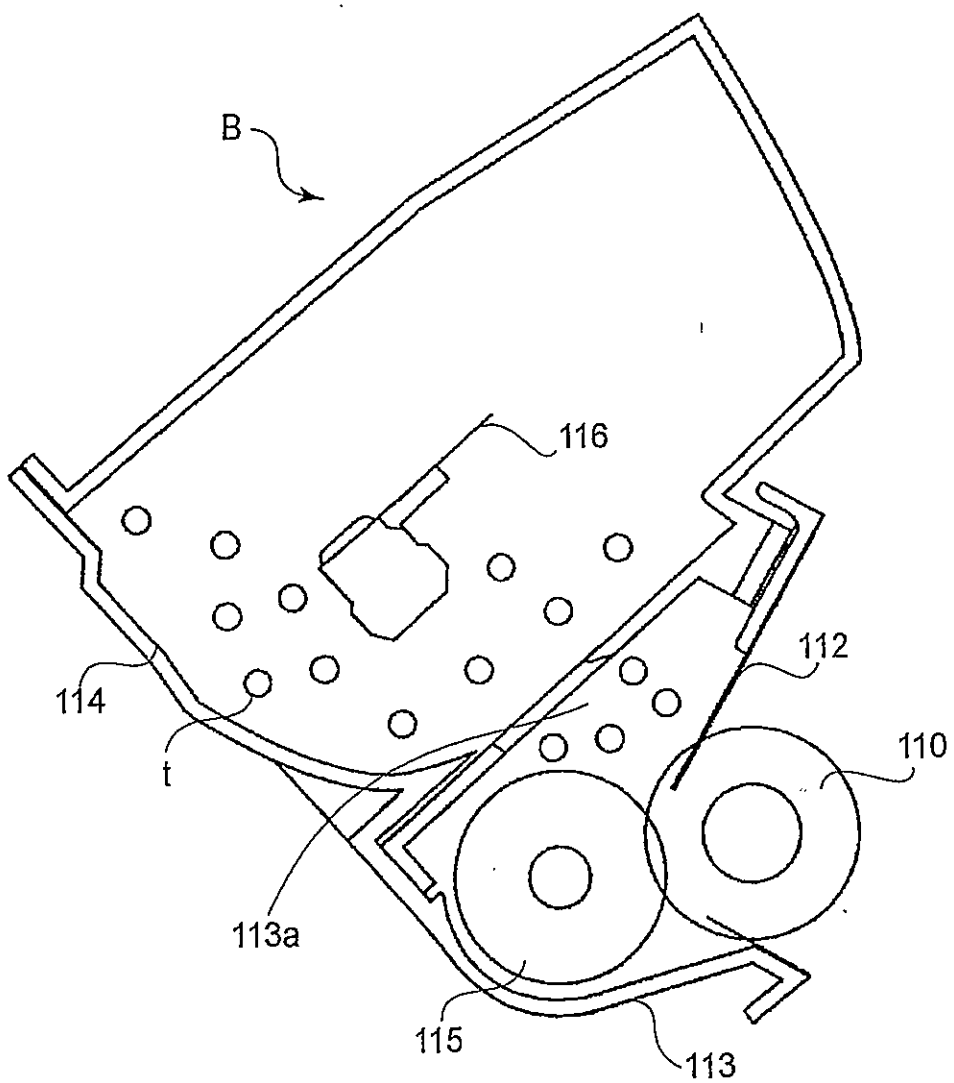


FIG.1

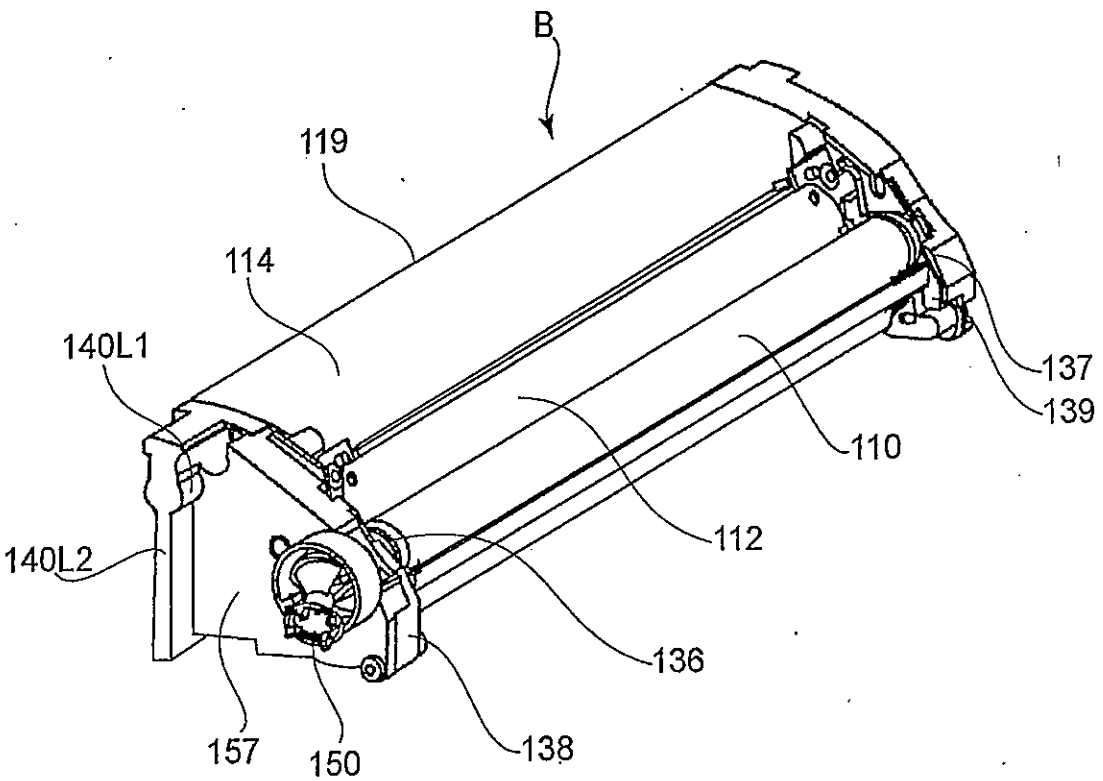


FIG.2

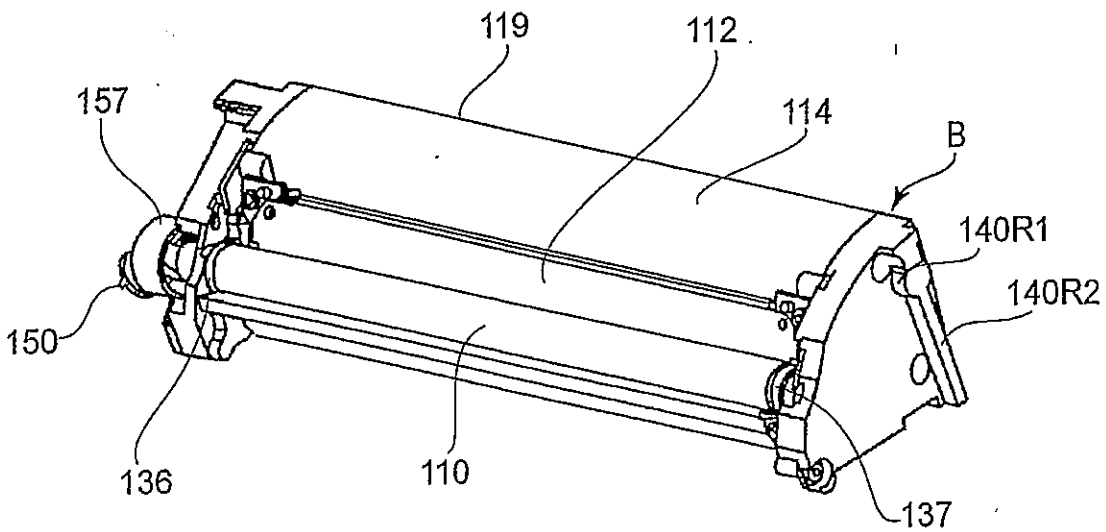


FIG.3

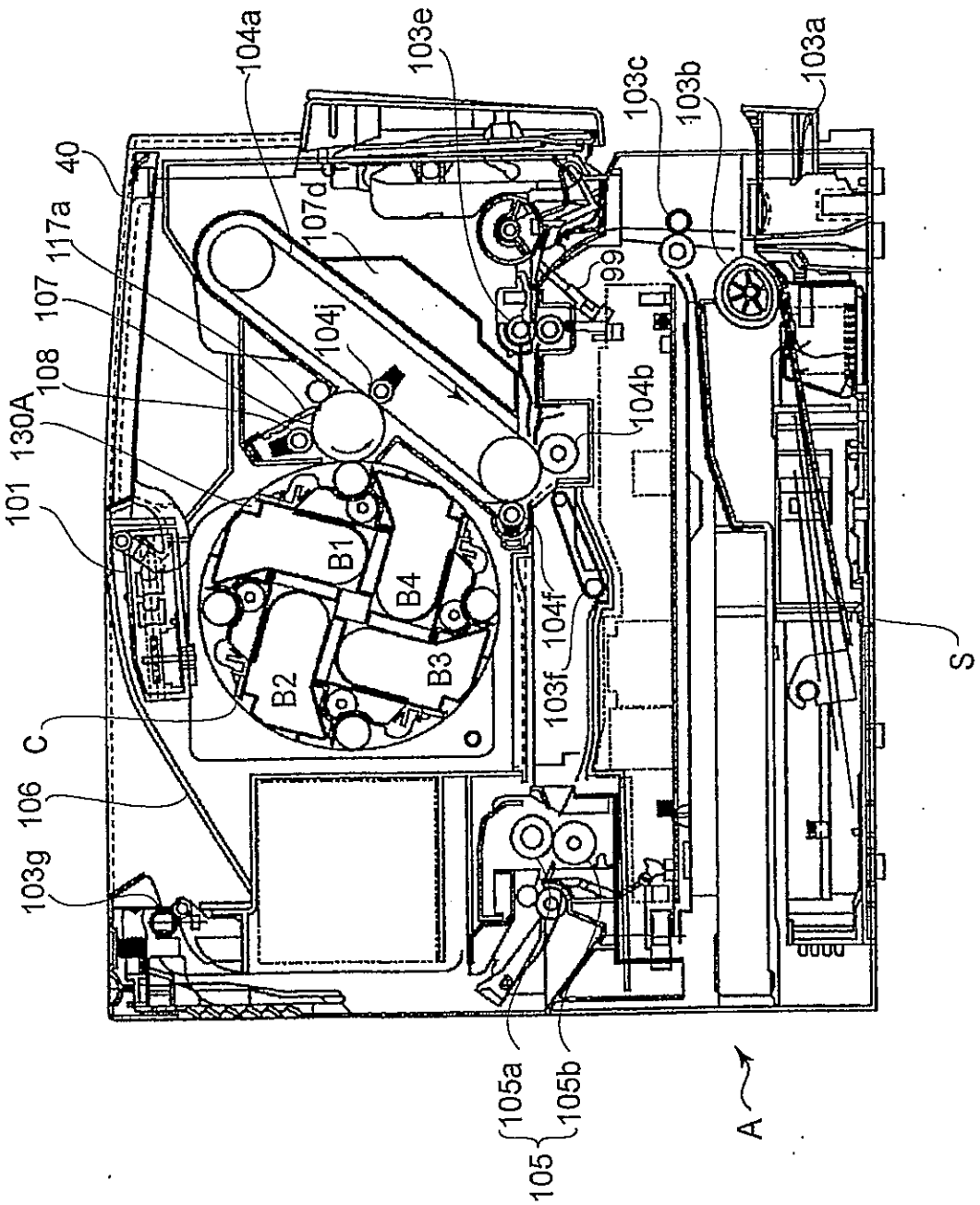
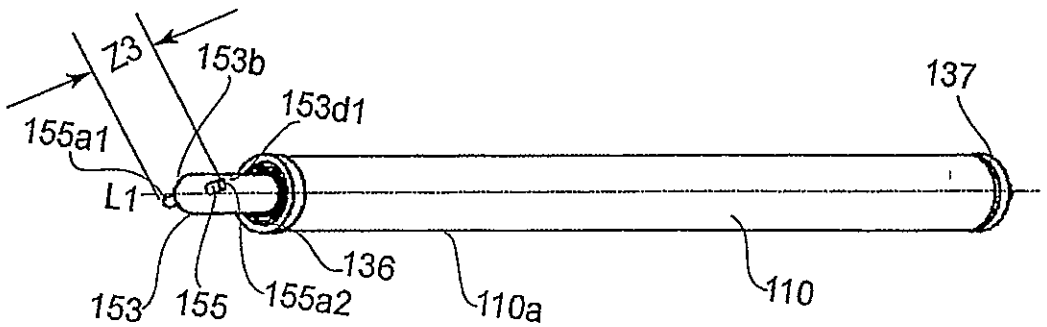

104a
103e
103c
103b
103a
40
107d
117a
107
104j
99
108
130A
104b
101
B1
B4
B2
B3
104f
103f
S
C
106
103g
105a
105b
105
A

FIG.4

(a)


Z3
153b
153d1
155a1
L1
137
153
155
155a2
136
110a
110

(b)

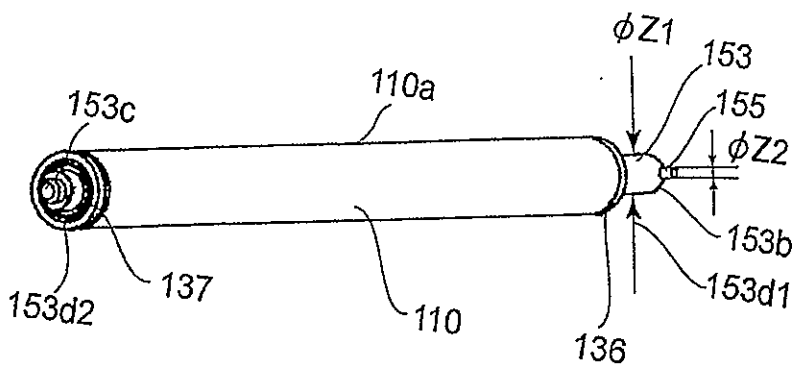

ϕZ1
153
155
ϕZ2
153c
110a
153b
153d1
153d2
137
110
136

FIG.5

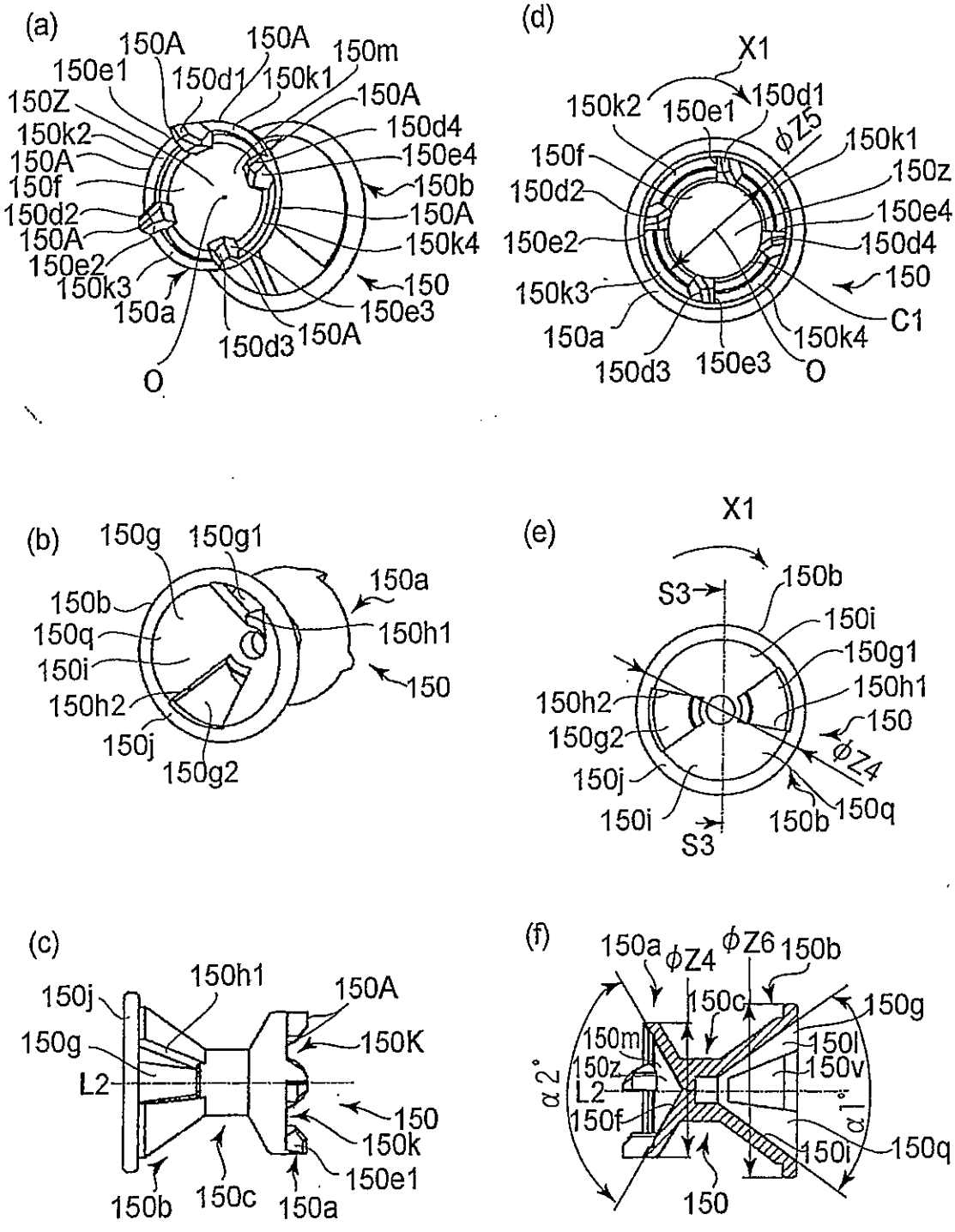

(a)
150A
150A
150m
150e1
150d1
150k1
150Z
150A
150k2
150d4
150A
150e4
150f
150b
150d2
150A
150A
150k4
150e2
150k3
150
150a
150e3
150d3
150A
O
(d)
X1
150k2
150e1
150d1
φZ5
150k1
150f
150z
150d2
150e4
150e2
150d4
150
150k3
C1
150a
150k4
150d3
150e3
O
(b)
150g
150g1
150a
150b
150h1
150q
150
150i
150h2
150j
150g2
(e)
X1
S3
150b
150i
150g1
150h1
150h2
150
150g2
φZ4
150j
150q
150i
150b
S3
(c)
150h1
150j
150A
150g
150K
L2
150
150k
150e1
150b
150c
150a
(f)
150a
φZ4
φZ6
150b
150c
150g
150m
150l
150z
150v
α2°
L2
α1°
150f
150q
150i
150

FIG.6

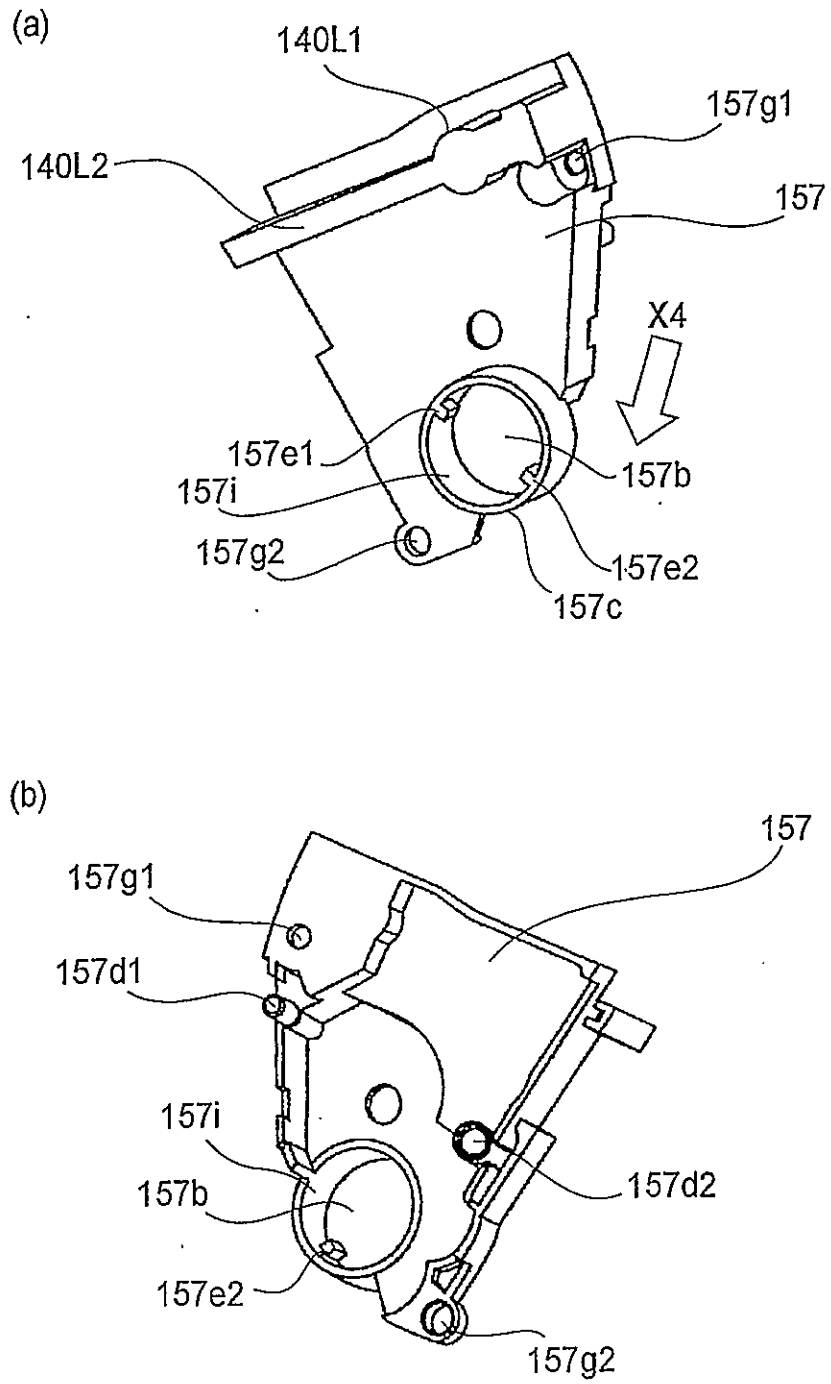

(a)
140L1
157g1
140L2
157
X4
157e1
157b
157i
157g2
157e2
157c
(b)
157
157g1
157d1
157i
157b
157d2
157e2
157g2

