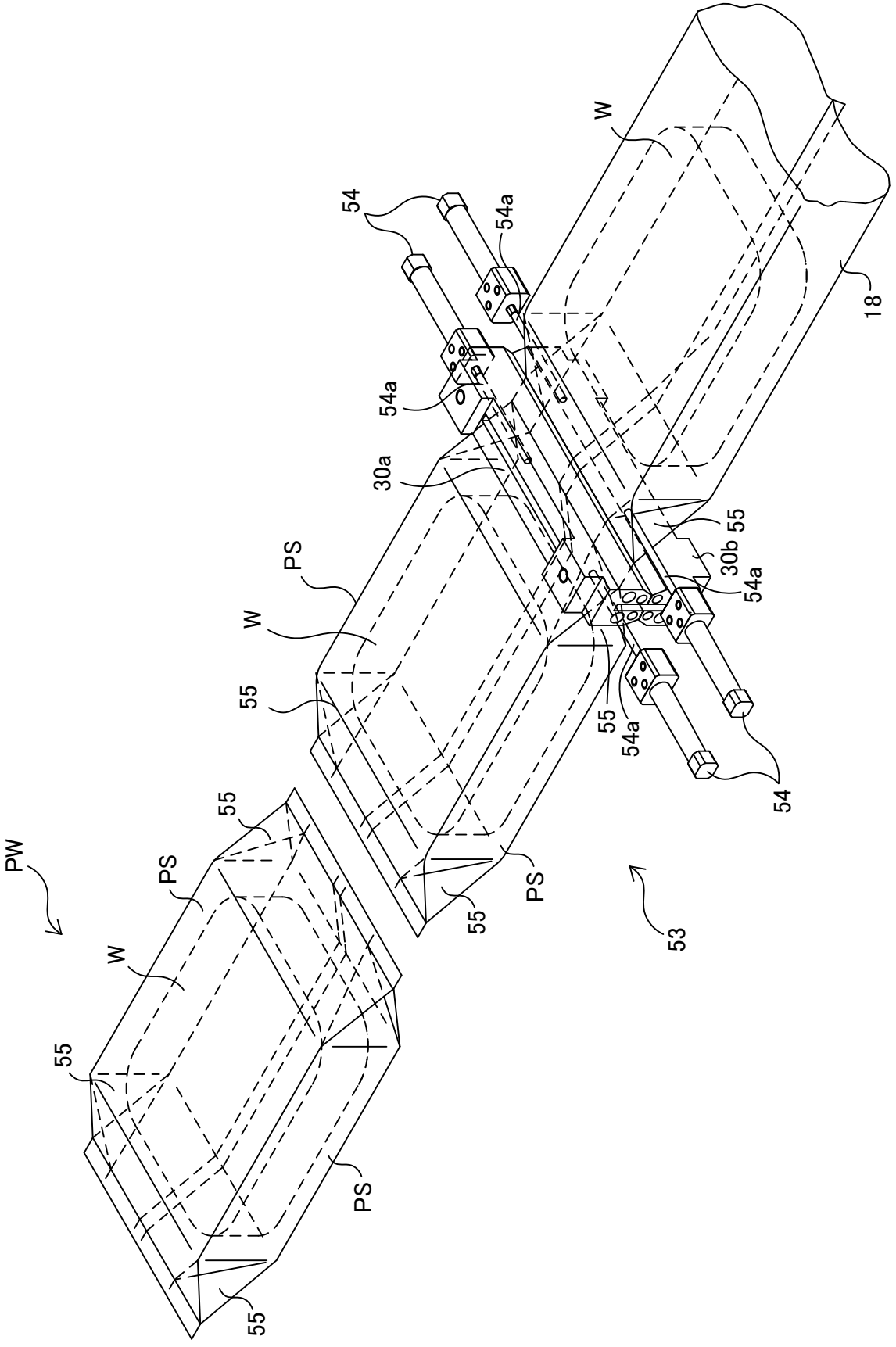
