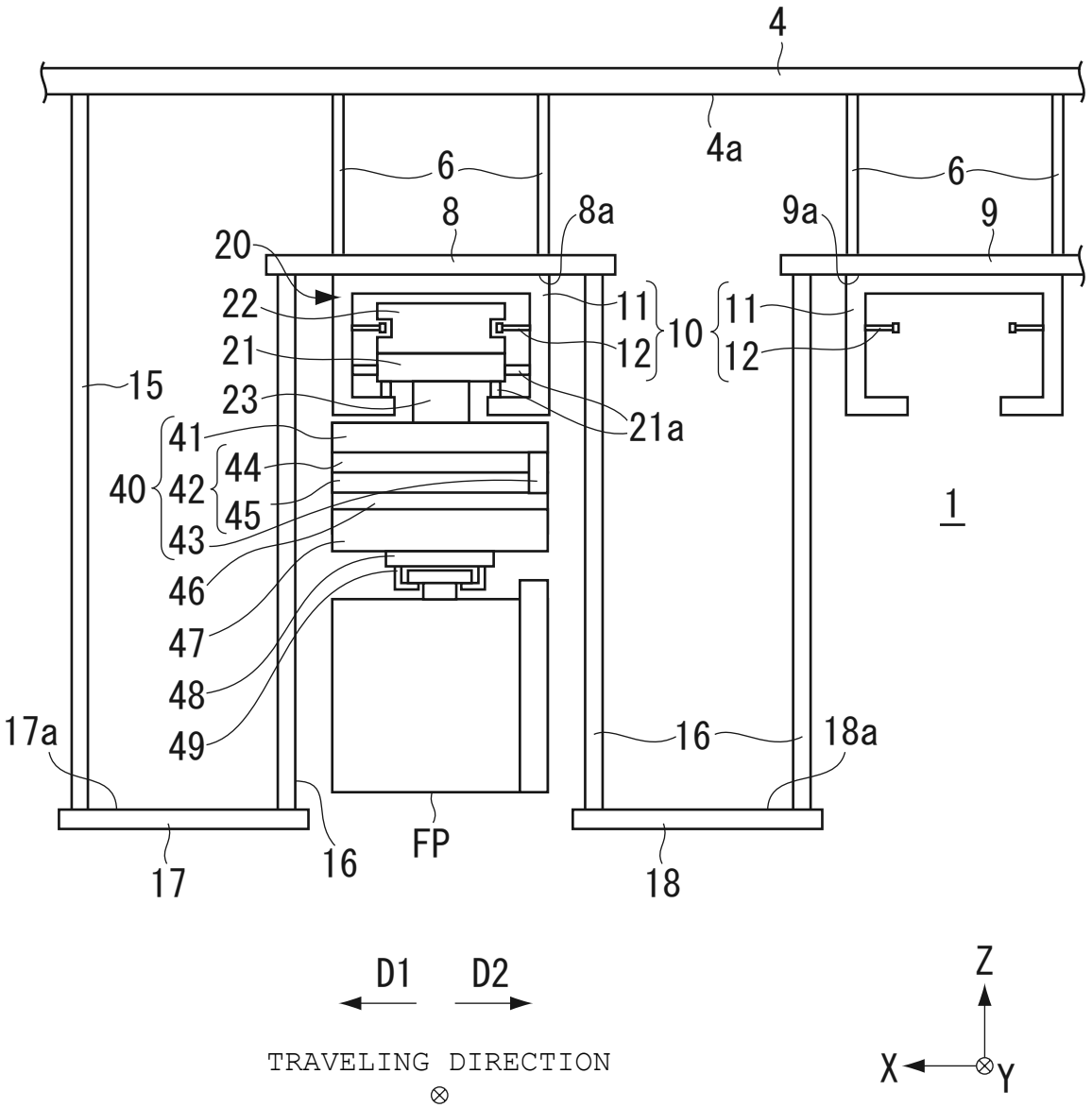
FIG. 1


4
4a
6
6
8
8a
9a
9
20
22
21
23
15
41
40
42
44
45
43
46
47
48
49
11
12
10
11
12
21a
1
17a
16
18a
17
16
FP
18
D1
D2
TRAVELING DIRECTION
Z
X
Y