FIG.7

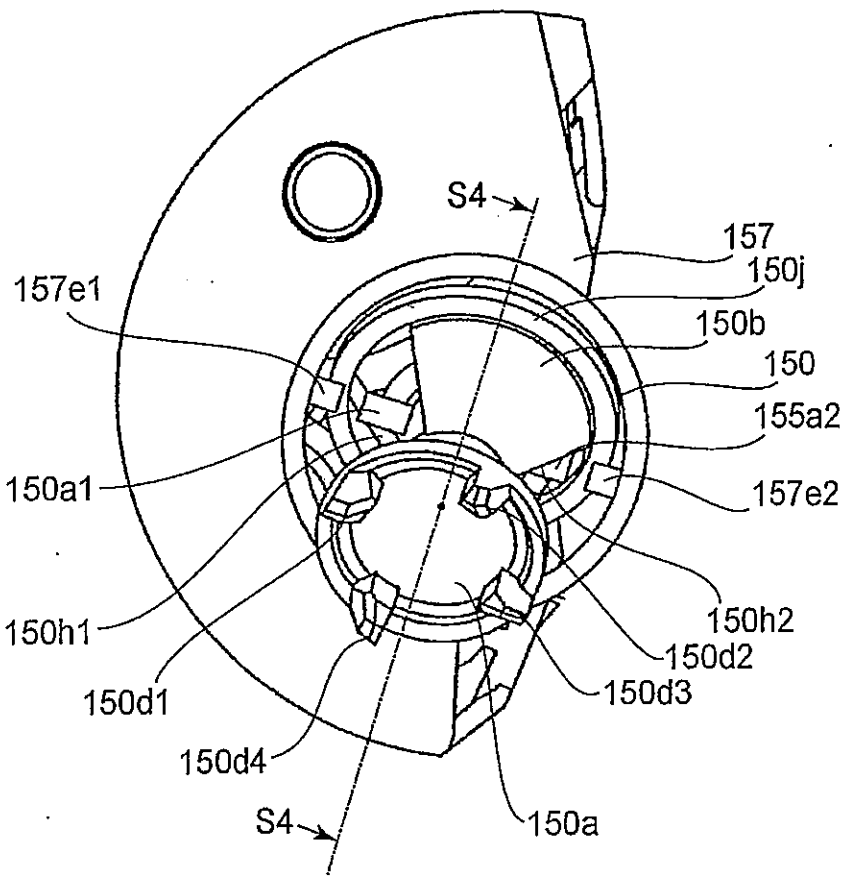

S4
157
150j
157e1
150b
150
155a2
150a1
157e2
150h2
150h1
150d2
150d3
150d1
150d4
S4
150a

FIG.8

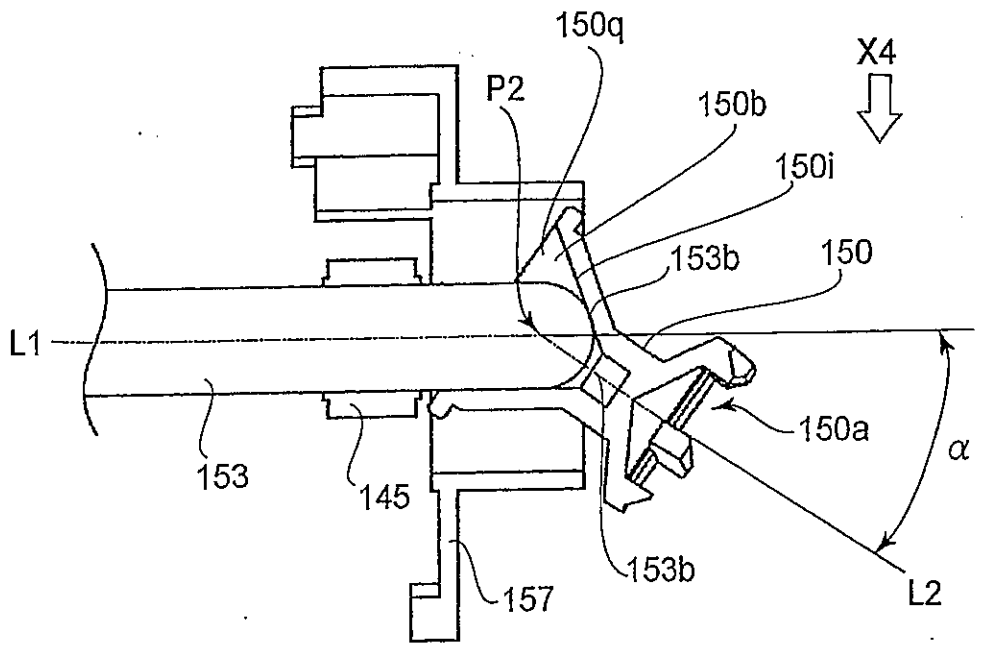


FIG.9

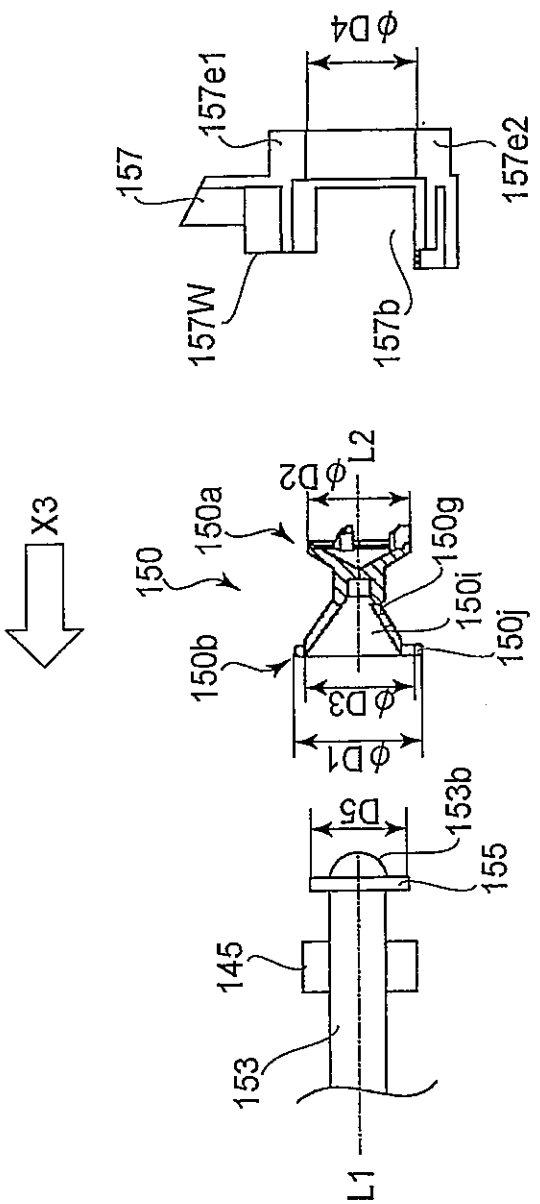

X3
157
157e1
φD4
157e2
157W
157b
150
150a
φD2
L2
150g
150i
150j
150b
φD3
φD1
153b
D5
155
145
153
L1

FIG.10

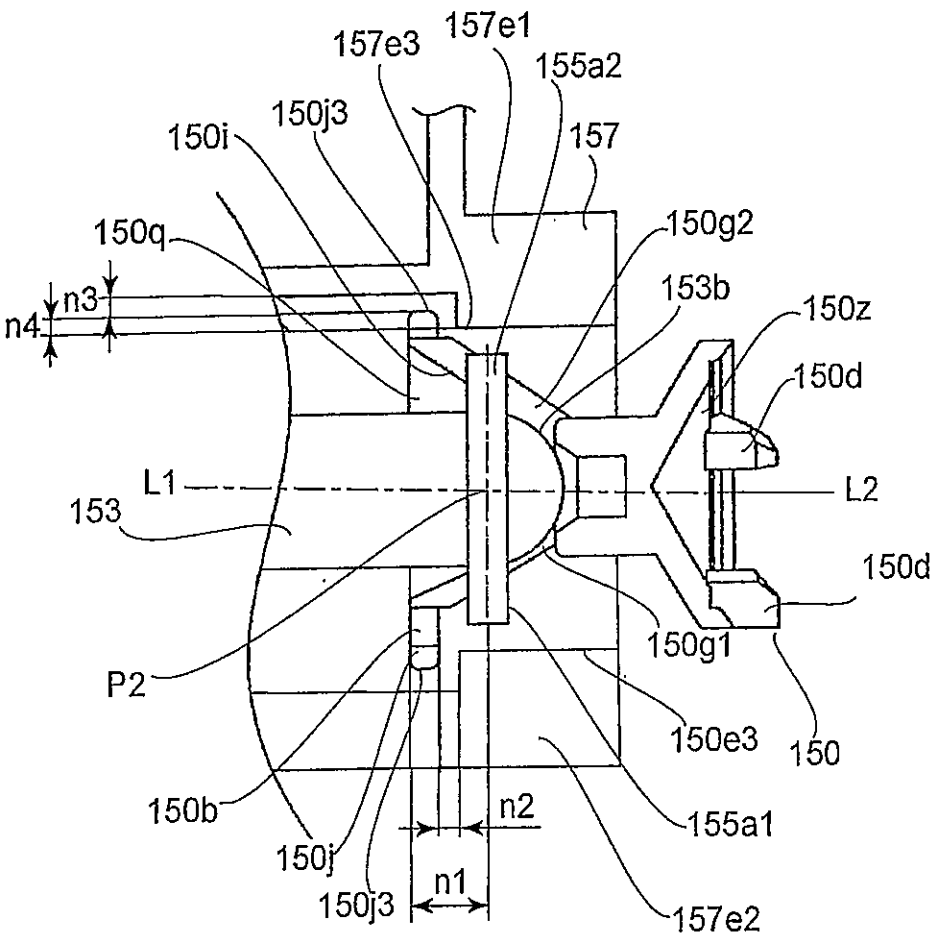

157e3
157e1
155a2
150j3
150i
157
150q
150g2
n3
153b
150z
n4
150d
L1
L2
153
150d
150g1
P2
150e3
150
150b
n2
155a1
150j
150j3
n1
157e2

FIG.11

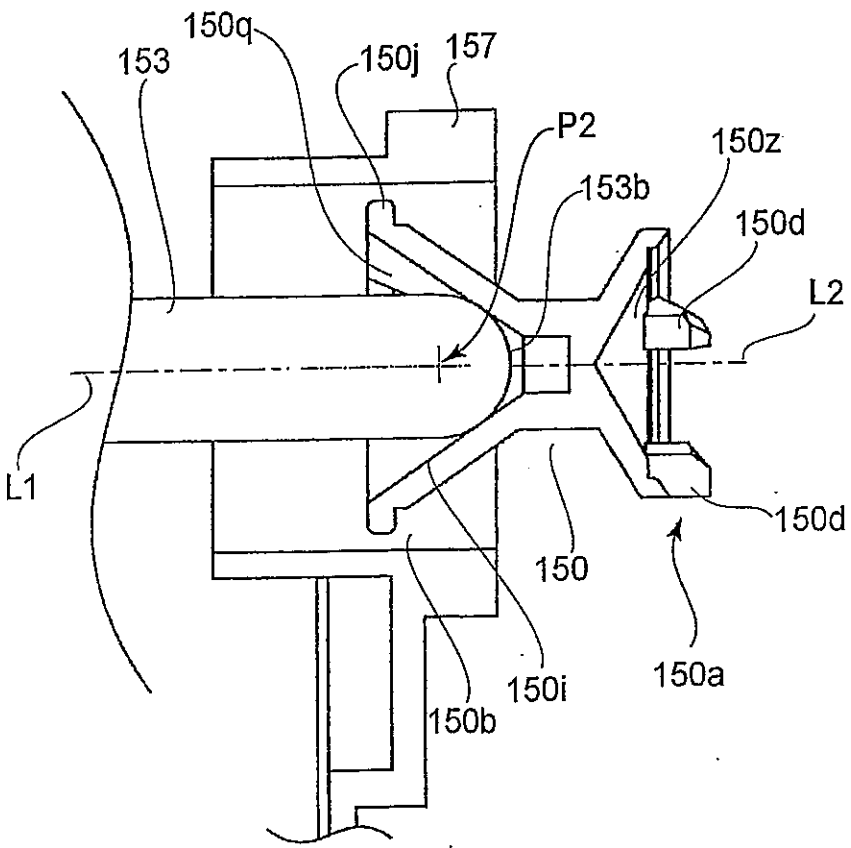

150q
153
150j
157
P2
150z
153b
150d
L2
L1
150d
150
150i
150a
150b

FIG.12

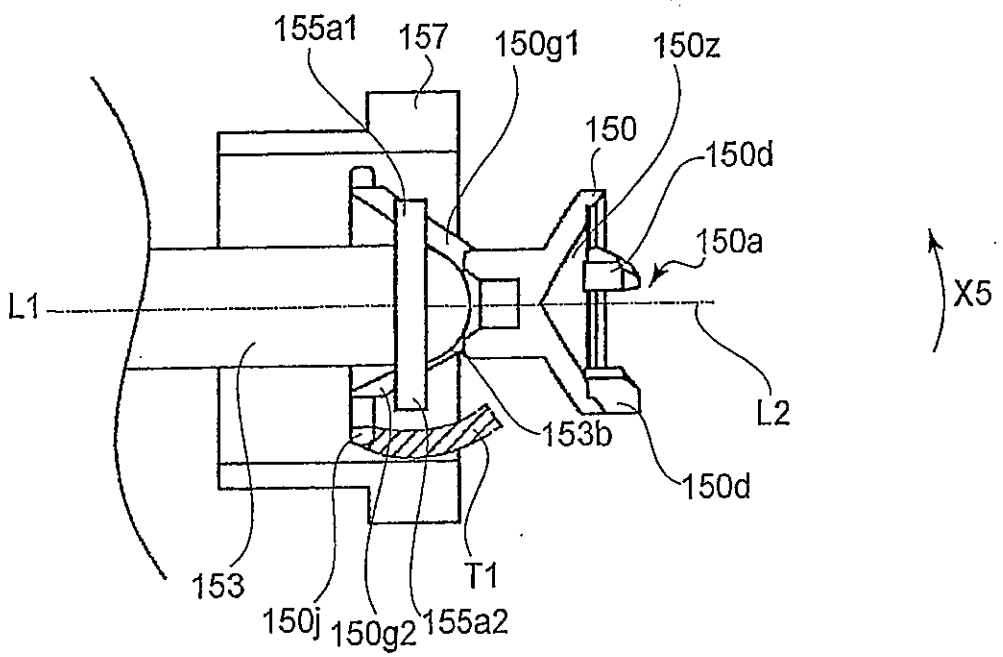

155a1
157
150g1
150z
150
150d
150a
L1
X5
L2
153b
150d
153
150j
150g2
155a2
T1

FIG.13

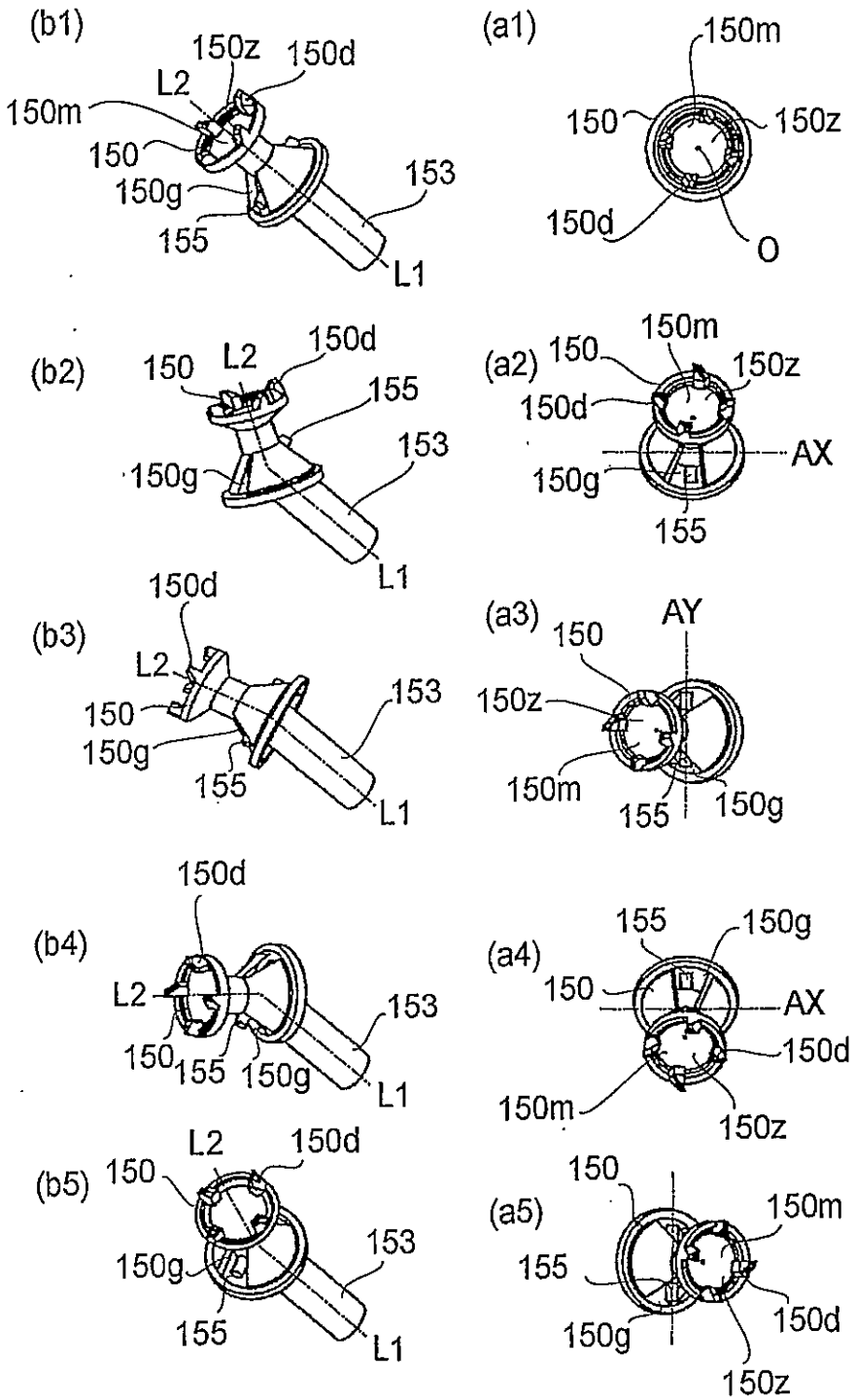

(b1)
150z
150d
L2
150m
150
153
150g
155
L1
(a1)
150m
150
150z
150d
O
(b2)
150
L2
150d
155
153
150g
L1
(a2)
150m
150
150z
150d
AX
150g
155
(b3)
150d
L2
153
150
150g
155
L1
(a3)
AY
150
150z
150m
155
150g
(b4)
150d
L2
153
150
155
150g
L1
(a4)
155
150g
150
AX
150d
150m
150z
(b5)
L2
150d
150
153
150g
155
L1
(a5)
150
150m
155
150d
150g
150z

FIG.14

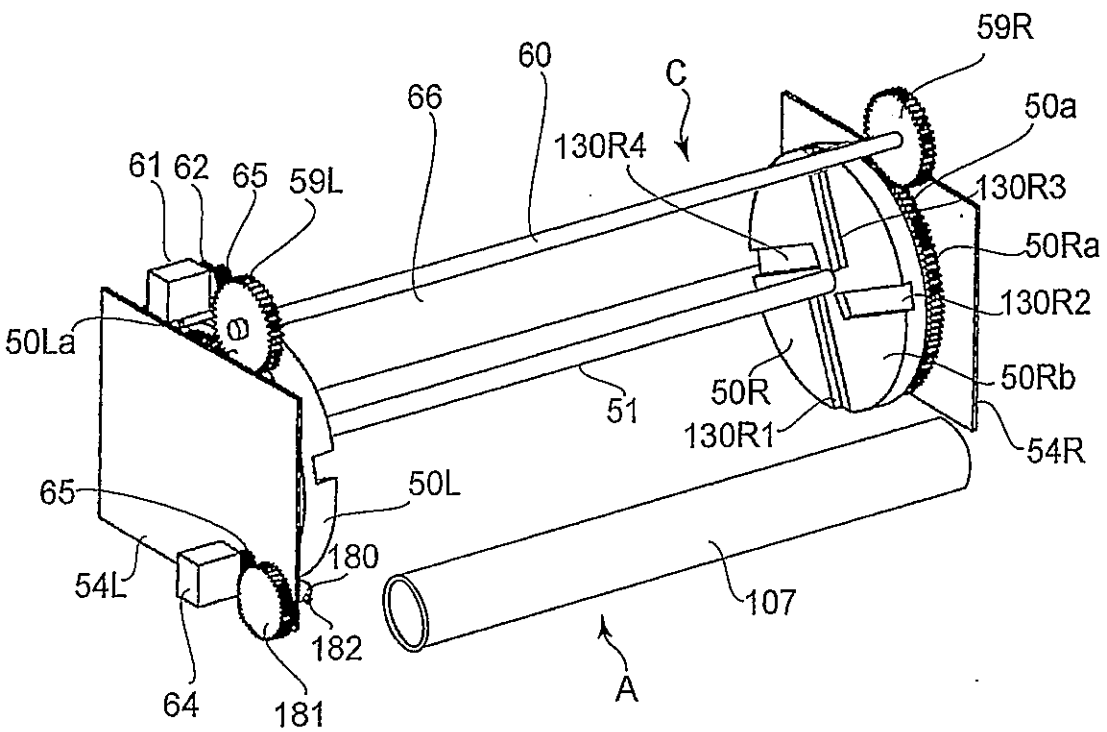

59R
60
C
66
50a
130R4
61
62
65
59L
130R3
50Ra
130R2
50La
50R
50Rb
51
130R1
54R
65
50L
180
54L
107
182
64
181
A