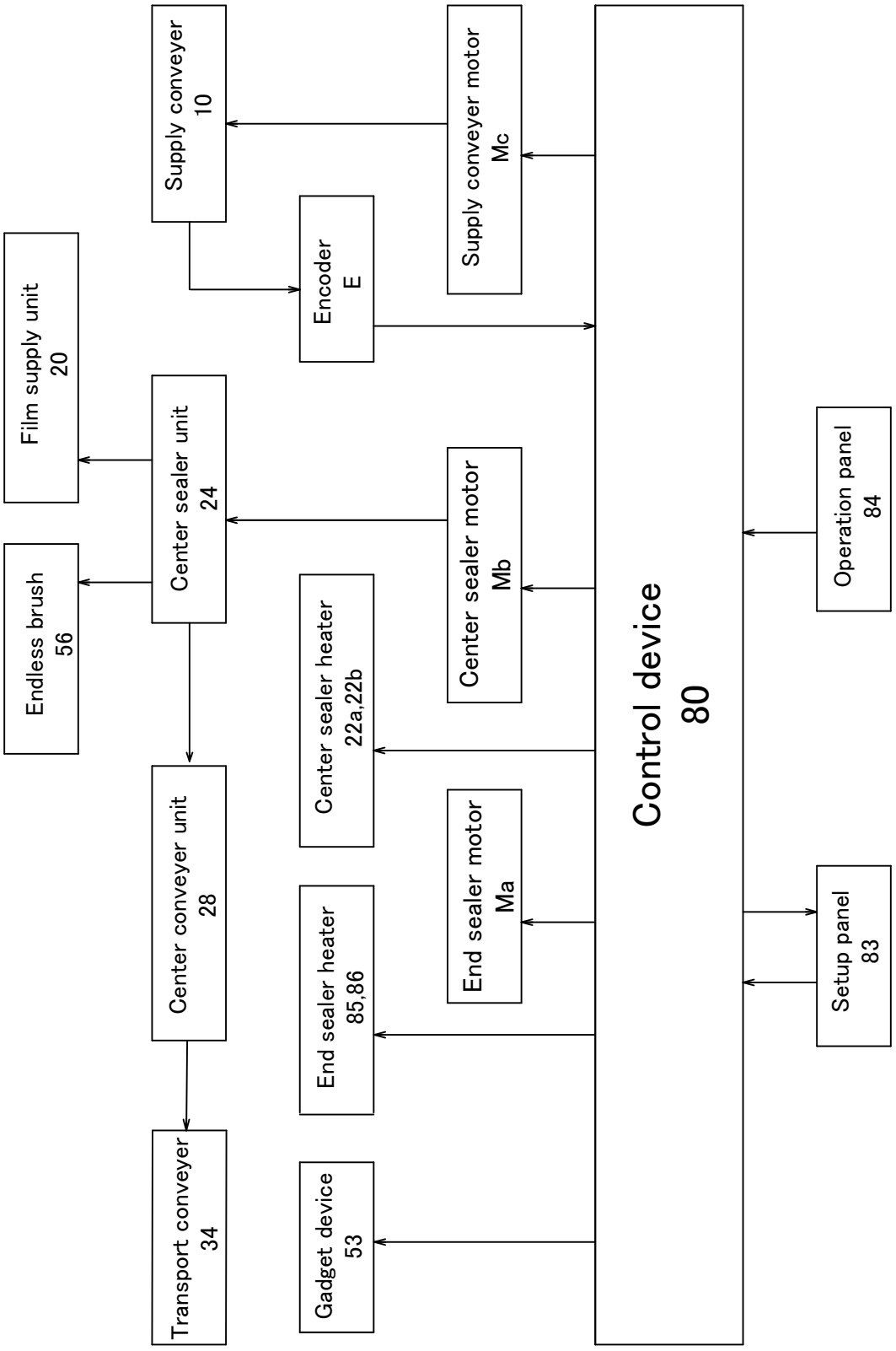