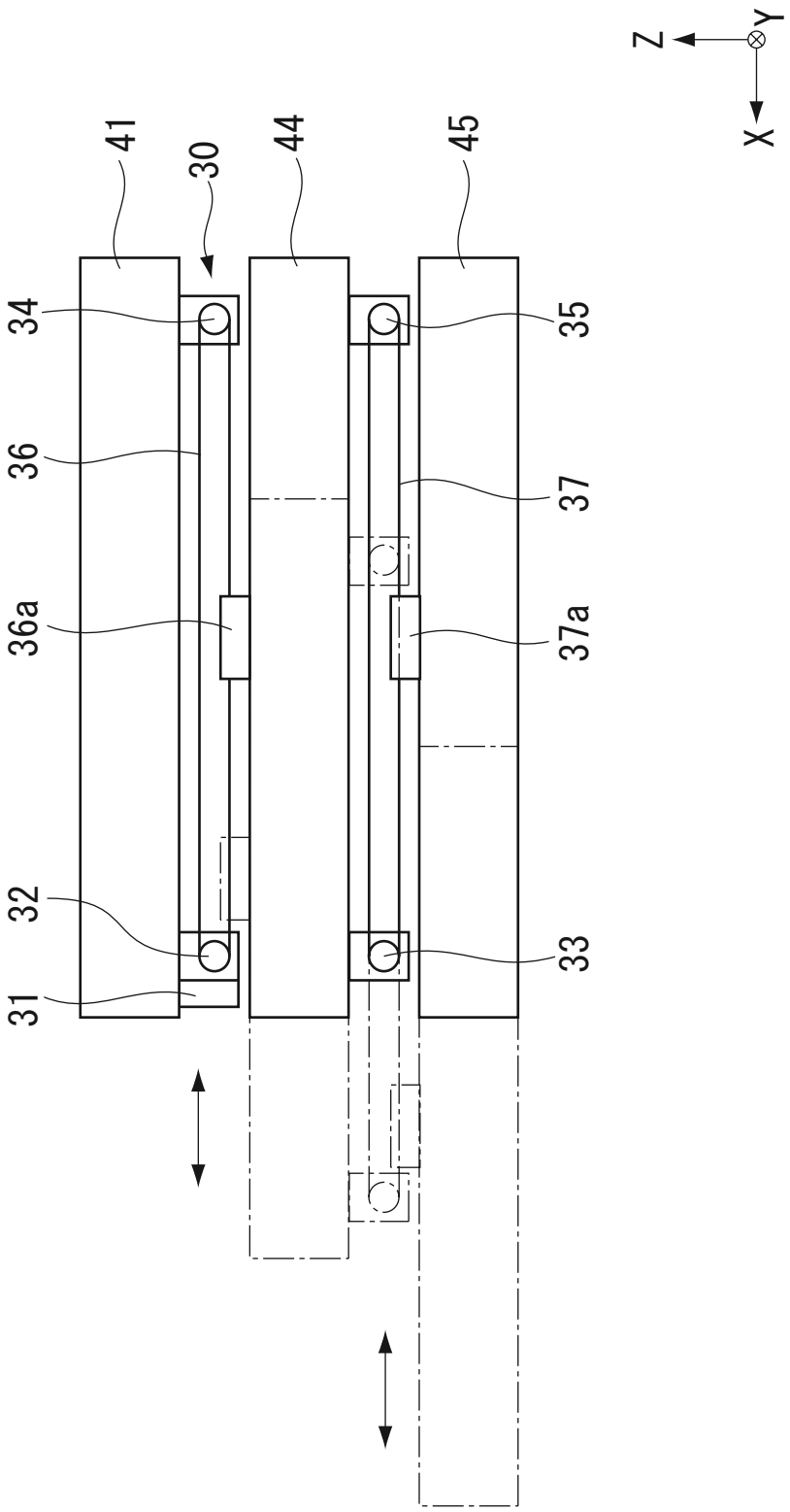