FIG.15

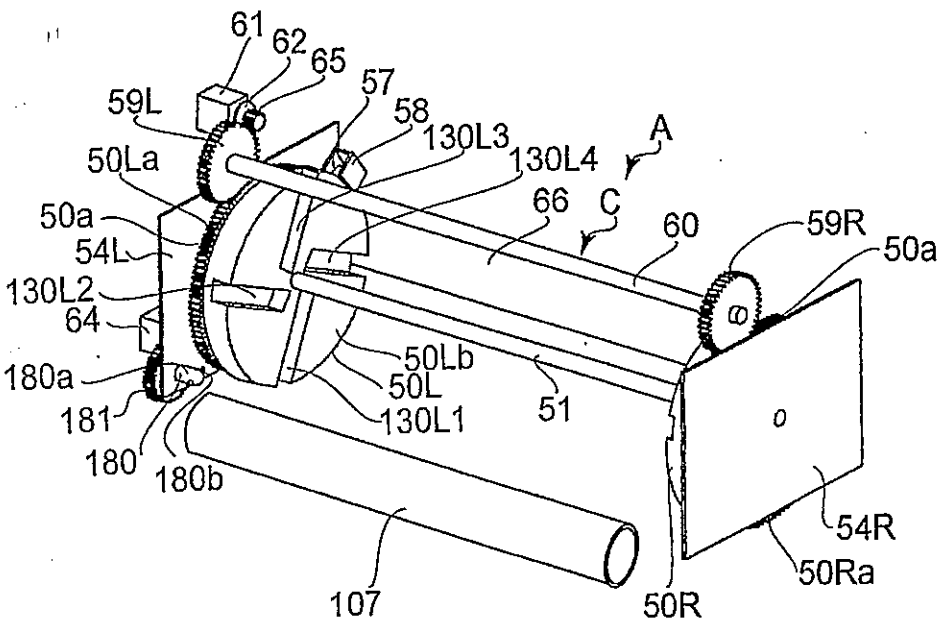

61
62
65
57
58
59L
130L3
130L4
A
50La
66
C
60
59R
50a
50a
54L
130L2
64
180a
181
180
180b
50Lb
50L
130L1
51
107
50R
54R
50Ra

FIG.16

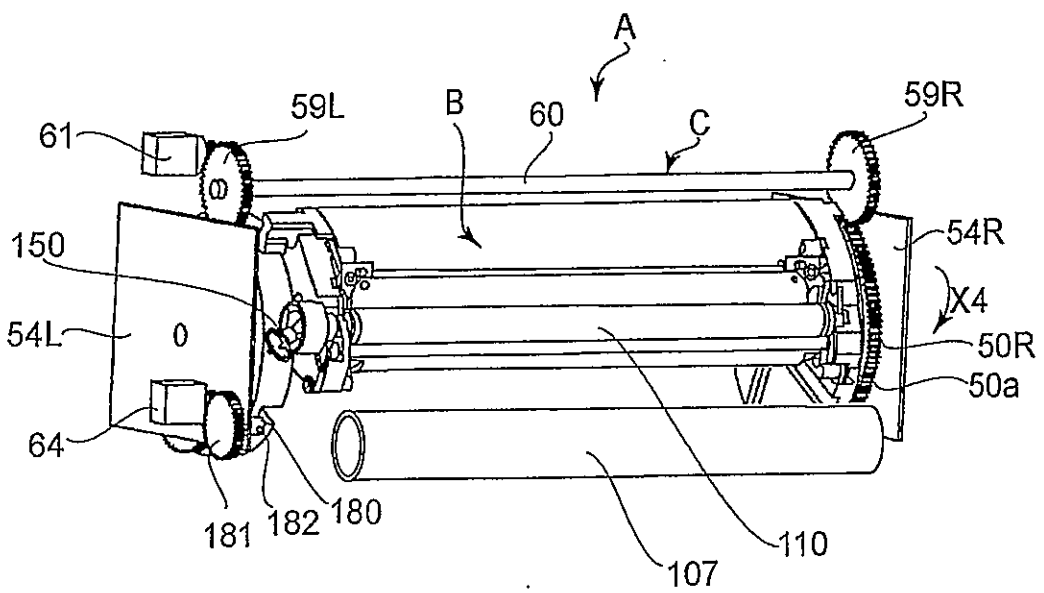


FIG.17

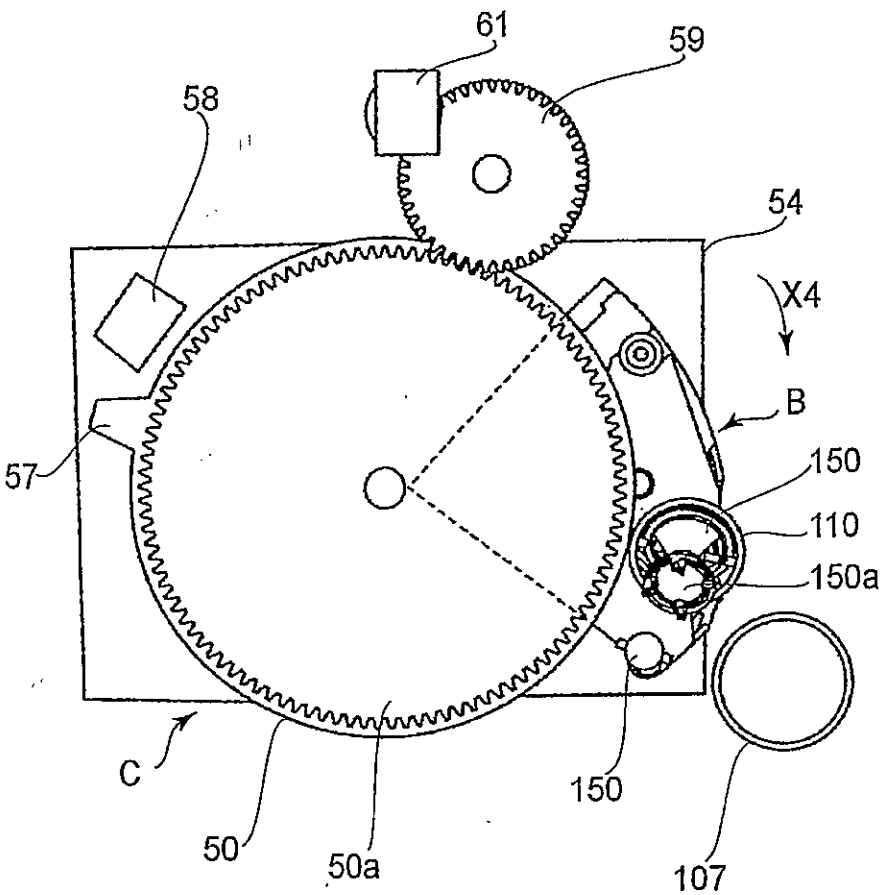


FIG.18

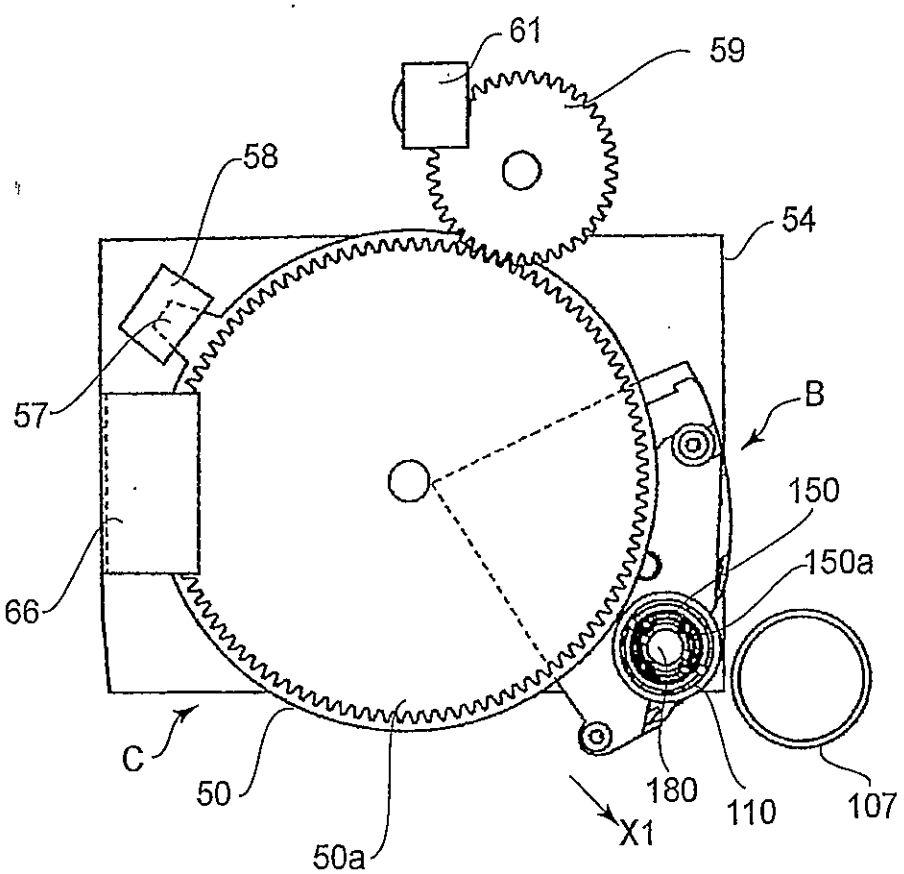


FIG.19

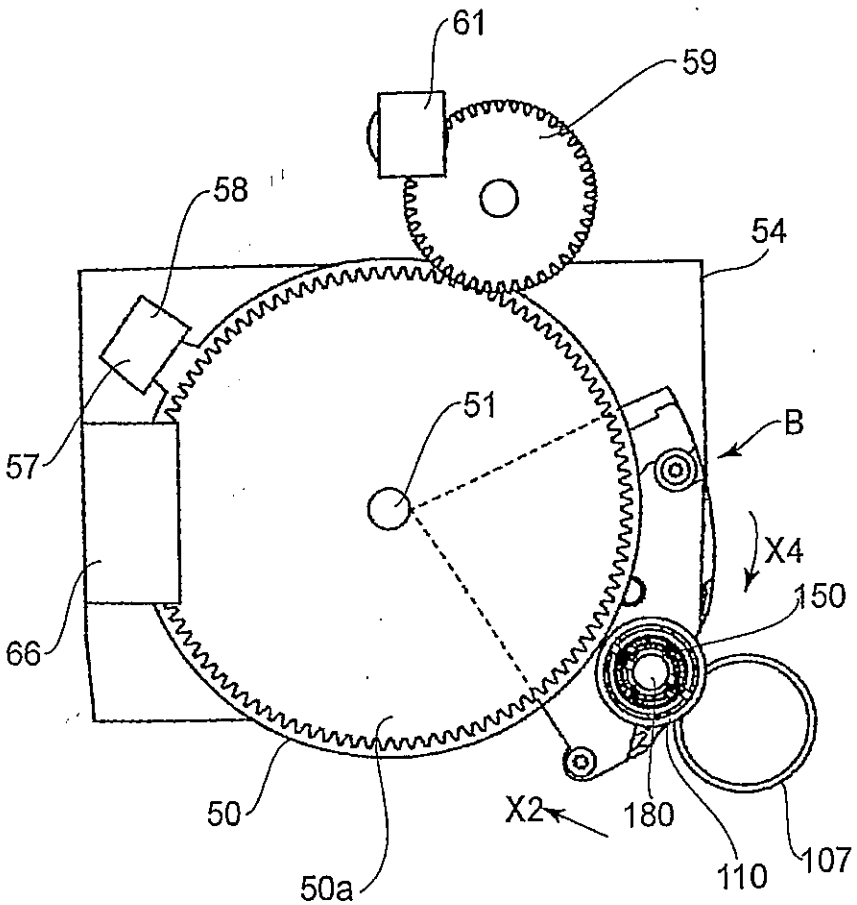


FIG.20

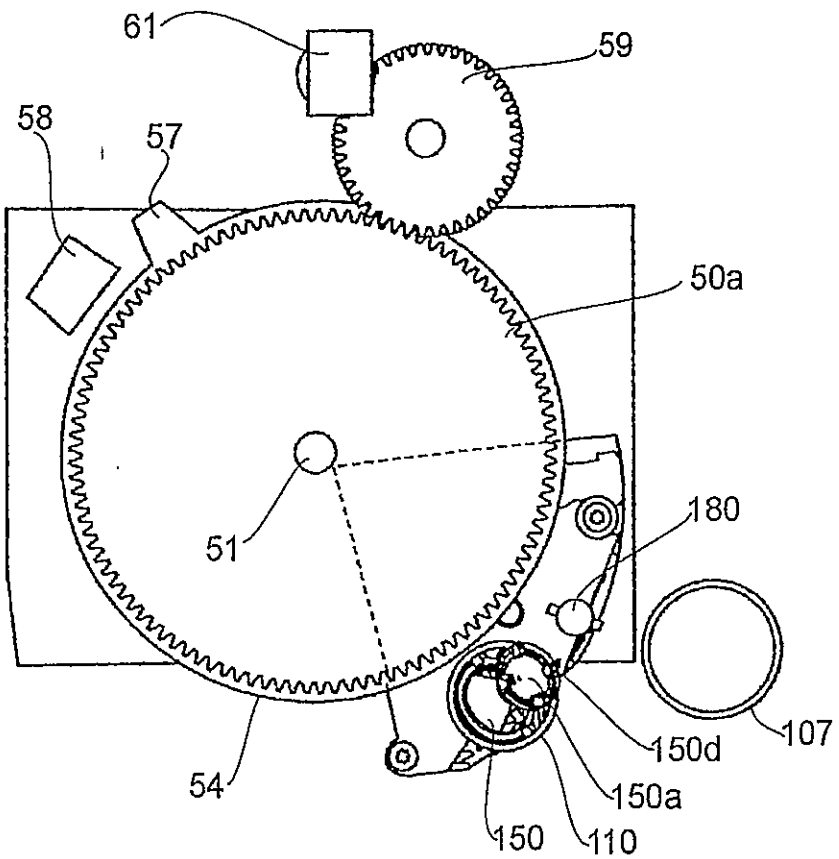


FIG.21

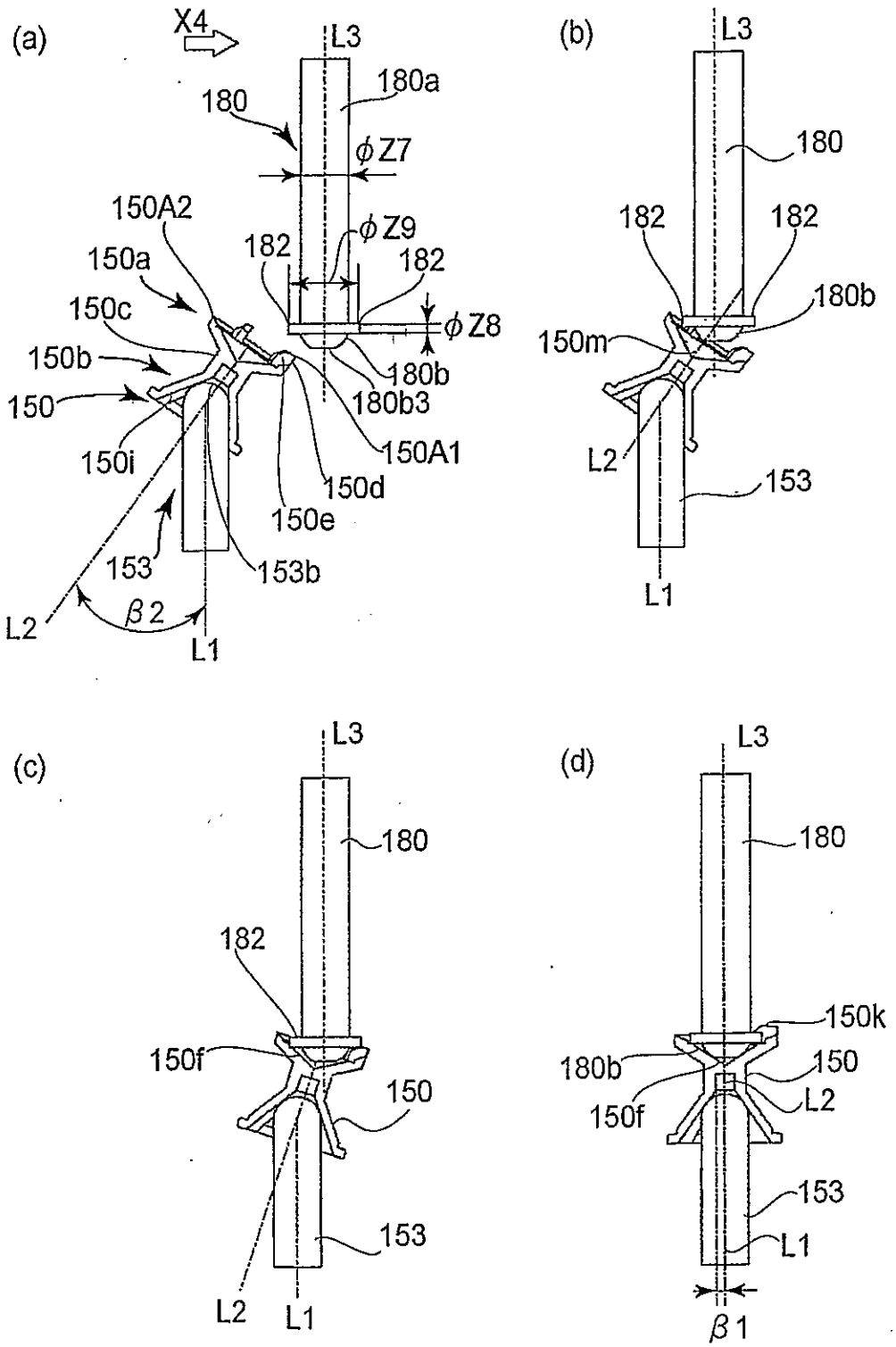

(a)
X4
L3
180
180a
φZ7
150A2
φZ9
182
182
150a
150c
φZ8
150b
180b
150
180b3
150A1
150i
150d
150e
153
153b
L2
β2
L1
(b)
L3
180
182
182
180b
150m
L2
153
L1
(c)
L3
180
182
150f
150
153
L2
L1
(d)
L3
180
150k
180b
150
150f
L2
153
L1
β1

FIG.22

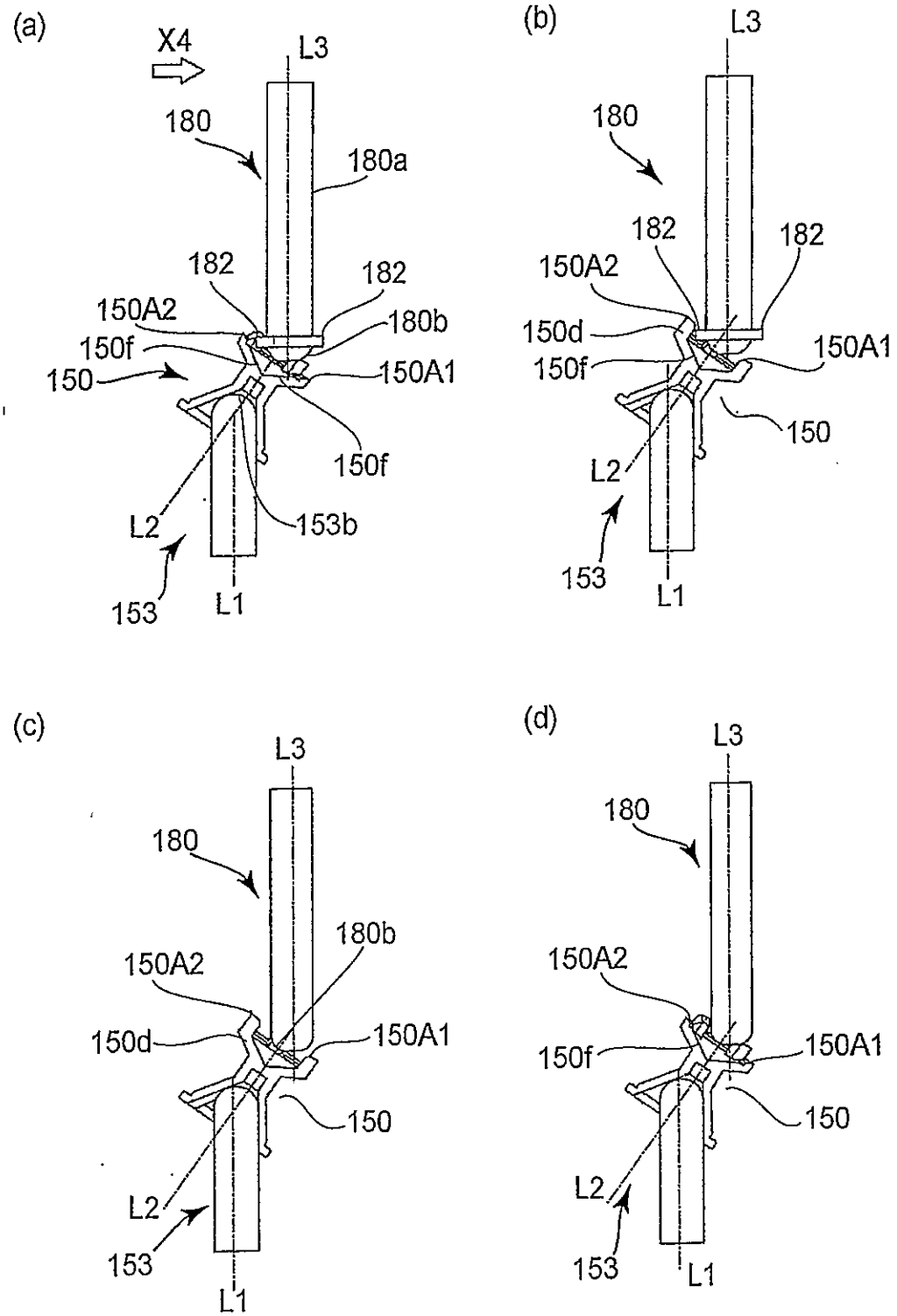

(a)
X4
L3
180
180a
182
182
150A2
180b
150f
150
150A1
150f
L2
153b
153
L1
(b)
L3
180
182
182
150A2
150d
150A1
150f
150
L2
153
L1
(c)
L3
180
180b
150A2
150d
150A1
150
L2
153
L1
(d)
L3
180
150A2
150f
150A1
150
L2
153
L1