W
54
54a
18
54a
30a
55
30b
54a
PS
W
55
55
54a
54
55
PW
PS
W
PS
55
PS
55
53
55
PS
55

Fig. 10


Supply conveyer 10
Supply conveyer motor Mc
Encoder E
Film supply unit 20
Center sealer unit 24
Center sealer motor Mb
Endless brush 56
Center sealer heater 22a,22b
Operation panel 84
Control device 80
Center conveyer unit 28
End sealer motor Ma
End sealer heater 85,86
Setup panel 83
Transport conveyer 34
Gadget device 53

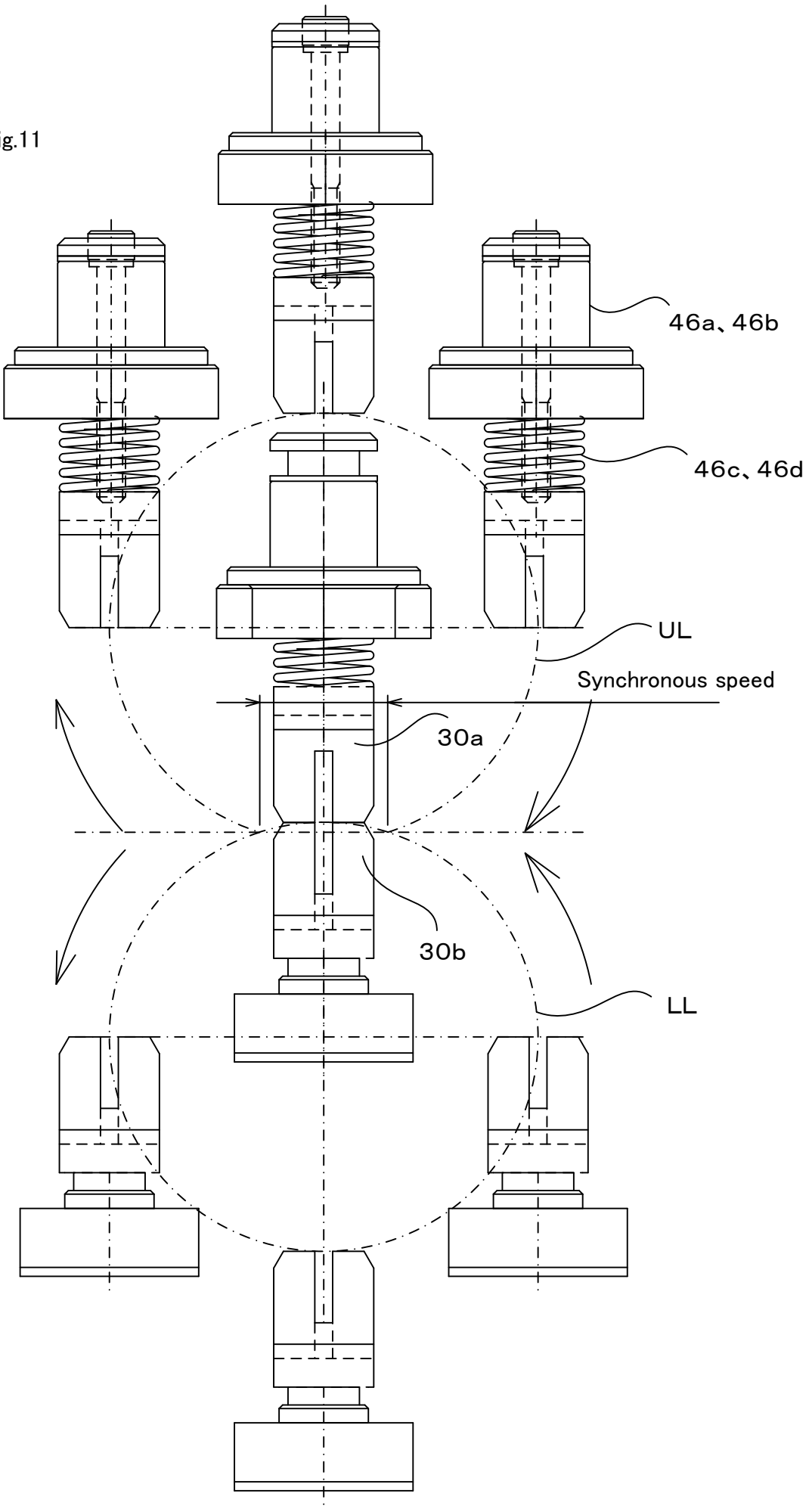



Fig.11