FIG. 2

FIG. 3

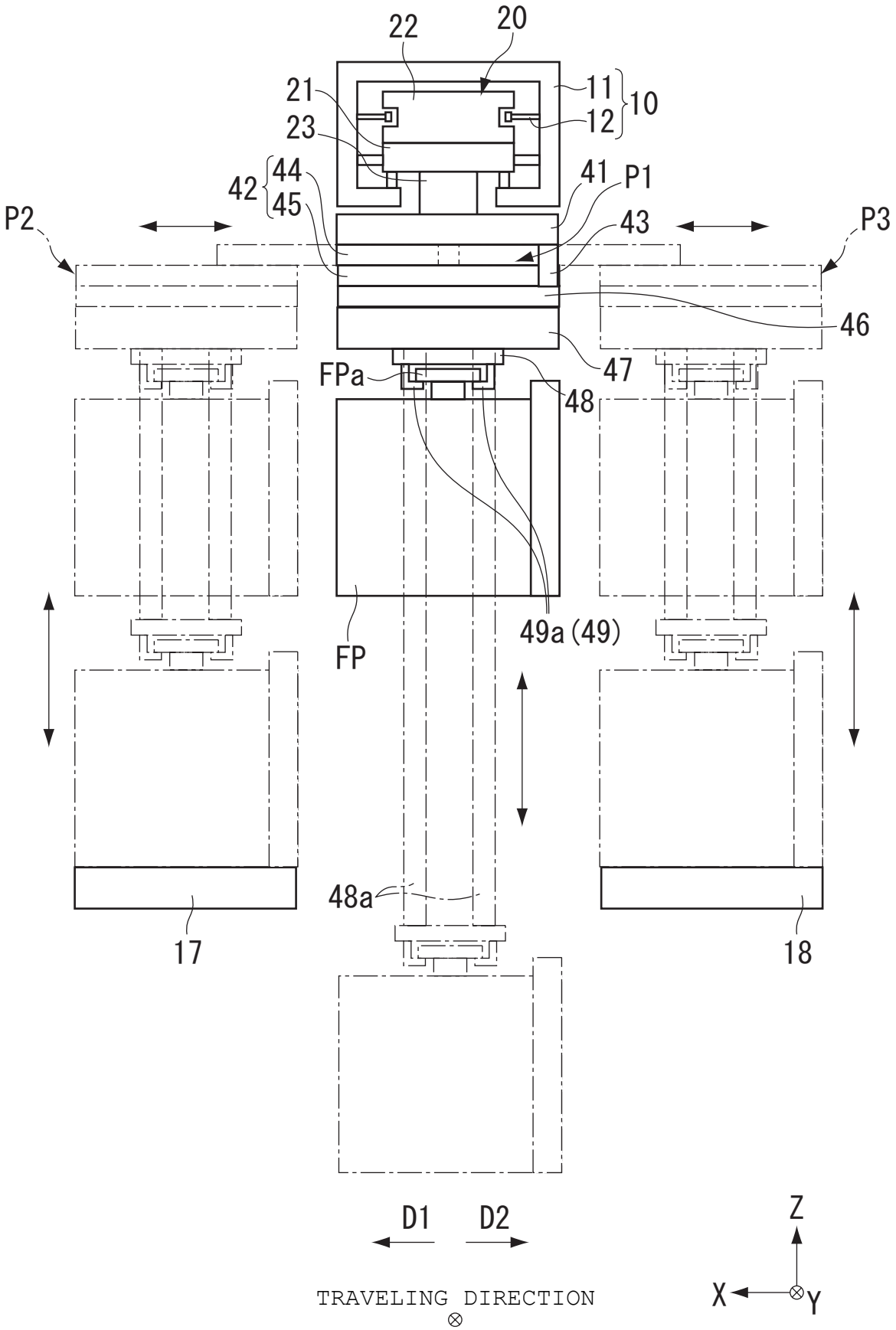