FIG.23

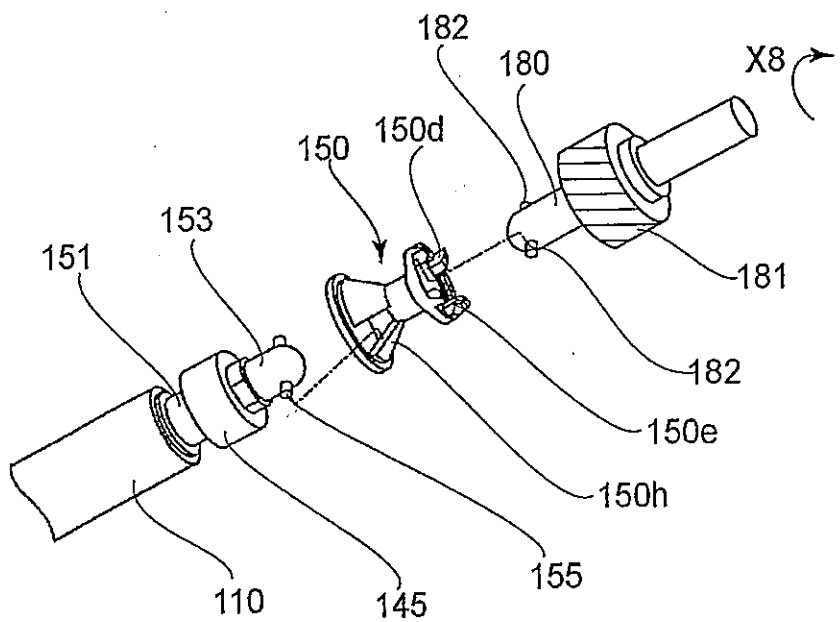


FIG.24

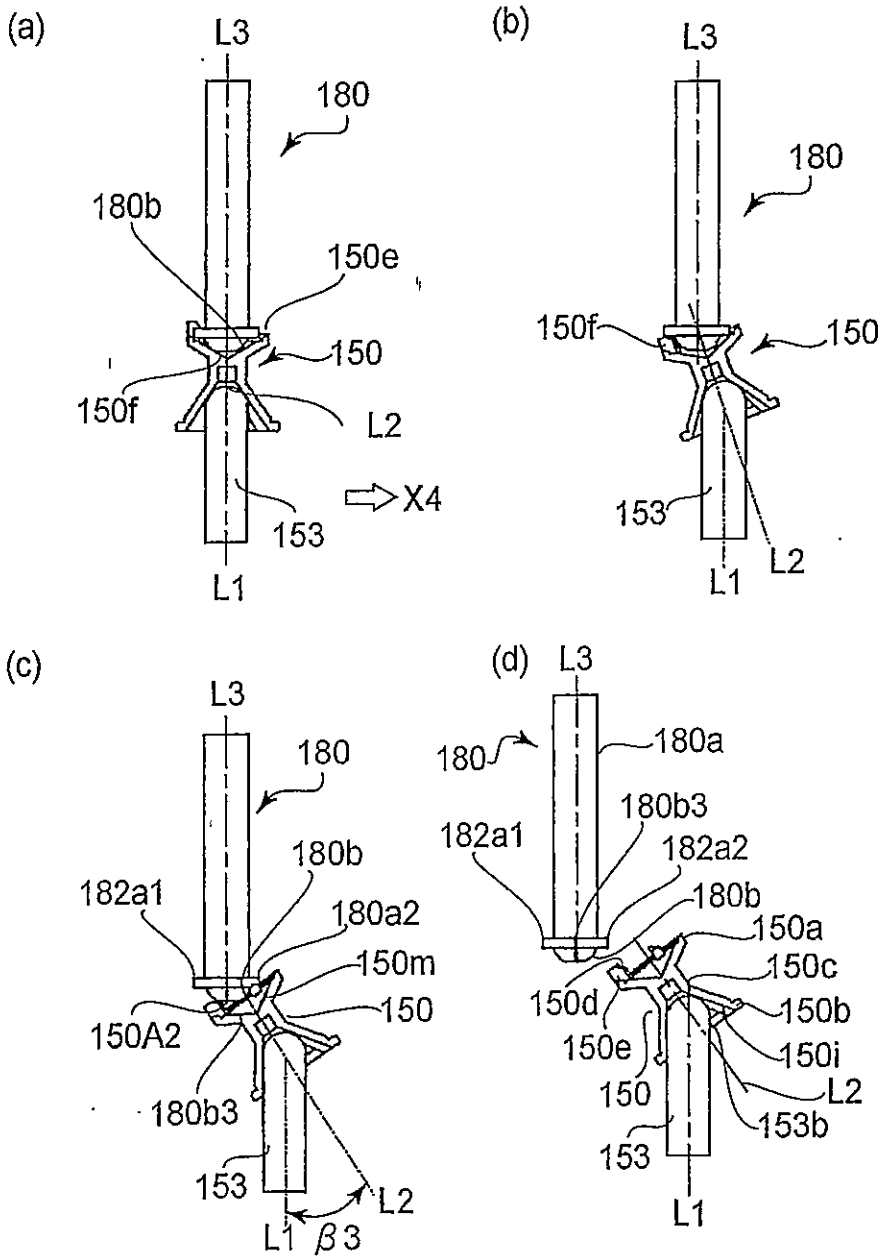

(a)
L3
180
180b
150e
150
150f
L2
X4
153
L1
(b)
L3
180
150f
150
153
L2
L1
(c)
L3
180
180b
182a1
180a2
150m
150
150A2
180b3
153
L2
L1
β3
(d)
L3
180
180a
180b3
182a1
182a2
180b
150a
150c
150d
150b
150e
150i
150
L2
153b
153
L1

FIG.25

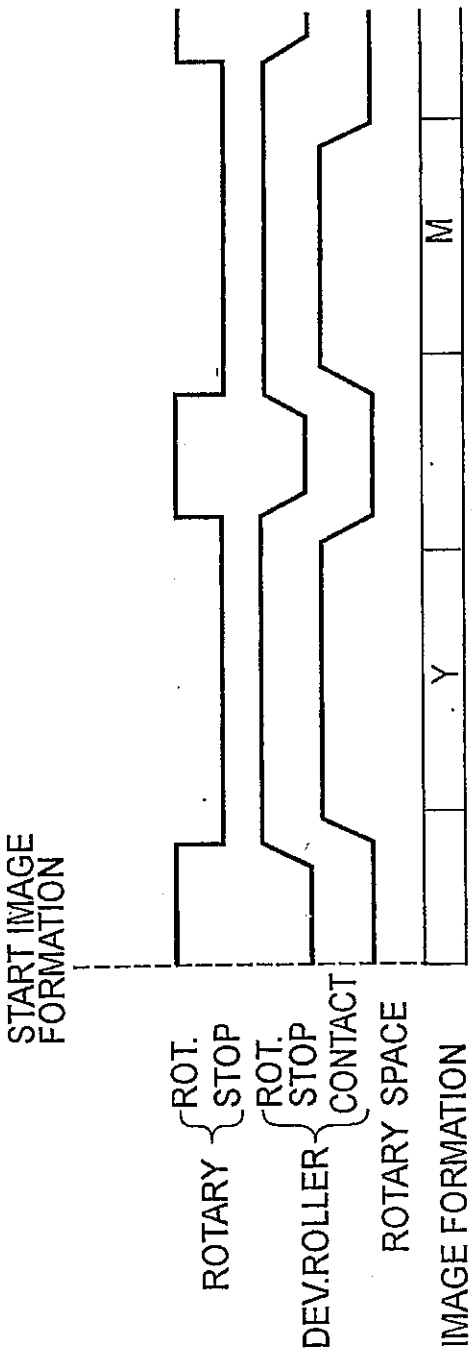

START IMAGE FORMATION
ROTARY
ROT. STOP
DEV.ROLLER
ROT. STOP
CONTACT
ROTARY SPACE
IMAGE FORMATION
Y
M

FIG.26

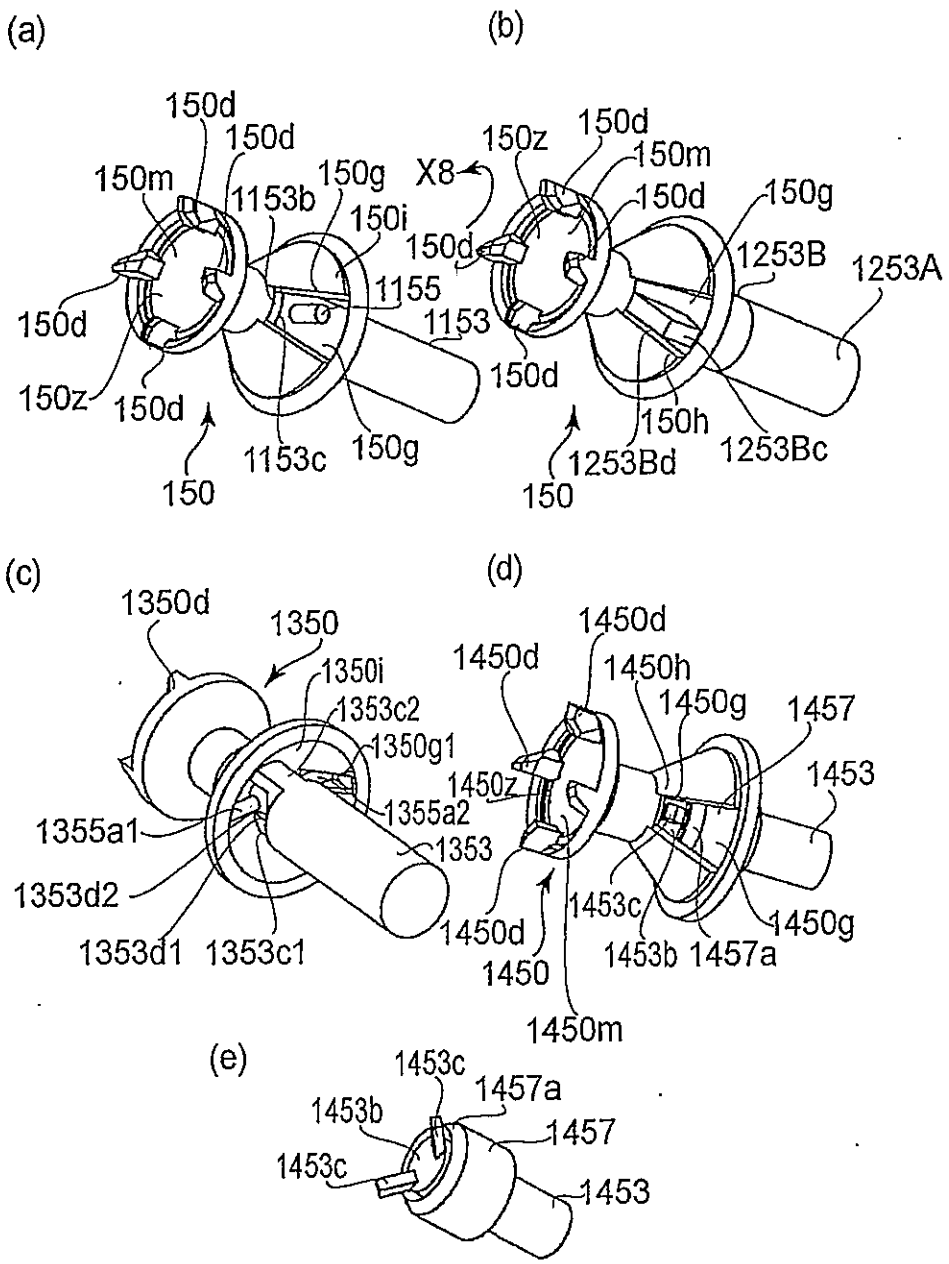

(a)
(b)
150d
150d
150m
1153b
150g
150i
150d
150z
150d
150m
X8
150d
150g
1253B
1253A
1155
1153
150d
150z
150d
150d
150h
1253Bc
1153c
150g
1253Bd
150
150
(c)
(d)
1350d
1350
1350i
1353c2
1350g1
1355a1
1355a2
1353
1353d2
1353d1
1353c1
1450d
1450d
1450h
1450g
1457
1453
1450z
1450d
1450
1453c
1453b
1457a
1450g
1450m
(e)
1453c
1457a
1453b
1457
1453c
1453

FIG.27

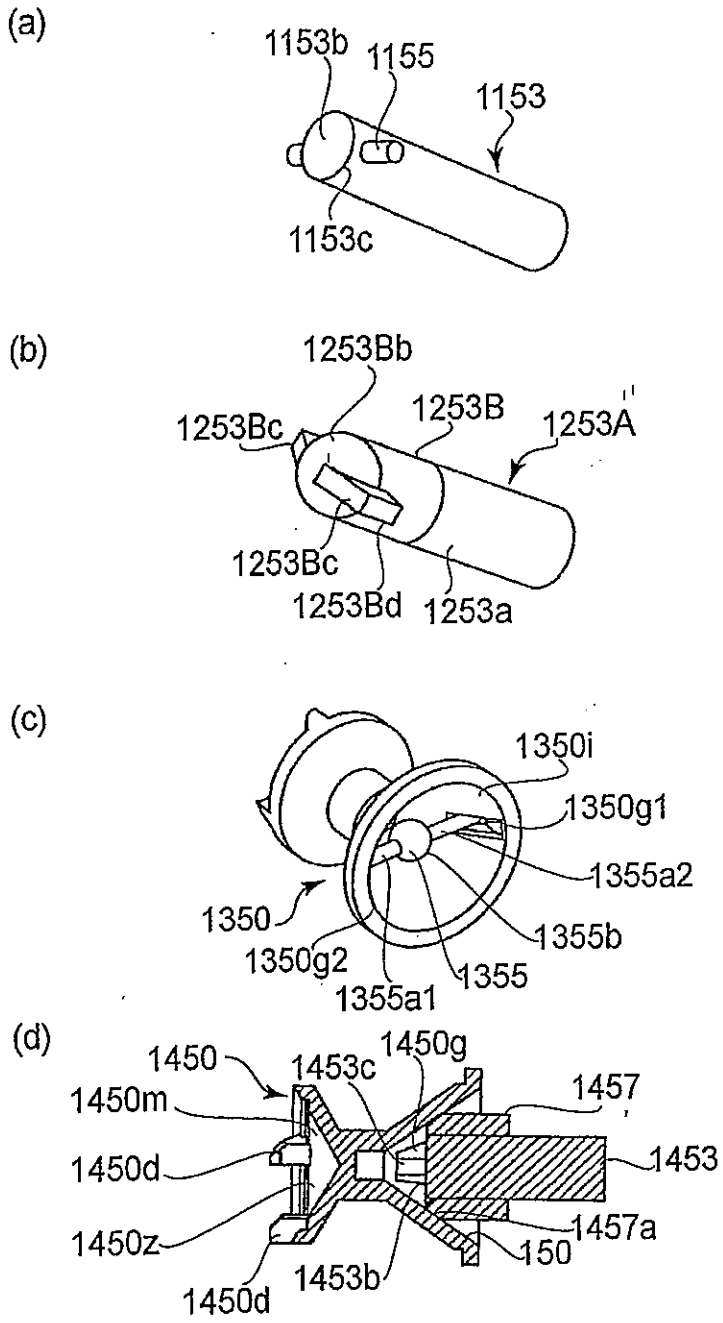

(a)
1153b
1155
1153
1153c
(b)
1253Bb
1253B
1253A
1253Bc
1253Bc
1253Bd
1253a
(c)
1350i
1350g1
1355a2
1350
1355b
1350g2
1355
1355a1
(d)
1450
1453c
1450g
1457
1450m
1453
1450d
1457a
1450z
150
1453b
1450d

FIG.28

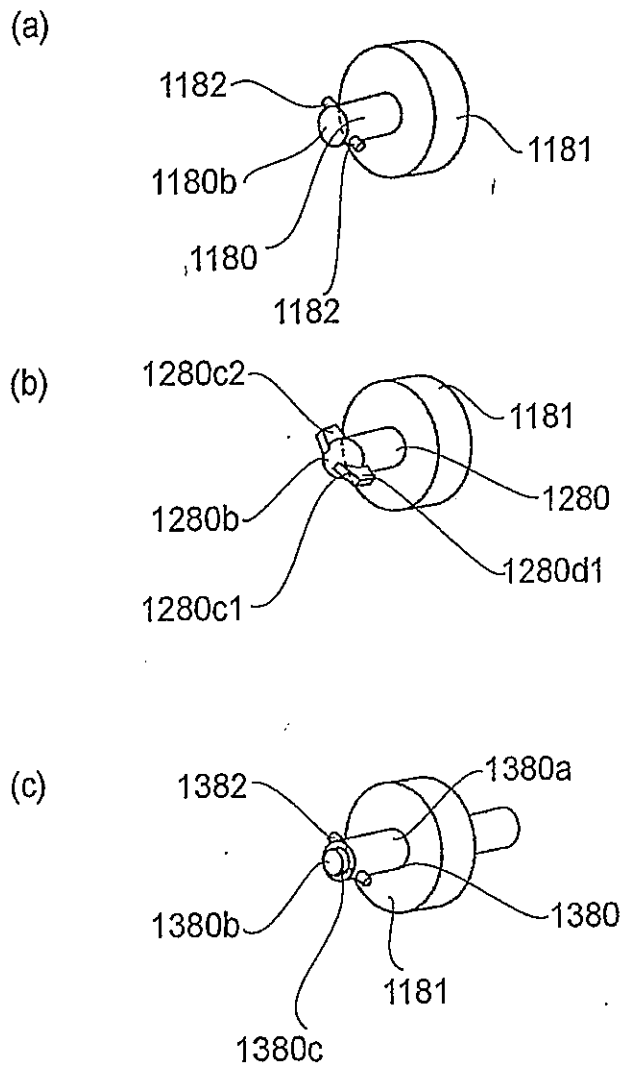

(a)
1182
1180b
1180
1182
1181
(b)
1280c2
1280b
1280c1
1181
1280
1280d1
(c)
1382
1380b
1380c
1380a
1380
1181

FIG.29

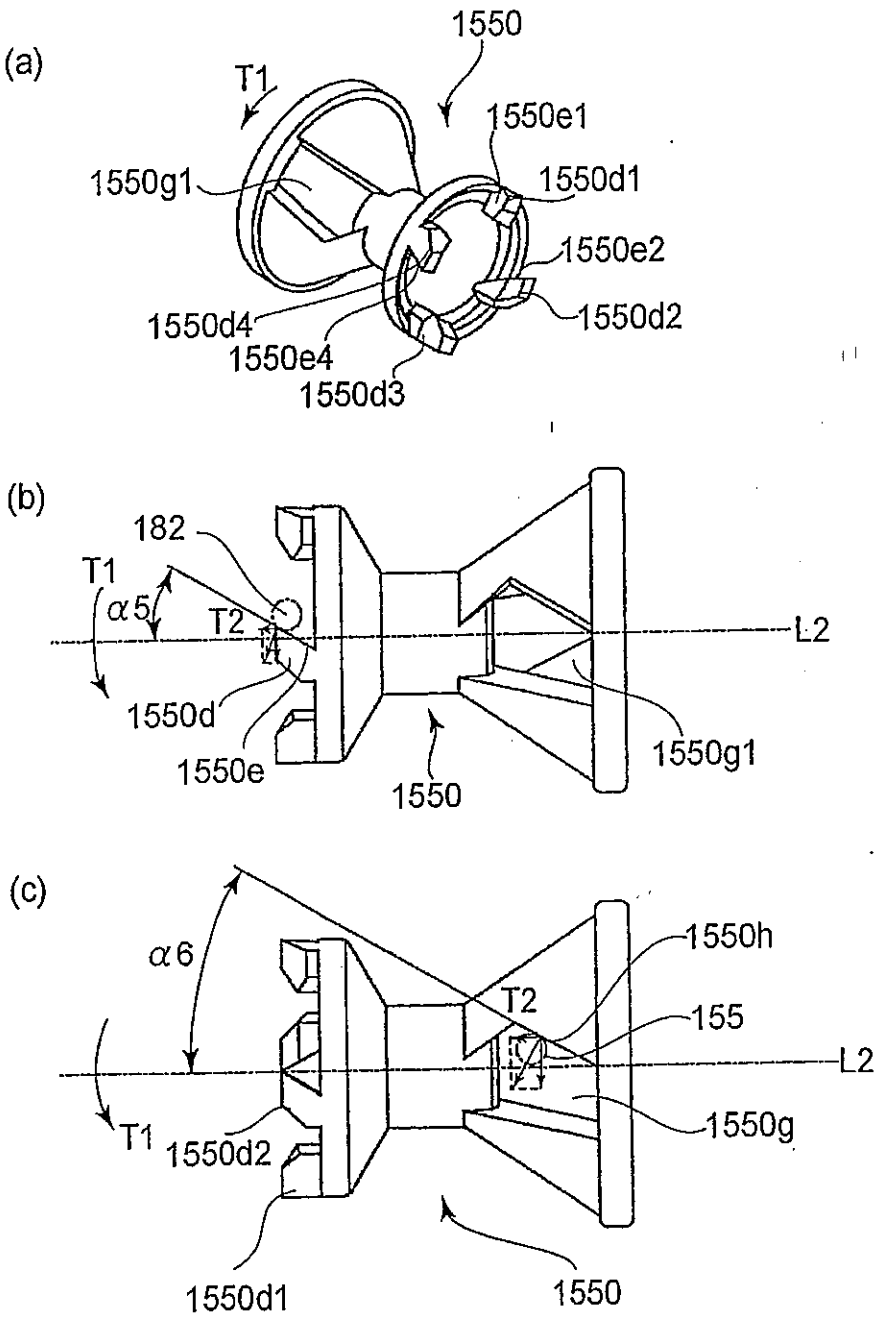

(a)
1550
T1
1550e1
1550g1
1550d1
1550e2
1550d4
1550d2
1550e4
1550d3
(b)
182
T1
α5
T2
L2
1550d
1550e
1550
1550g1
(c)
α6
1550h
T2
155
L2
T1
1550d2
1550g
1550d1
1550

FIG.30

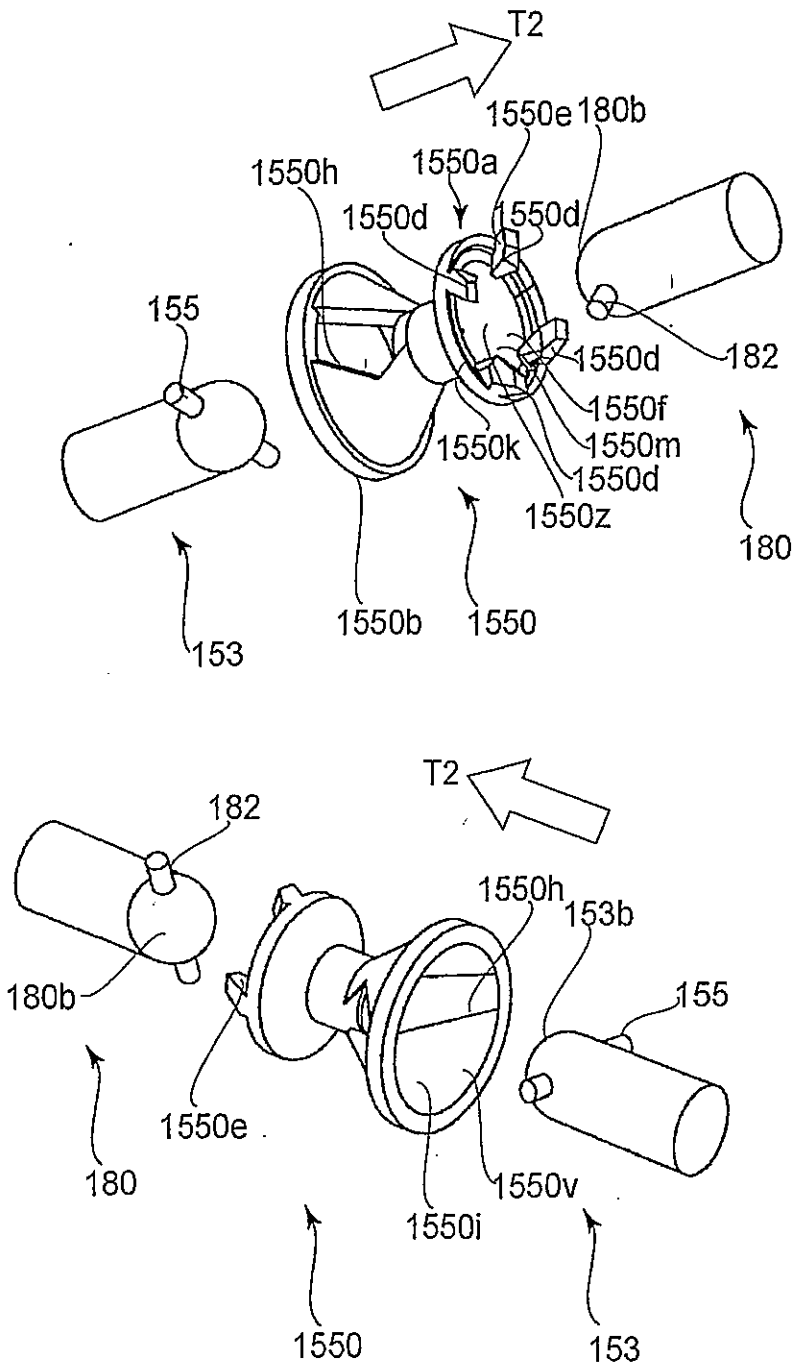

T2
1550e
180b
1550h
1550a
1550d
1550d
155
1550d
182
1550f
1550k
1550m
1550d
1550z
180
153
1550b
1550
T2
182
1550h
153b
180b
155
1550e
180
1550v
1550i
1550
153

FIG.31

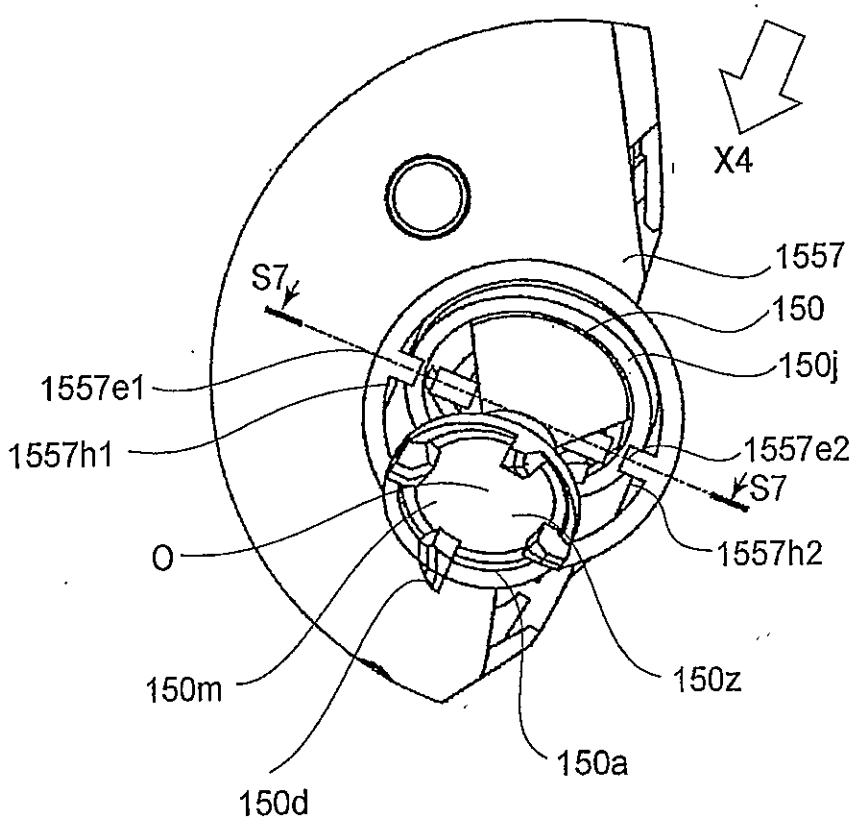

X4
1557
S7
150
150j
1557e1
1557h1
1557e2
S7
O
1557h2
150m
150z
150a
150d

FIG.32

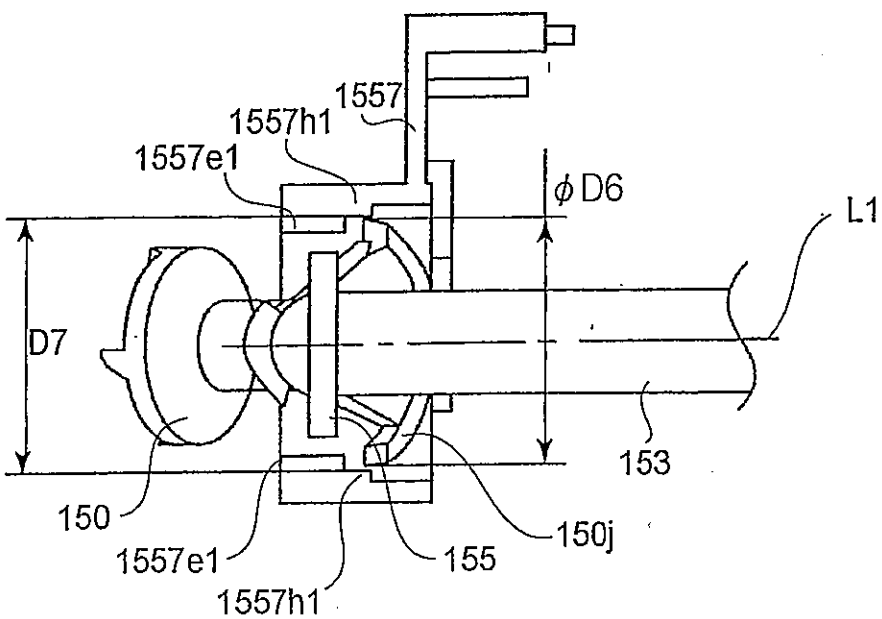


FIG.33

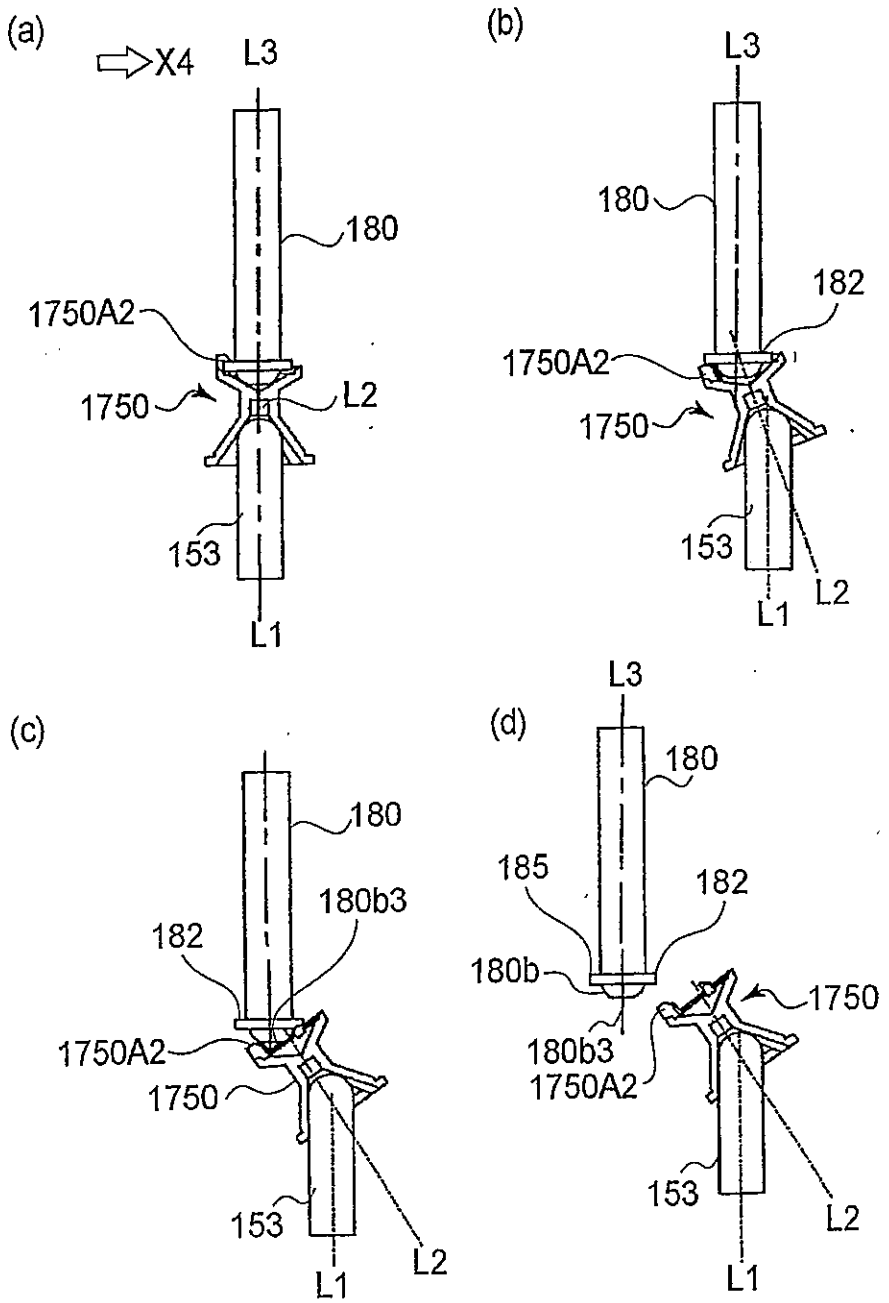

(a)
X4
L3
180
1750A2
1750
L2
153
L1
(b)
L3
180
182
1750A2
1750
153
L1
L2
(c)
180
180b3
182
1750A2
1750
153
L1
L2
(d)
L3
180
185
182
180b
1750
180b3
1750A2
153
L2
L1

FIG.34

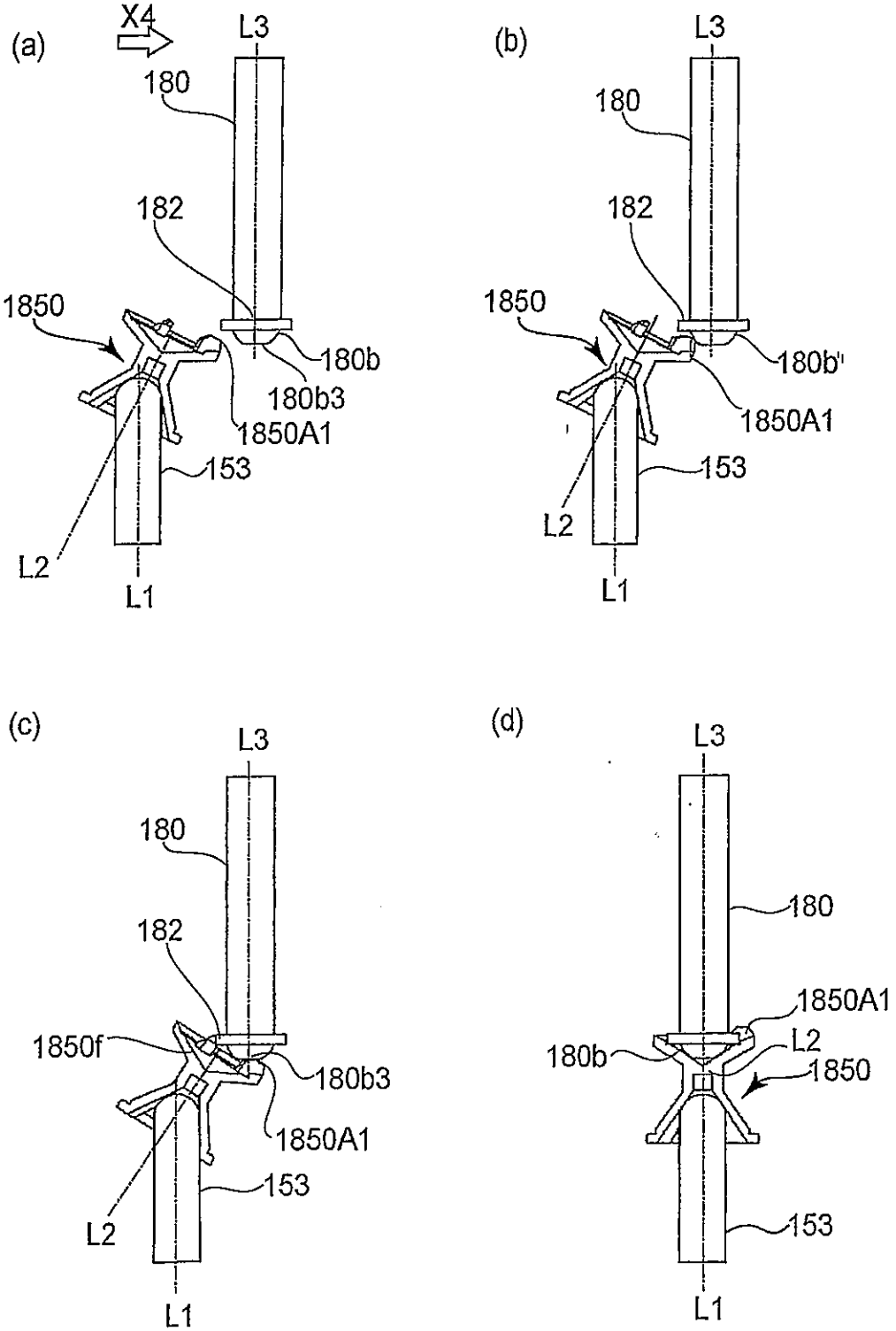

(a)
X4
L3
180
182
1850
180b
180b3
1850A1
153
L2
L1
(b)
L3
180
182
1850
180b
1850A1
153
L2
L1
(c)
L3
180
182
1850f
180b3
1850A1
153
L2
L1
(d)
L3
180
1850A1
L2
180b
1850
153
L1