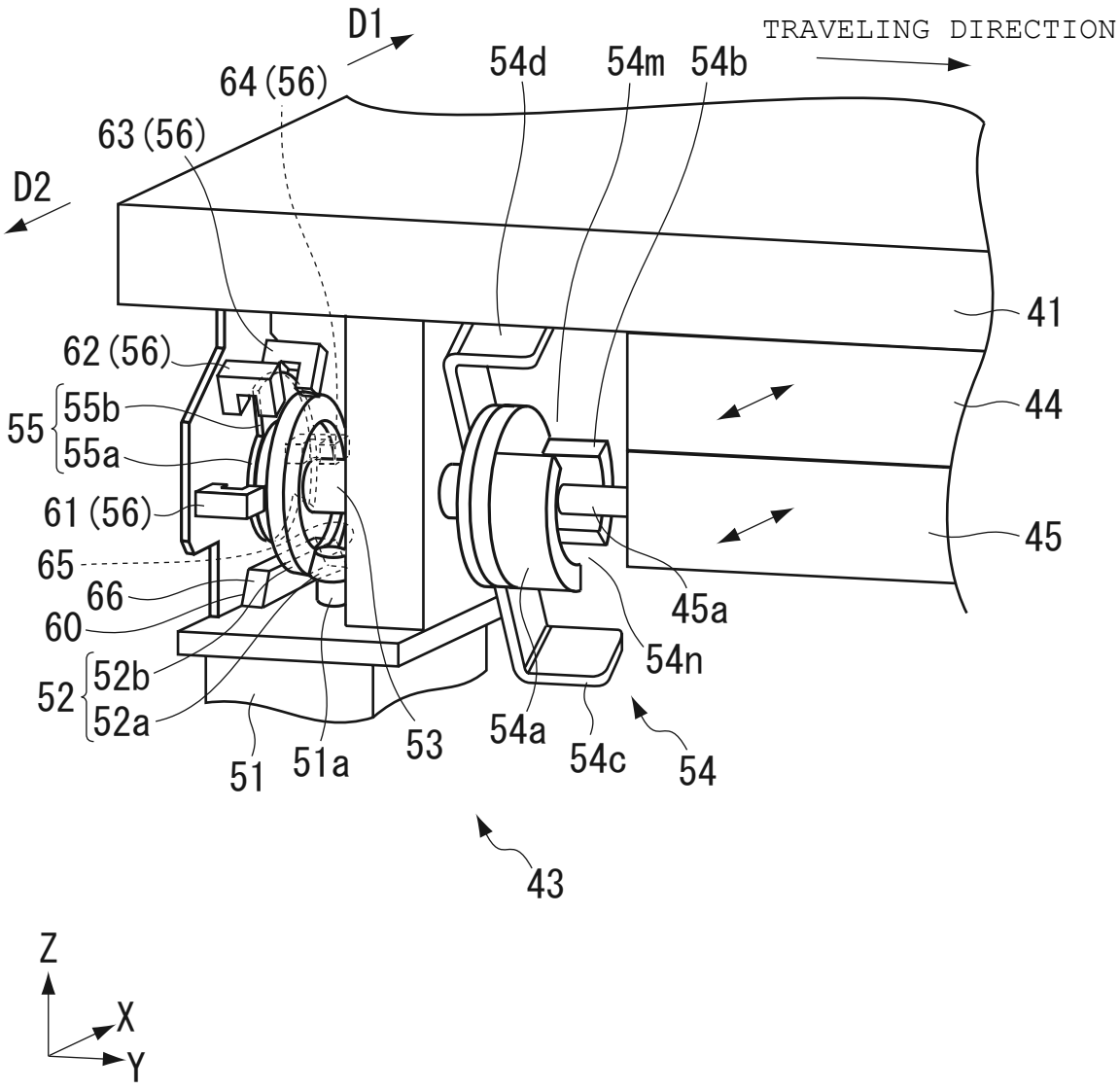
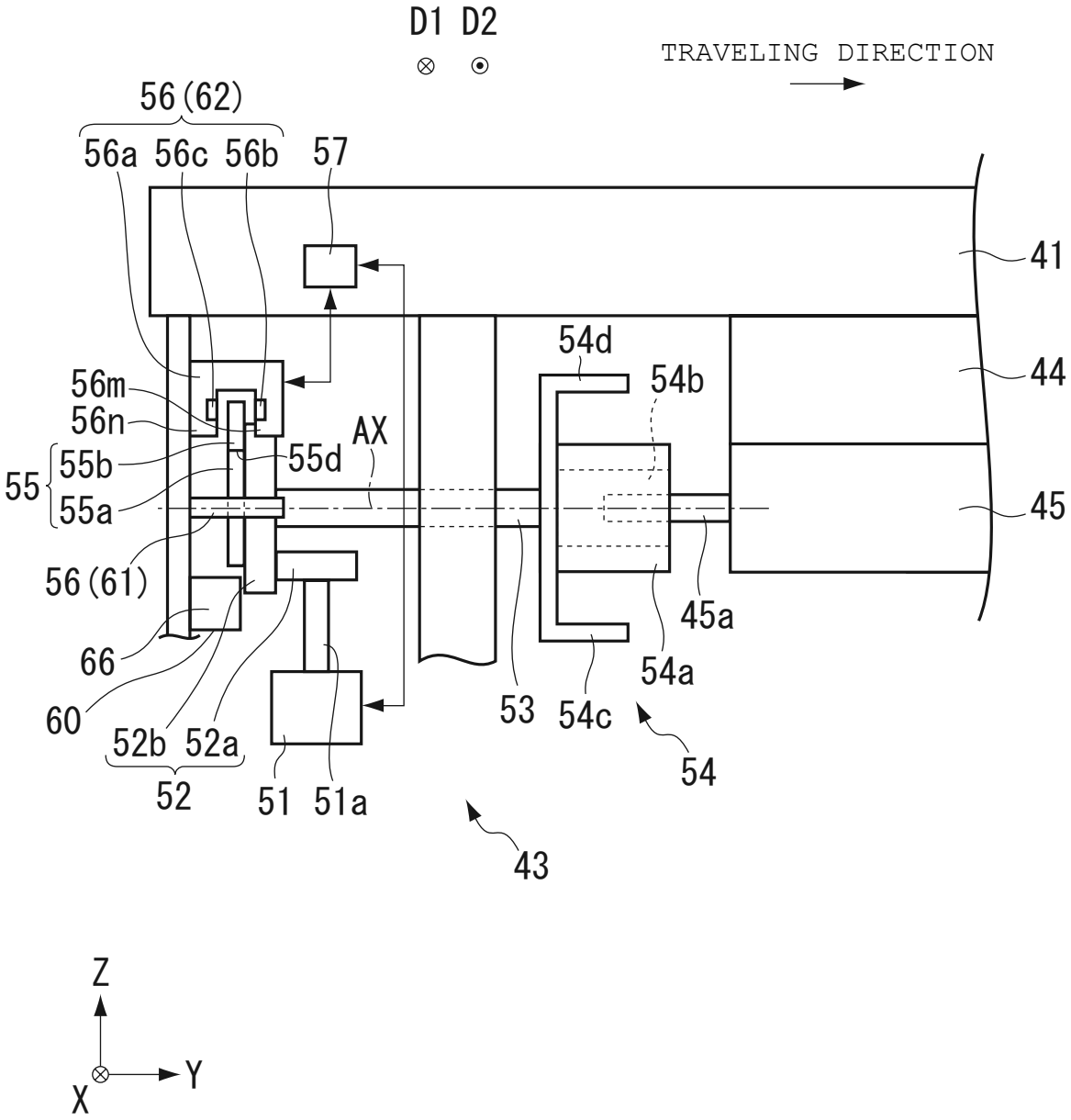