FIG.35

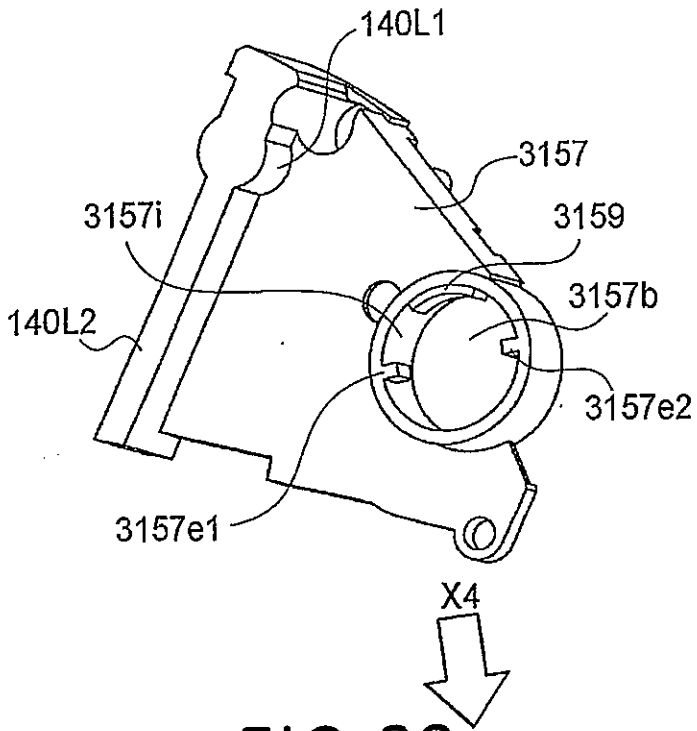

140L1
3157
3157i
3159
3157b
140L2
3157e2
3157e1
X4

FIG.36

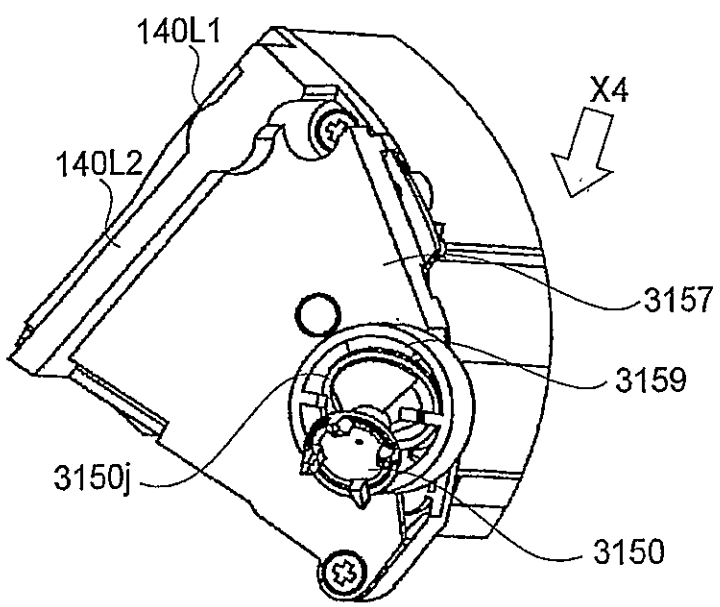

140L1
X4
140L2
3157
3159
3150j
3150

FIG.37

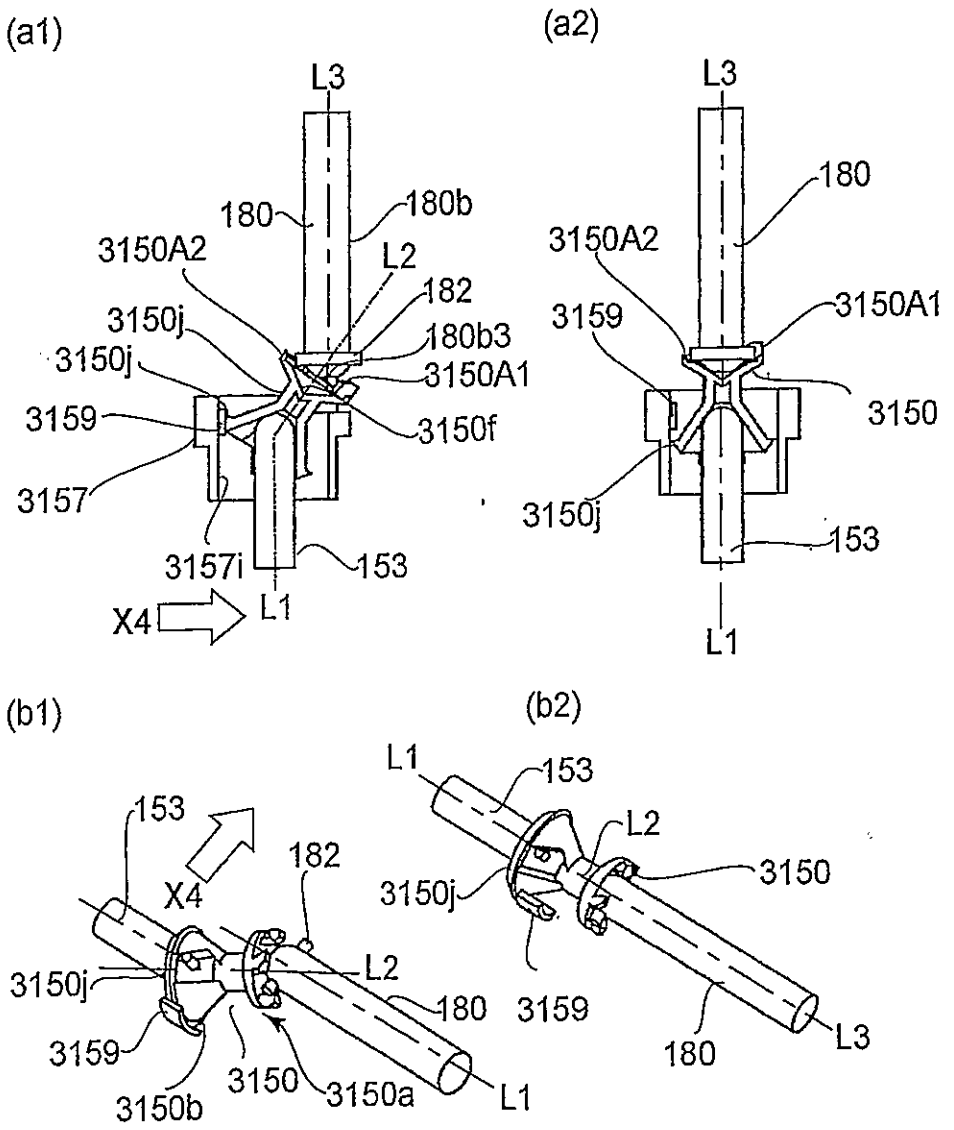

(a1)
L3
180
180b
3150A2
L2
182
3150j
180b3
3150j
3150A1
3159
3150f
3157
3157i
153
X4
L1
(a2)
L3
180
3150A2
3159
3150A1
3150
3150j
153
L1
(b1)
153
X4
182
3150j
L2
180
3159
3150
3150a
3150b
L1
(b2)
L1
153
L2
3150
3150j
3159
180
L3

FIG.38

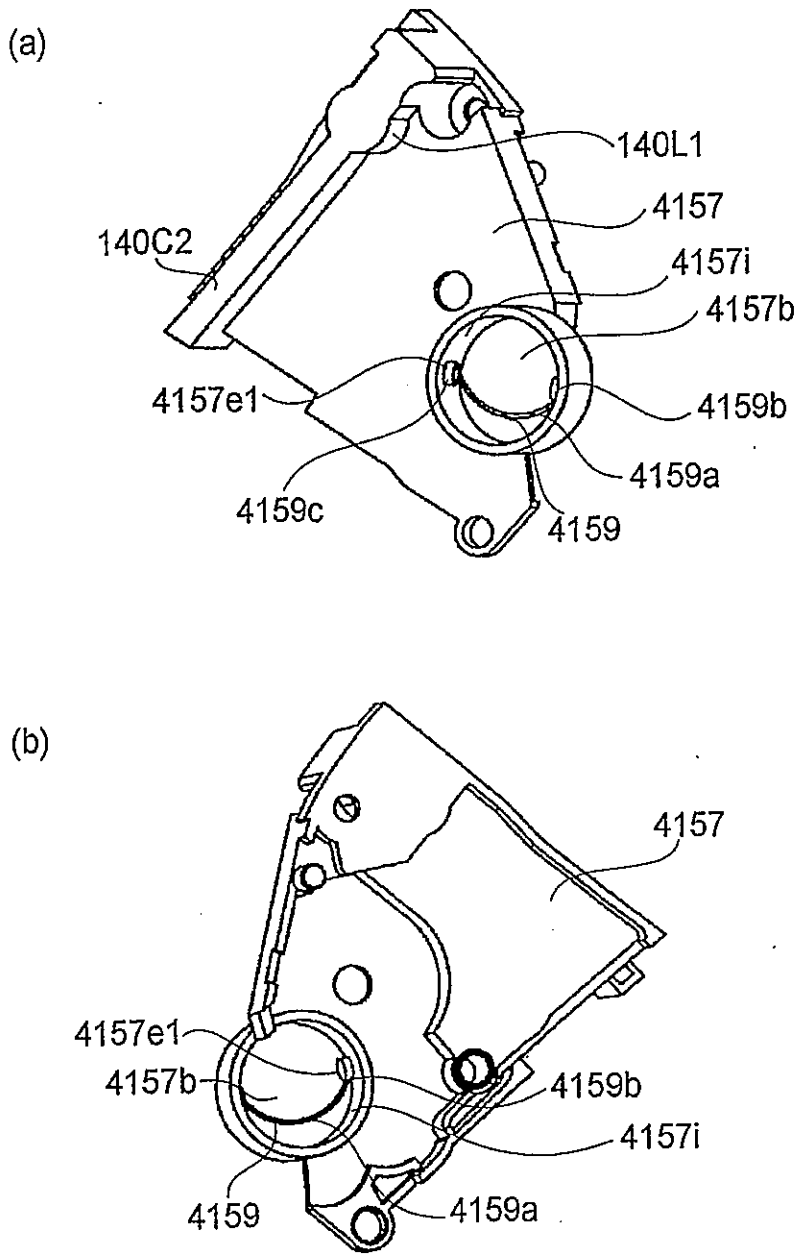

(a)
140L1
4157
140C2
4157i
4157b
4157e1
4159b
4159a
4159c
4159
(b)
4157
4157e1
4157b
4159b
4157i
4159
4159a

FIG.39

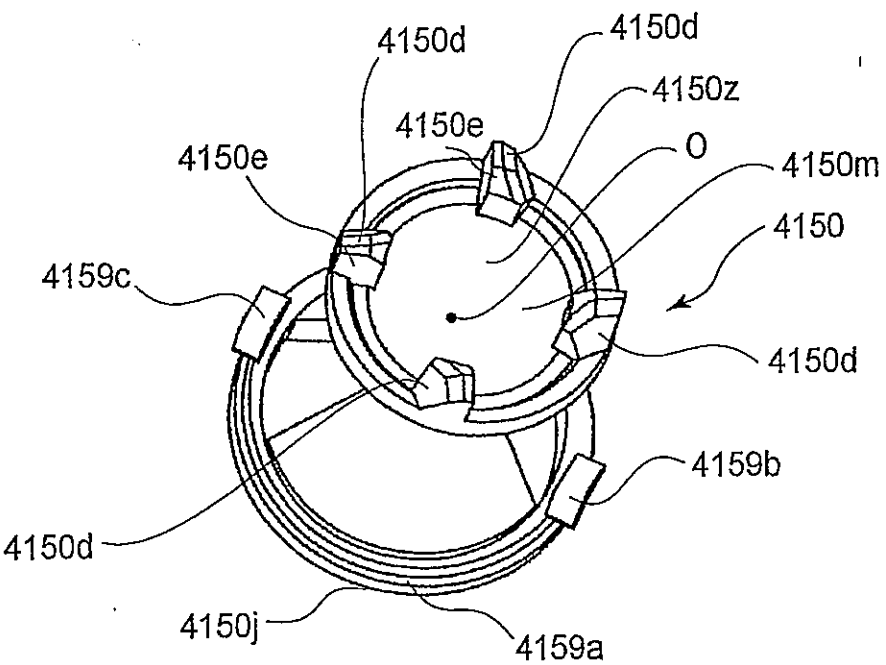

4150d
4150d
4150z
4150e
4150e
O
4150m
4150
4159c
4150d
4159b
4150d
4150j
4159a

FIG.40

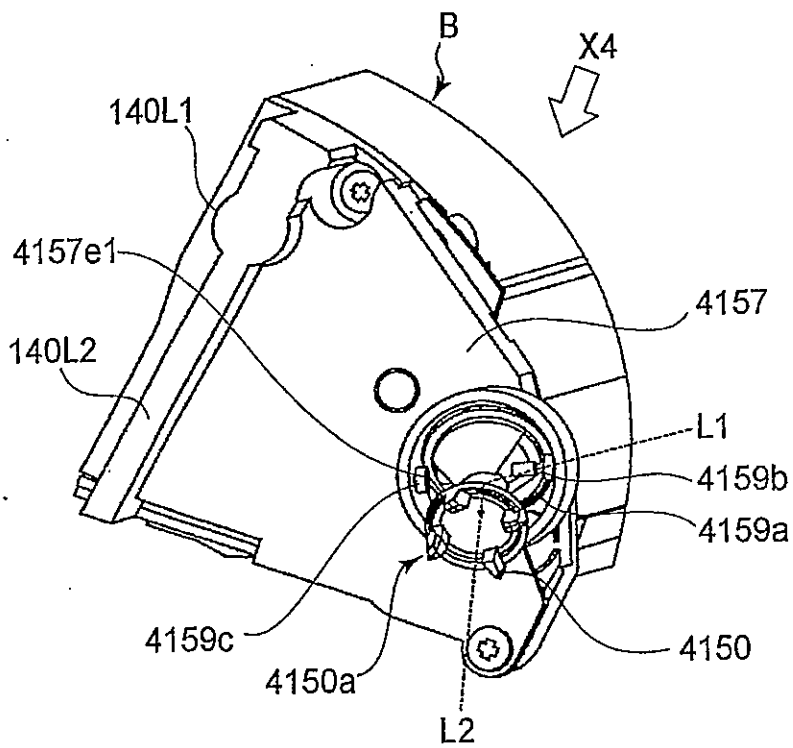

B
X4
140L1
4157e1
140L2
4157
L1
4159b
4159a
4159c
4150a
4150
L2

FIG.41

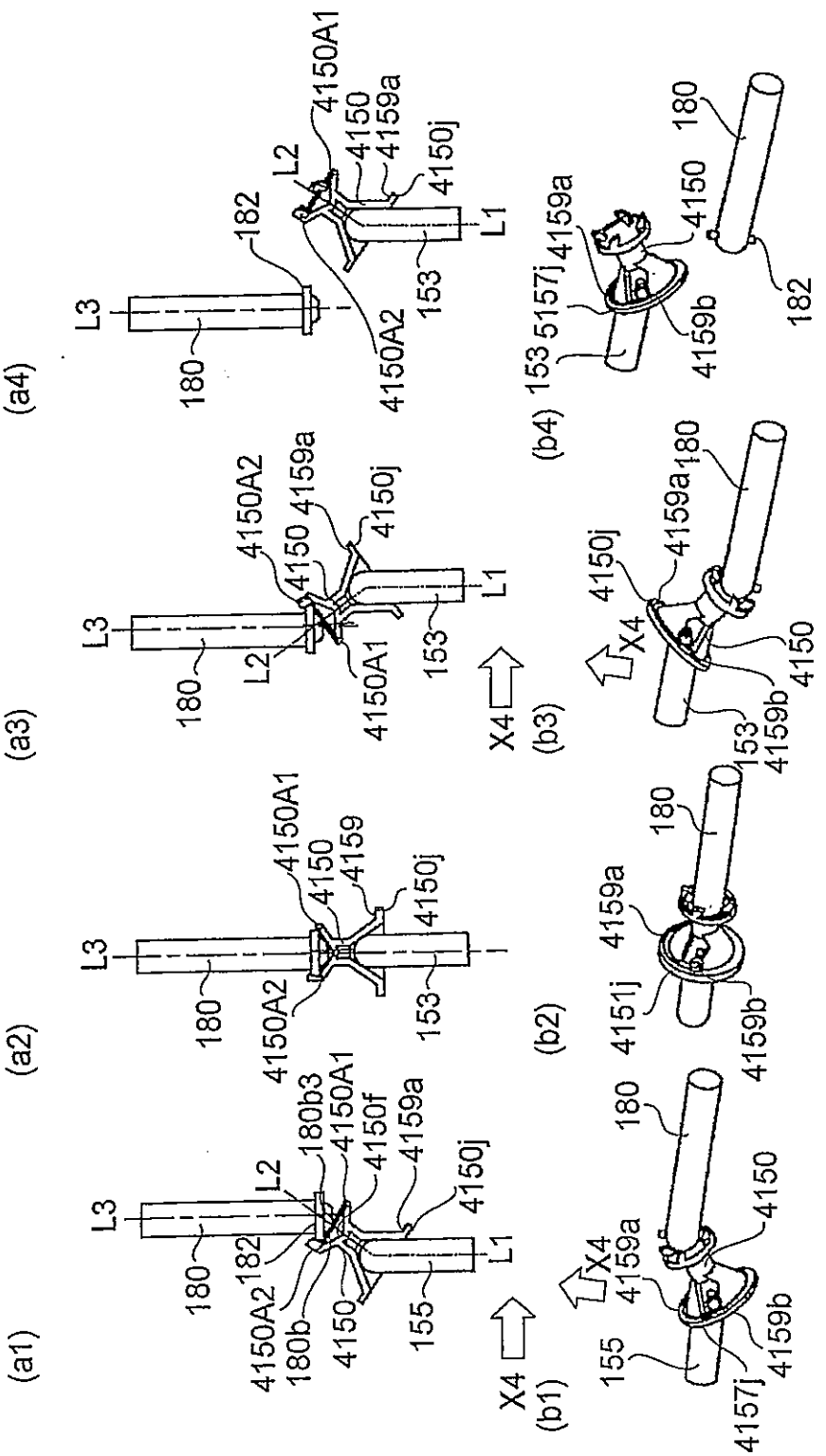

(a1)
(a2)
(a3)
(a4)
(b1)
(b2)
(b3)
(b4)
L3
L2
L1
180
182
4150A2
180b
180b3
4150
4150A1
4150f
4159
4159a
4150j
153
155
X4
4151j
4159b
4157j
4150A1
4150A2
4150
4159a
4150j
153
180
182
X4
4150j
4159a
180
4150
153
4159b
4159a
4150
180
182
153
5157j
4159b

FIG.42

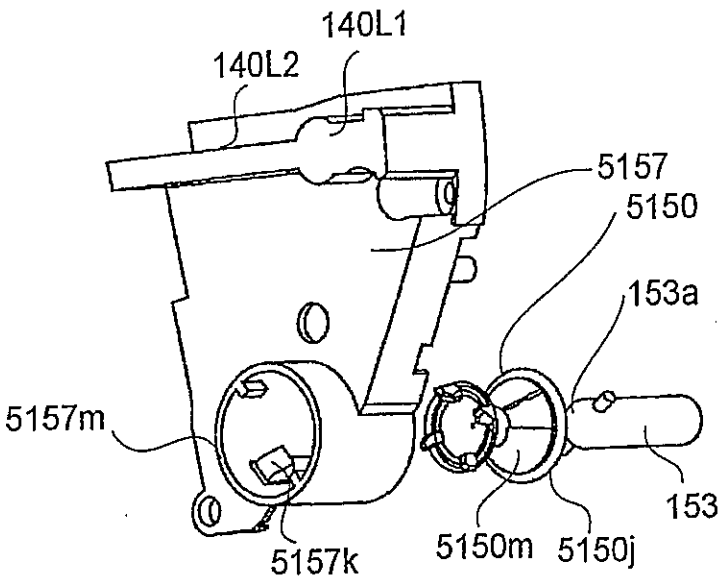

140L1
140L2
5157
5150
153a
5157m
153
5157k
5150m
5150j

FIG.43

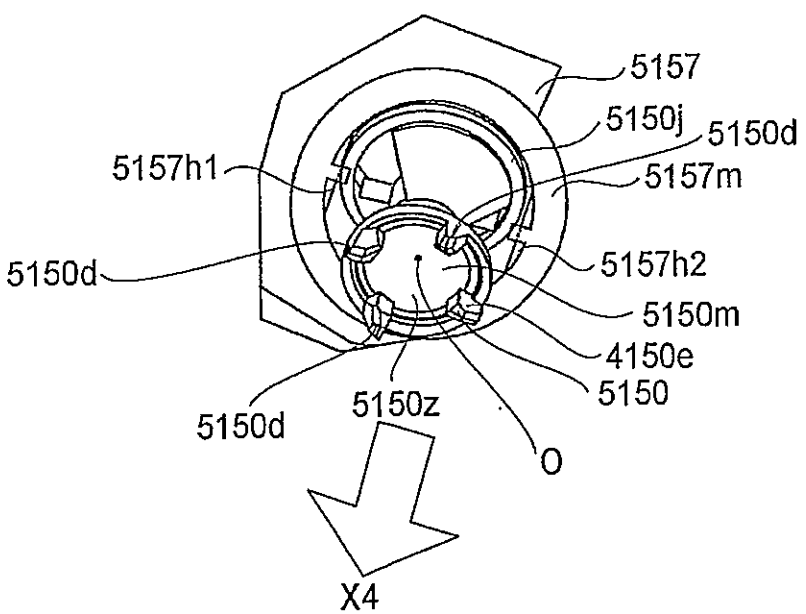

5157
5150j
5150d
5157h1
5157m
5150d
5157h2
5150m
4150e
5150
5150d
5150z
O
X4

FIG.44

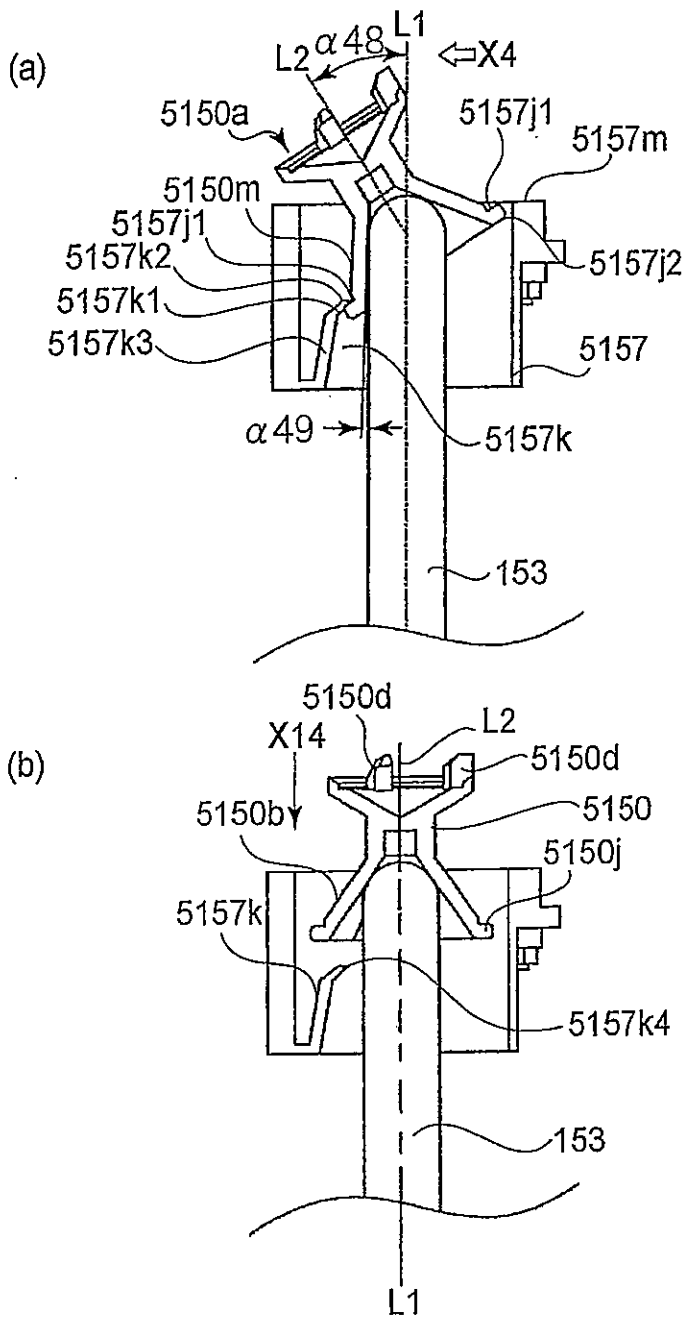

(a)
L1
L2
α48
⇦X4
5150a
5157j1
5157m
5150m
5157j1
5157k2
5157k1
5157k3
5157j2
5157
α49
5157k
153
(b)
5150d
X14
L2
5150d
5150b
5150
5150j
5157k
5157k4
153
L1