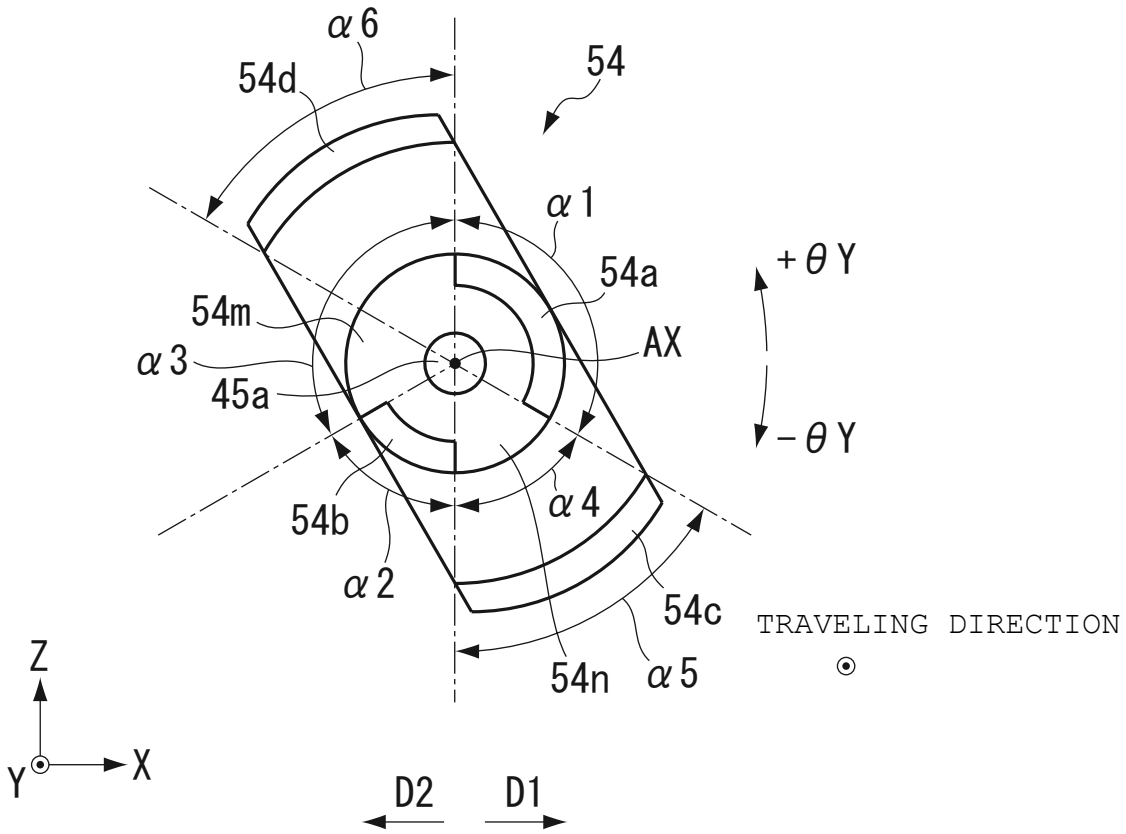

22
20
21
11
10
12
23
42
44
45
41
P1
43
P2
P3
46
47
FPa
48
49a (49)
FP
48a
17
18
D1
D2
TRAVELING DIRECTION
Z
X
Y

FIG. 4

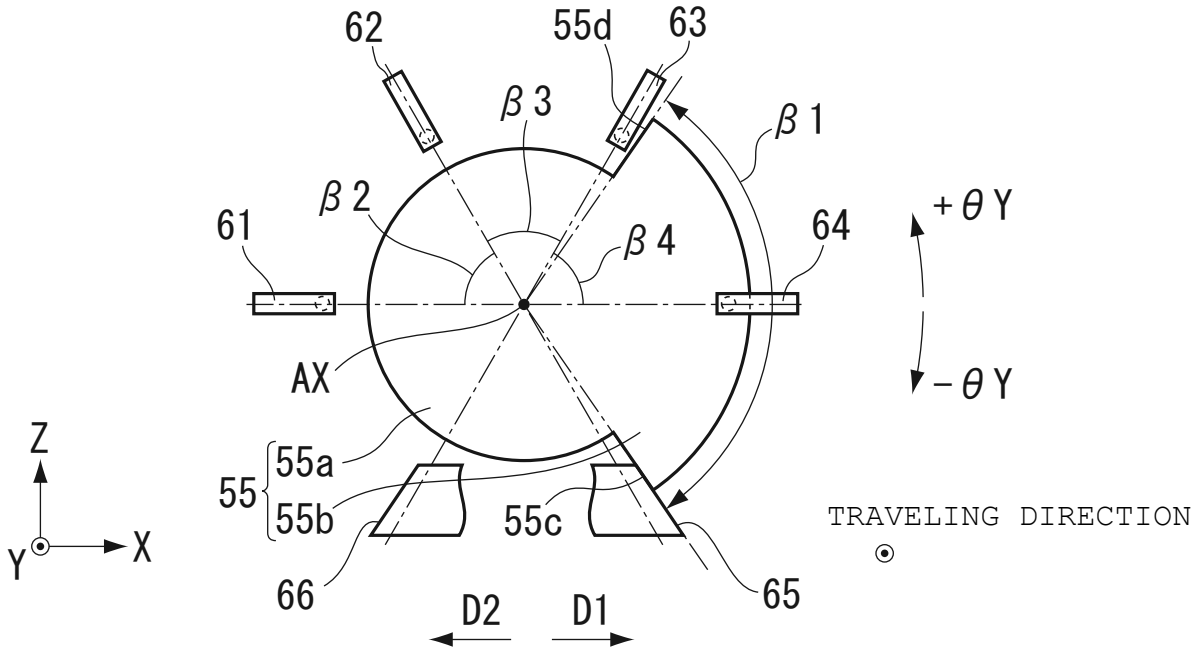

D1
TRAVELING DIRECTION
64 (56)
54d
54m
54b
63 (56)
D2
41
62 (56)
55
55b
55a
44
61 (56)
45
65
66
45a
60
54n
52
52b
52a
53
54a
54c
54
51
51a
43
Z
X
Y