FIG.45

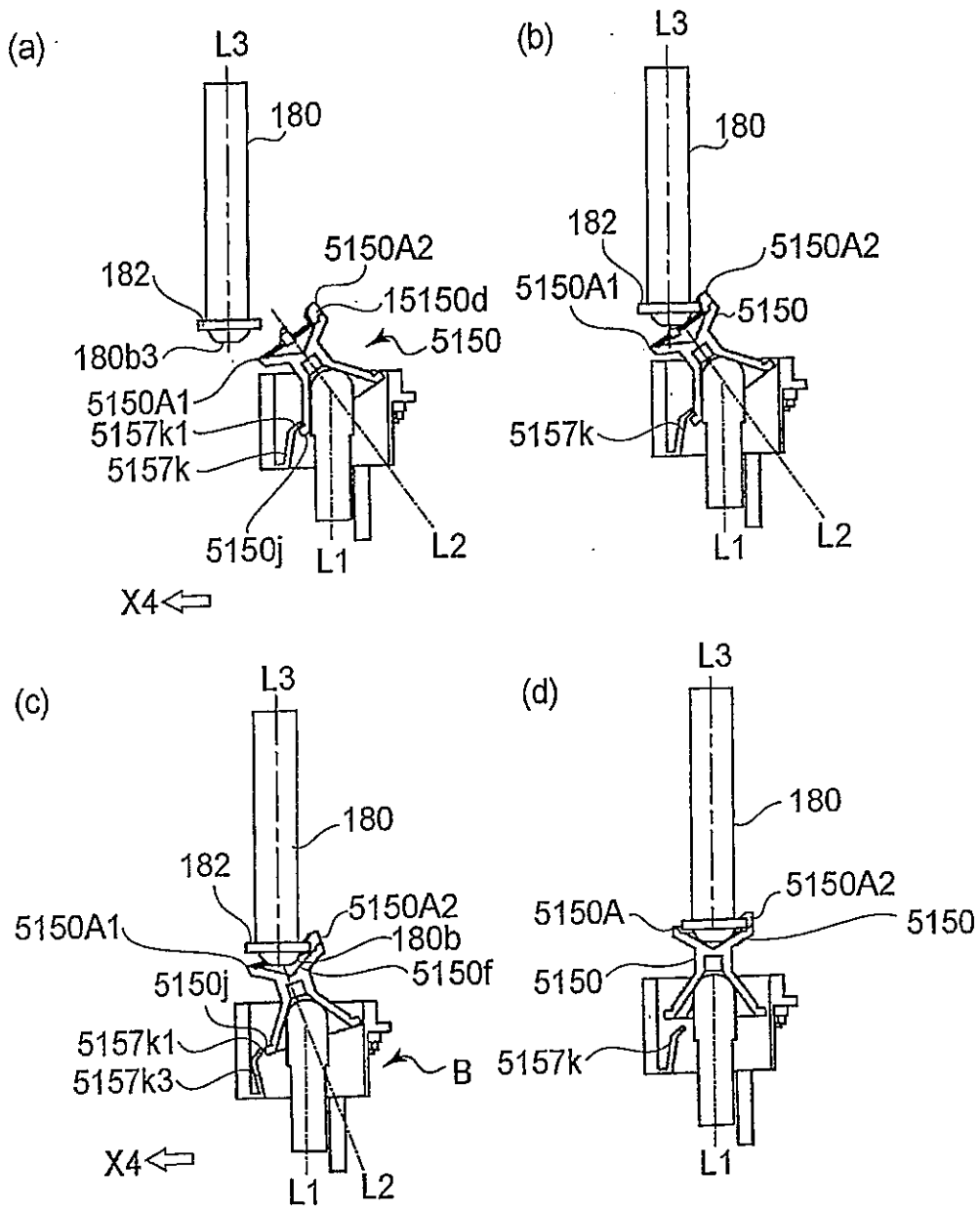

(a)
L3
180
182
5150A2
15150d
5150
180b3
5150A1
5157k1
5157k
5150j
L1
L2
X4
(b)
L3
180
182
5150A2
5150A1
5150
5157k
L1
L2
(c)
L3
180
182
5150A2
5150A1
180b
5150f
5150j
5157k1
5157k3
B
X4
L1
L2
(d)
L3
180
5150A2
5150A
5150
5150
5157k
L1

FIG.46

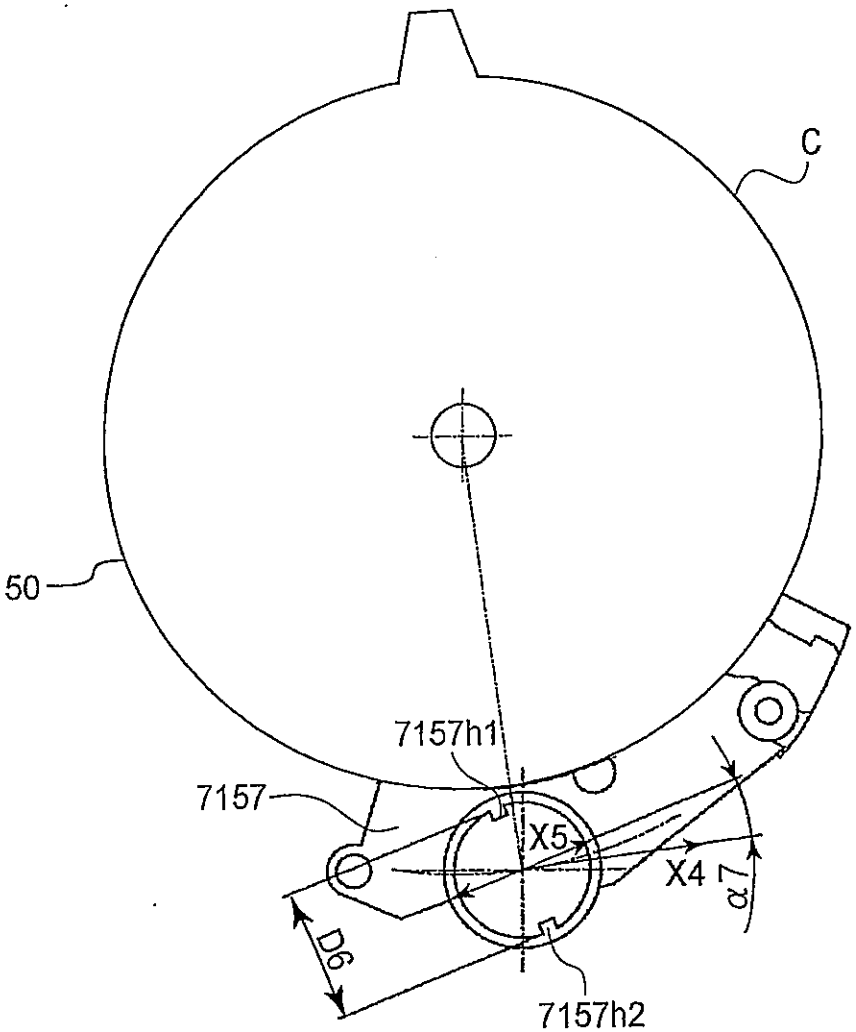


FIG.47

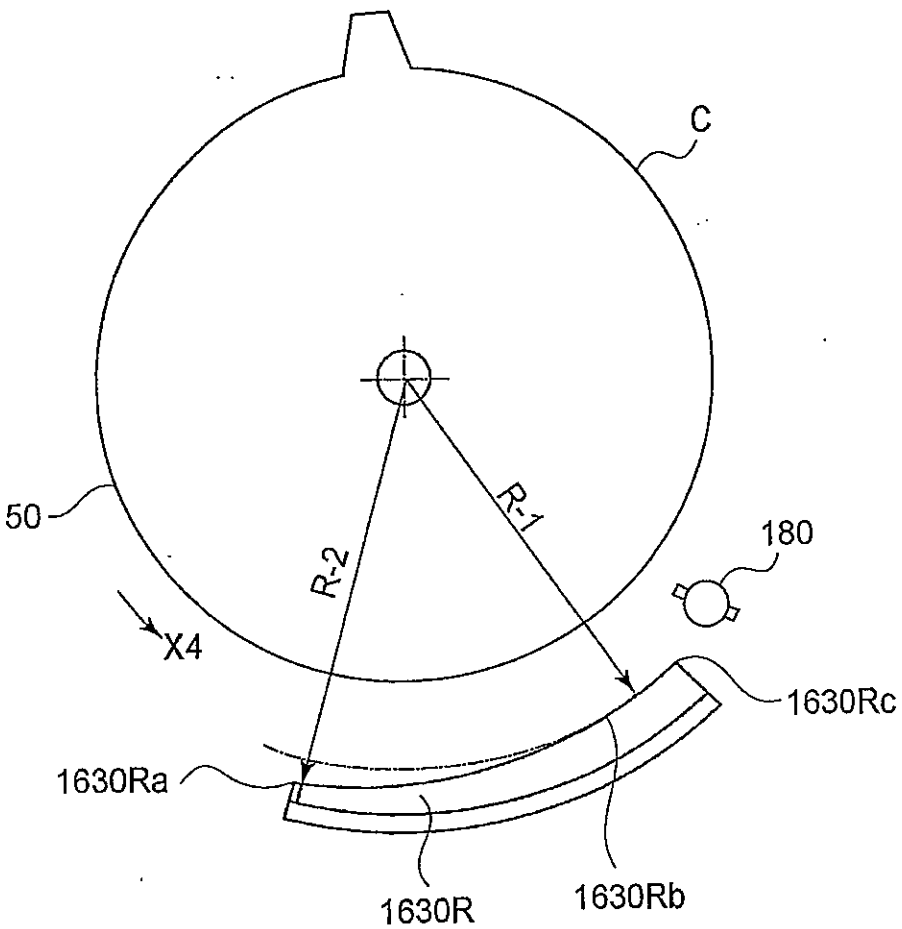


FIG.48

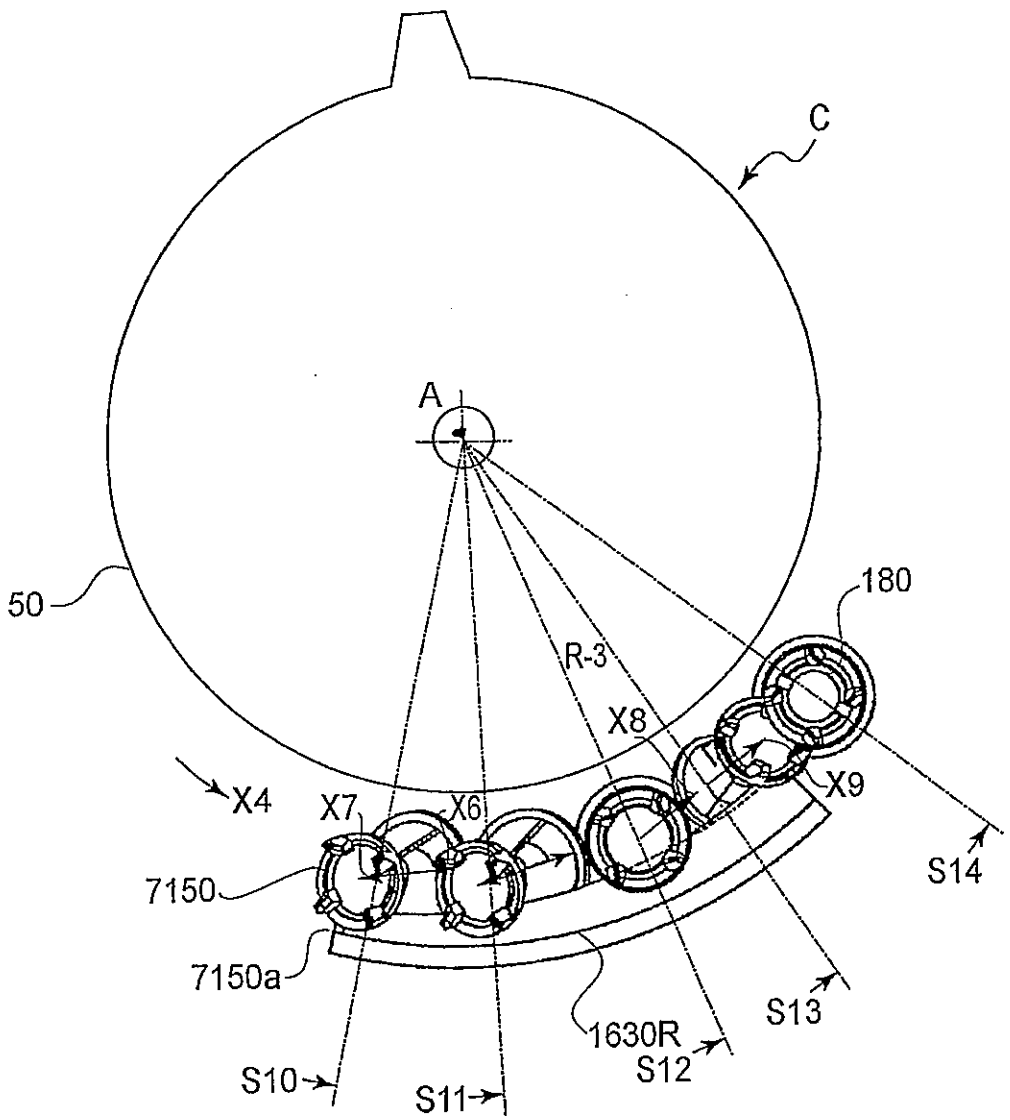


FIG.49

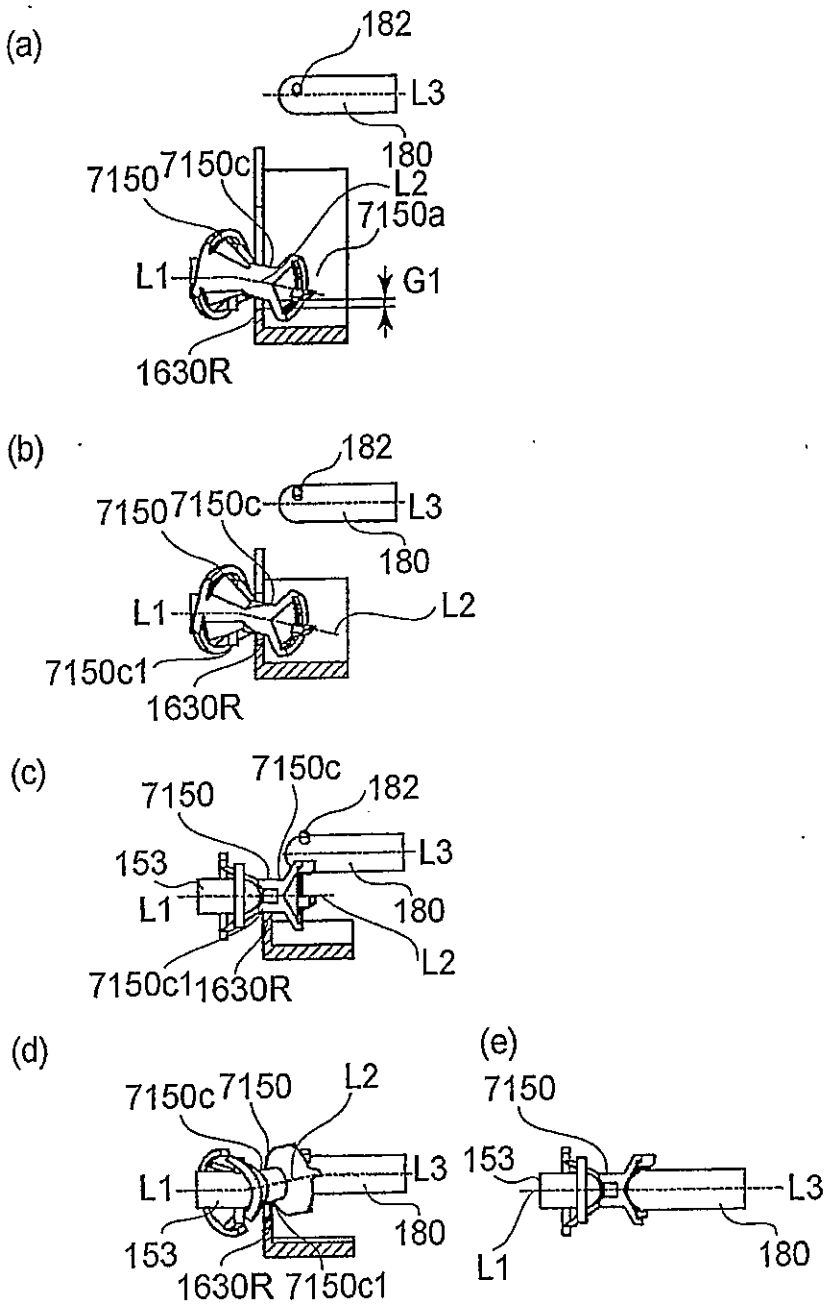

(a)
182
L3
180
7150
7150c
L2
7150a
L1
G1
1630R
(b)
182
7150
7150c
L3
180
L1
L2
7150c1
1630R
(c)
7150c
7150
182
153
L3
L1
180
L2
7150c1
1630R
(d)
7150c
7150
L2
L1
L3
180
153
1630R
7150c1
(e)
7150
153
L3
L1
180

FIG.50

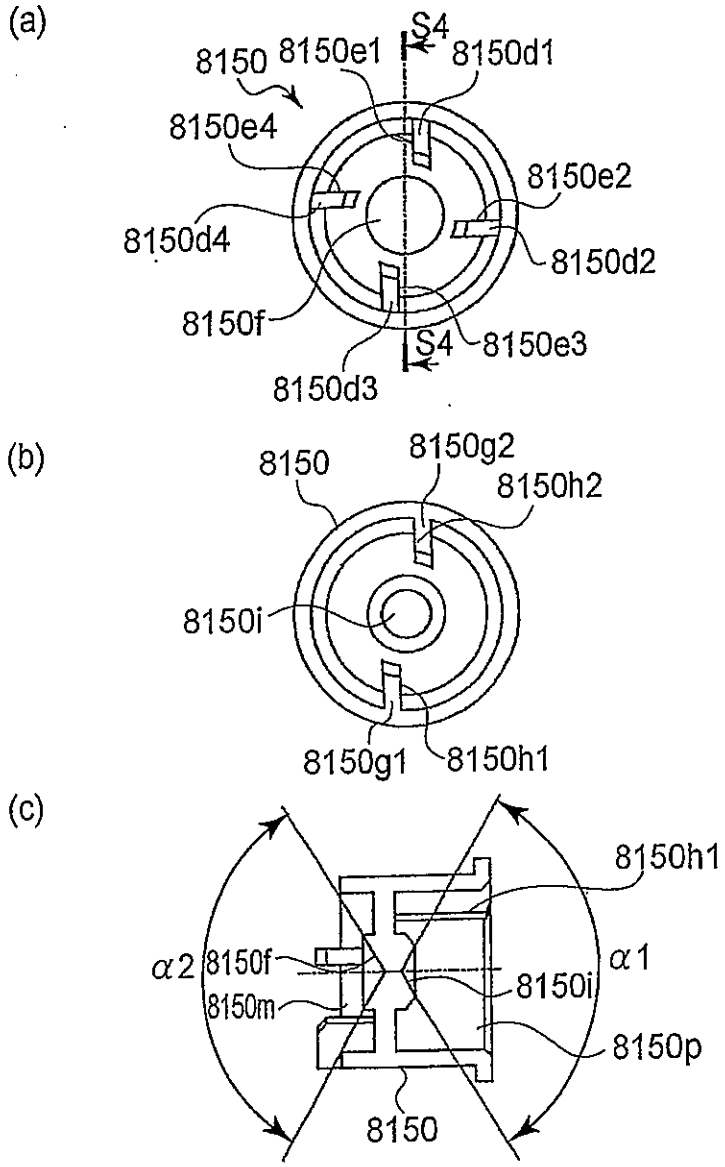

(a)
S4
8150
8150e1
8150d1
8150e4
8150e2
8150d4
8150d2
8150f
S4
8150e3
8150d3
(b)
8150
8150g2
8150h2
8150i
8150g1
8150h1
(c)
8150h1
α2
8150f
α1
8150m
8150i
8150p
8150

FIG.51

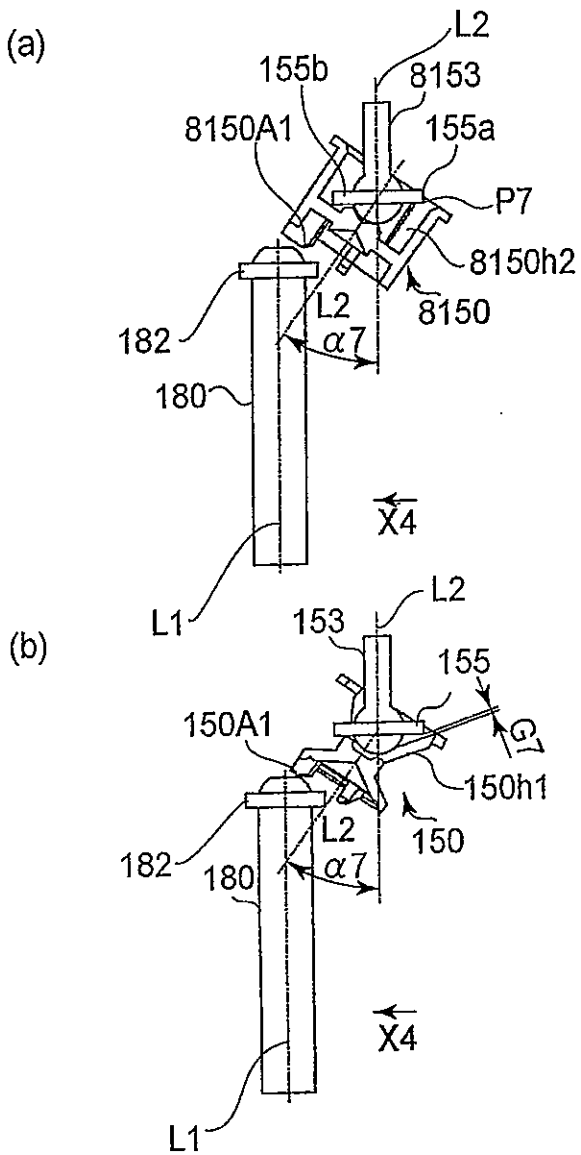

(a)
L2
155b
8153
8150A1
155a
P7
8150h2
8150
L2
α7
182
180
X4
L1
(b)
L2
153
155
G7
150A1
150h1
150
L2
α7
182
180
X4
L1