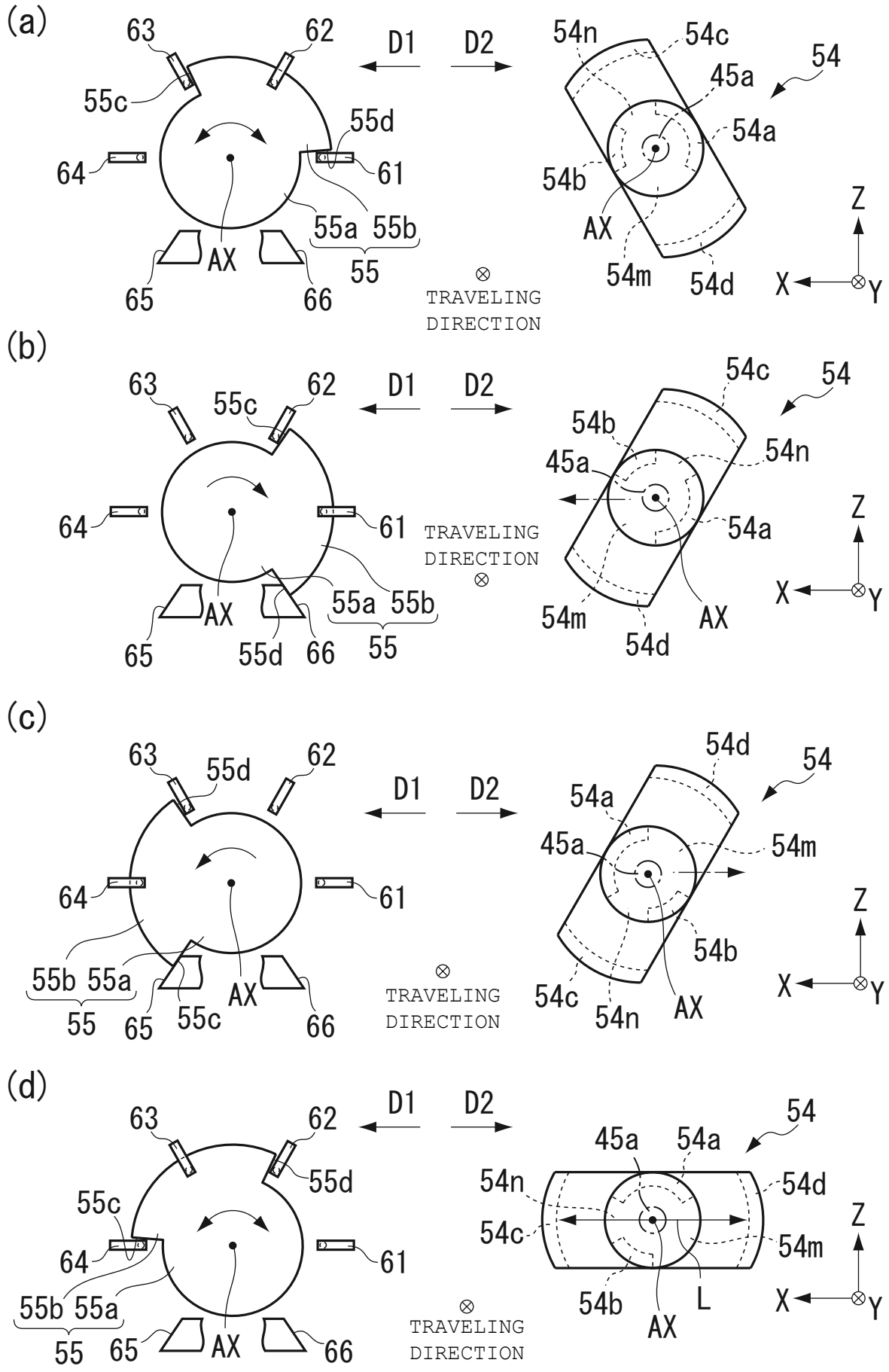

D1 D2
TRAVELING DIRECTION
56(62)
56a 56c 56b
57
41
54d
54b
44
56m
56n
AX
55
55b
55a
55d
45
56(61)
45a
66
54a
60
53
54c
54
52b 52a
52
51 51a
43
Z
Y
X

(a)


α6
54d
54
α1
54a
+θY
54m
AX
α3
45a
-θY
54b
α4
α2
54c
TRAVELING DIRECTION
54n
α5
Z
Y
X
D2
D1

(b)


62
55d
63
β3
β1
β2
61
β4
64
+θY
AX
-θY
55a
55
55b
55c
TRAVELING DIRECTION
66
65
Z
Y
X
D2
D1


(a)
63
62
D1
D2
54n
54c
54
45a
55c
55d
54a
64
61
54b
55a 55b
AX
Z
55
54m
54d
X
Y
65
66
TRAVELING DIRECTION
(b)
63
55c
62
D1
D2
54c
54
54b
54n
45a
64
61
54a
TRAVELING DIRECTION
55a 55b
AX
54m
54d
55
65
55d
66
(c)
63
55d
62
D1
D2
54d
54
54a
45a
54m
64
61
55b 55a
54b
AX
54c
54n
55
65
55c
66
TRAVELING DIRECTION
(d)
63
62
D1
D2
54
45a
54a
55d
55c
54n
54d
64
61
54c
54m
55b 55a
54b
L
AX
55
65
66
TRAVELING DIRECTION