FIG.52

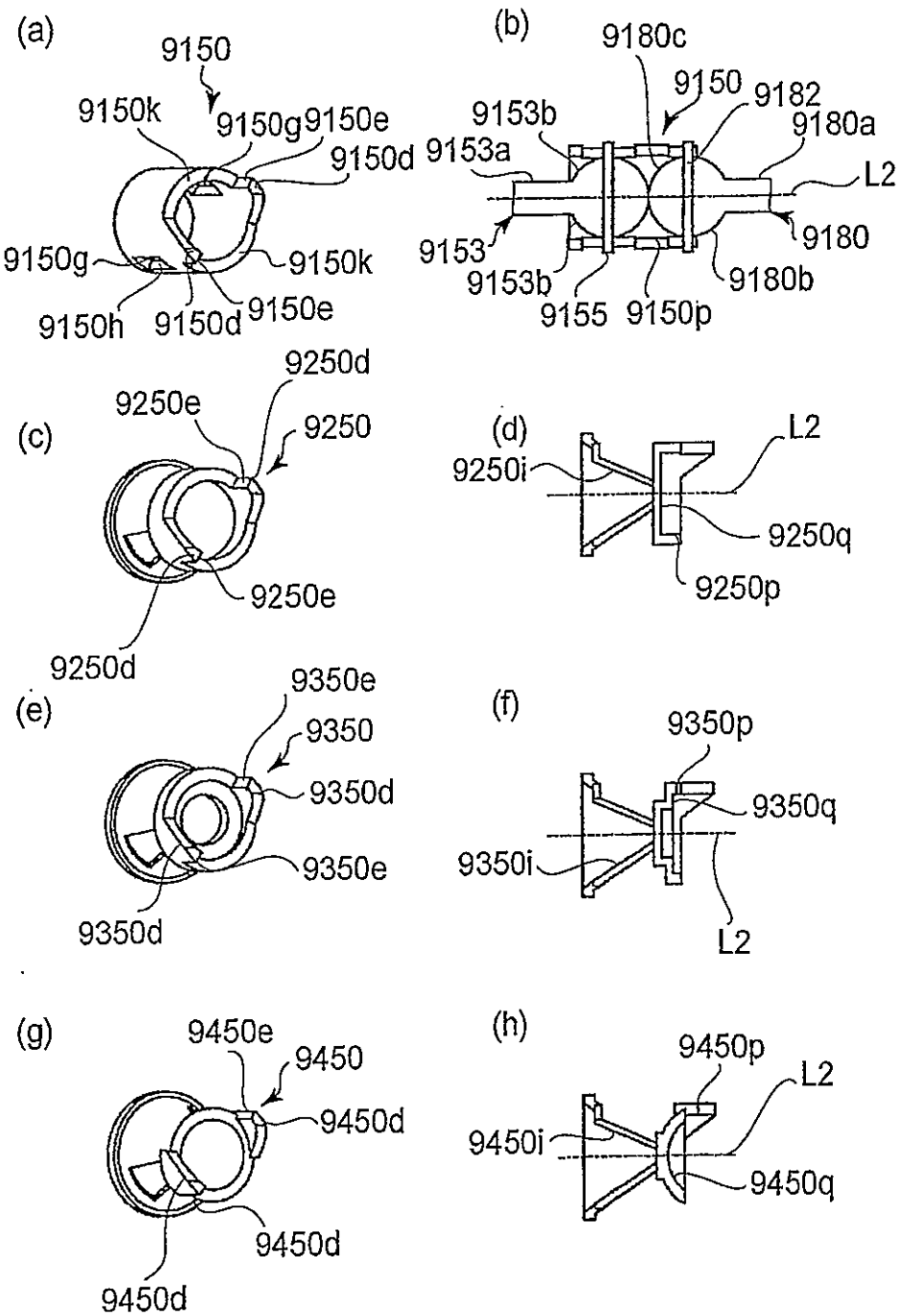

(a)
9150
9150k
9150g
9150e
9150d
9150g
9150k
9150h
9150d
9150e
(b)
9180c
9150
9182
9180a
9153b
9153a
L2
9153
9180
9153b
9180b
9155
9150p
(c)
9250d
9250e
9250
9250e
9250d
(d)
L2
9250i
9250q
9250p
(e)
9350e
9350
9350d
9350e
9350d
(f)
9350p
9350q
9350i
L2
(g)
9450e
9450
9450d
9450d
9450d
(h)
9450p
L2
9450i
9450q

FIG.53

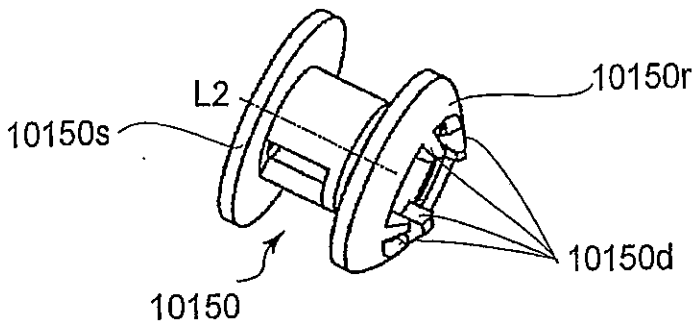

L2
10150r
10150s
10150d
10150

FIG.54

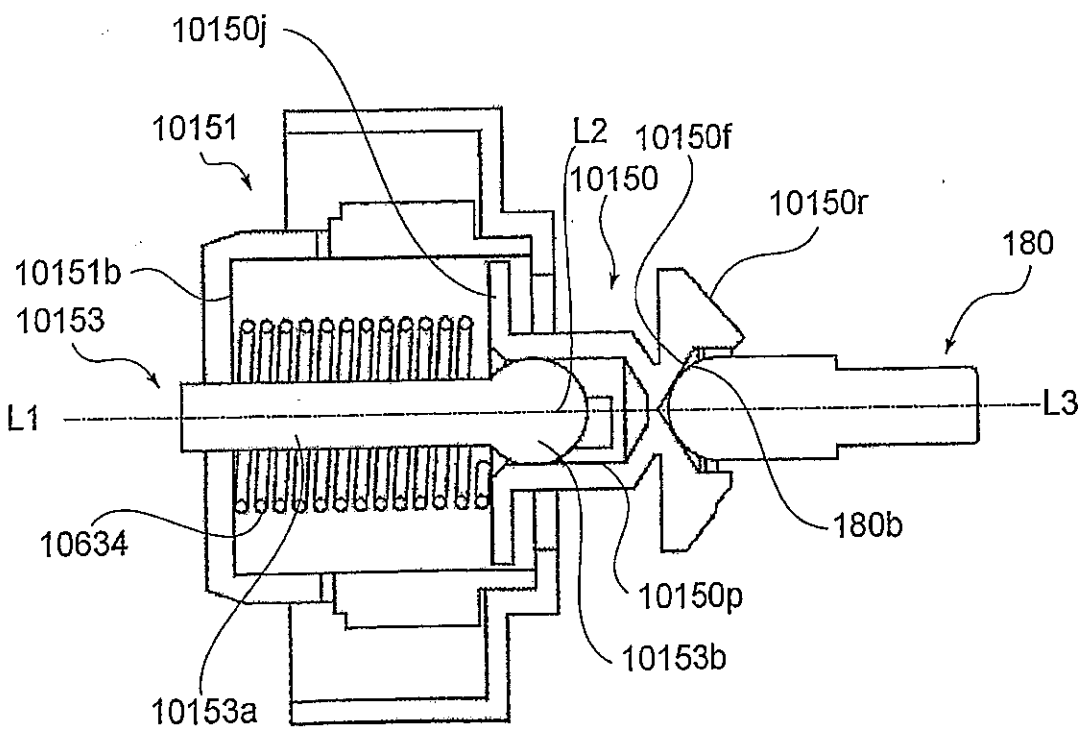

10150j
10151
L2
10150f
10150
10150r
180
10151b
10153
L1
L3
180b
10634
10150p
10153b
10153a

FIG.55

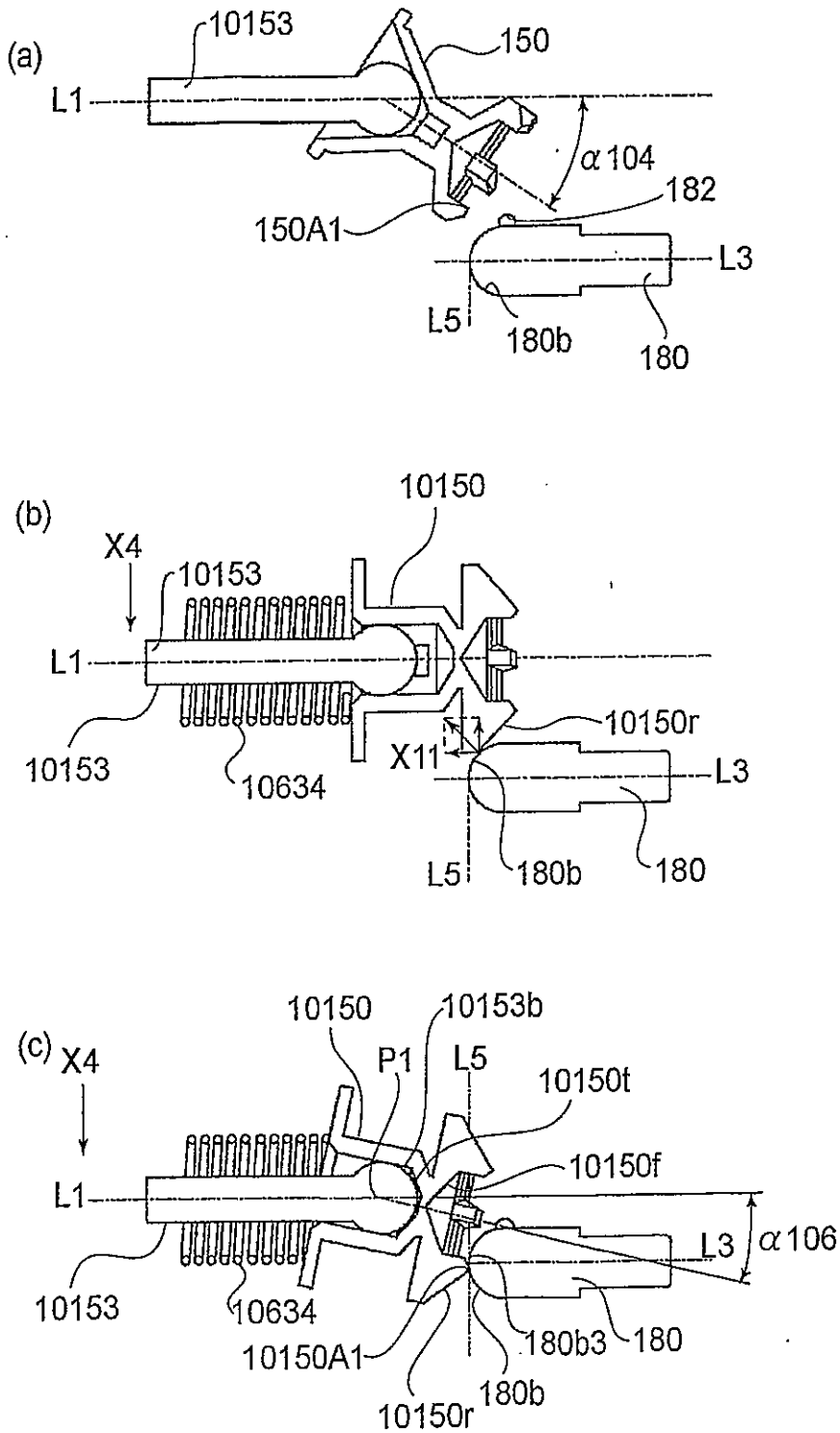

(a)
10153
150
L1
α104
182
150A1
L3
L5
180b
180
(b)
10150
X4
10153
L1
10150r
X11
10153
10634
L3
L5
180b
180
(c)
10150
10153b
X4
P1
L5
10150t
10150f
L1
L3
α106
10153
10634
10150A1
180b3
180
10150r
180b

FIG.56

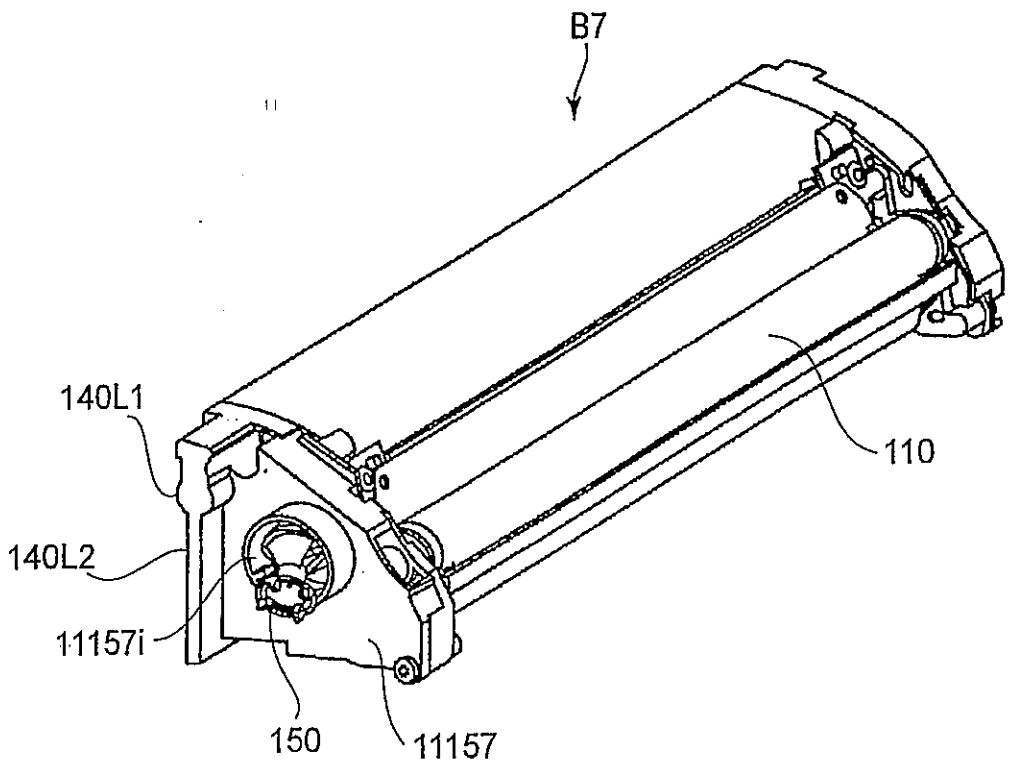


FIG.57

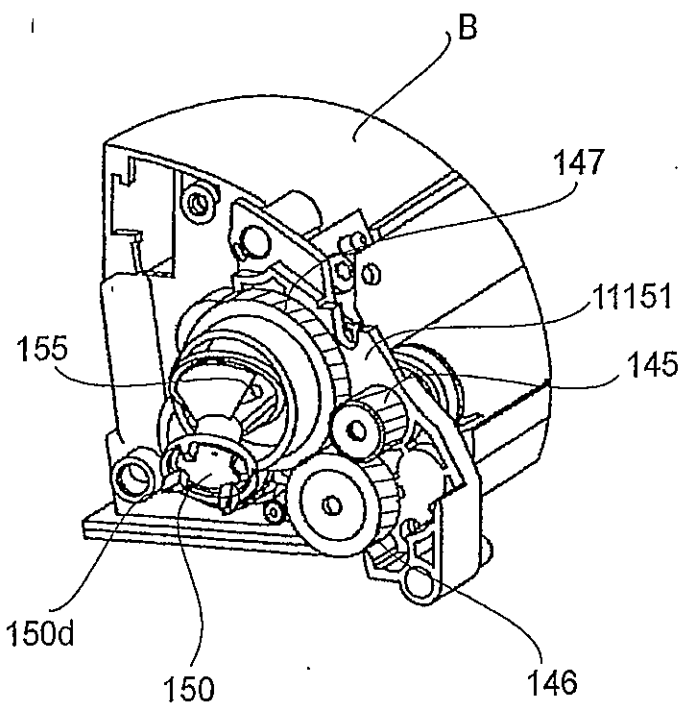


FIG.58

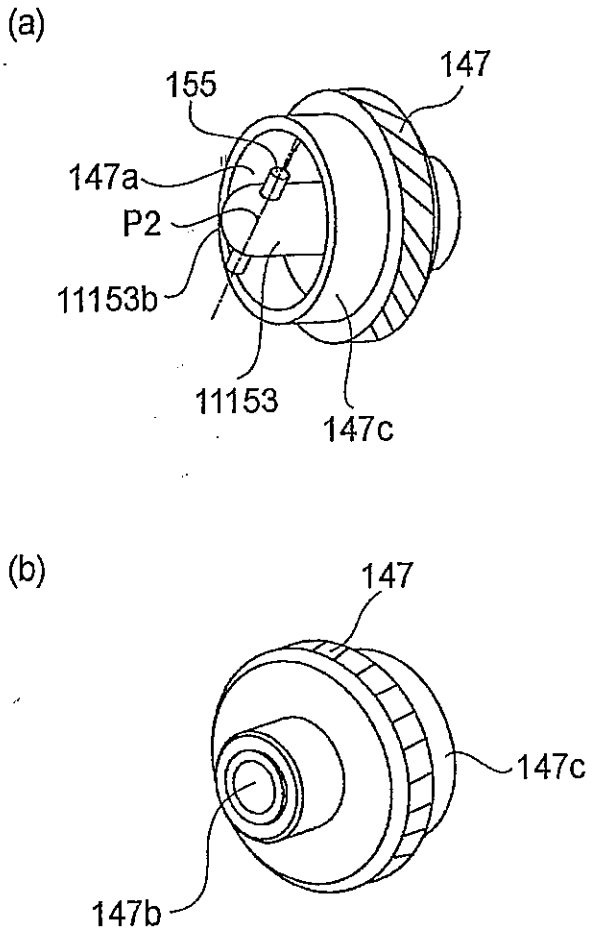


FIG.59

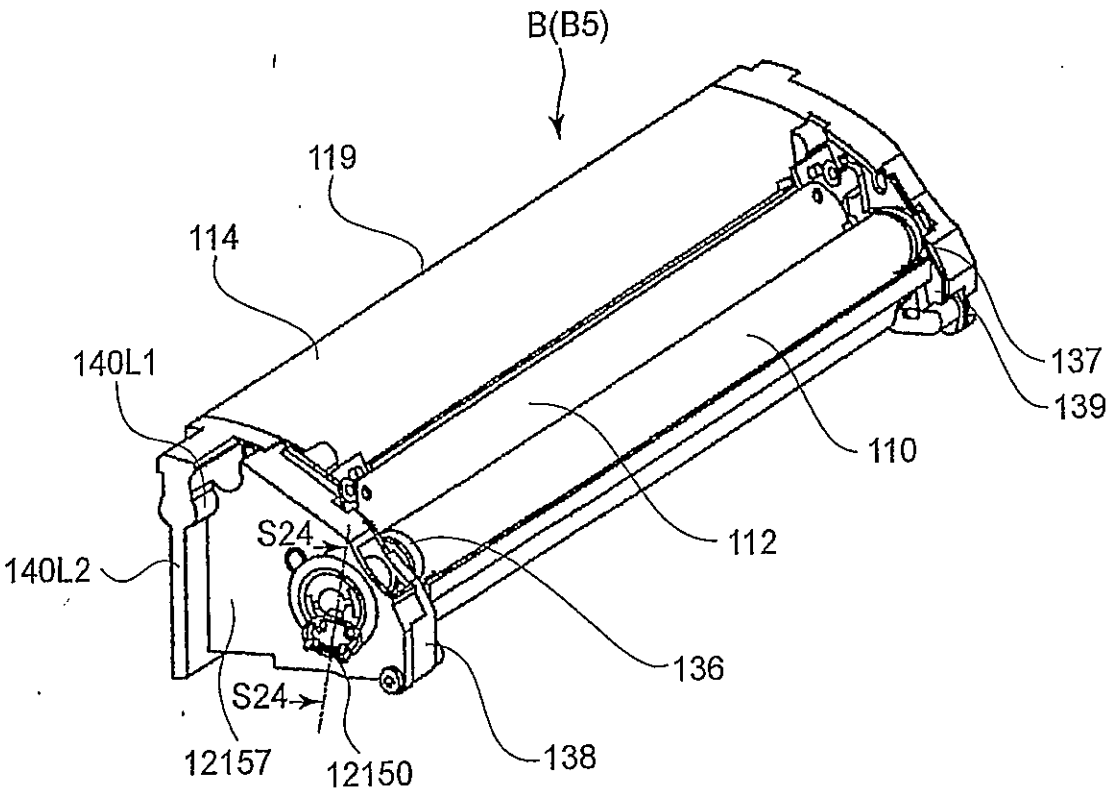

B(B5)
119
114
140L1
137
139
110
112
S24
140L2
136
S24
12157
12150
138

FIG.60

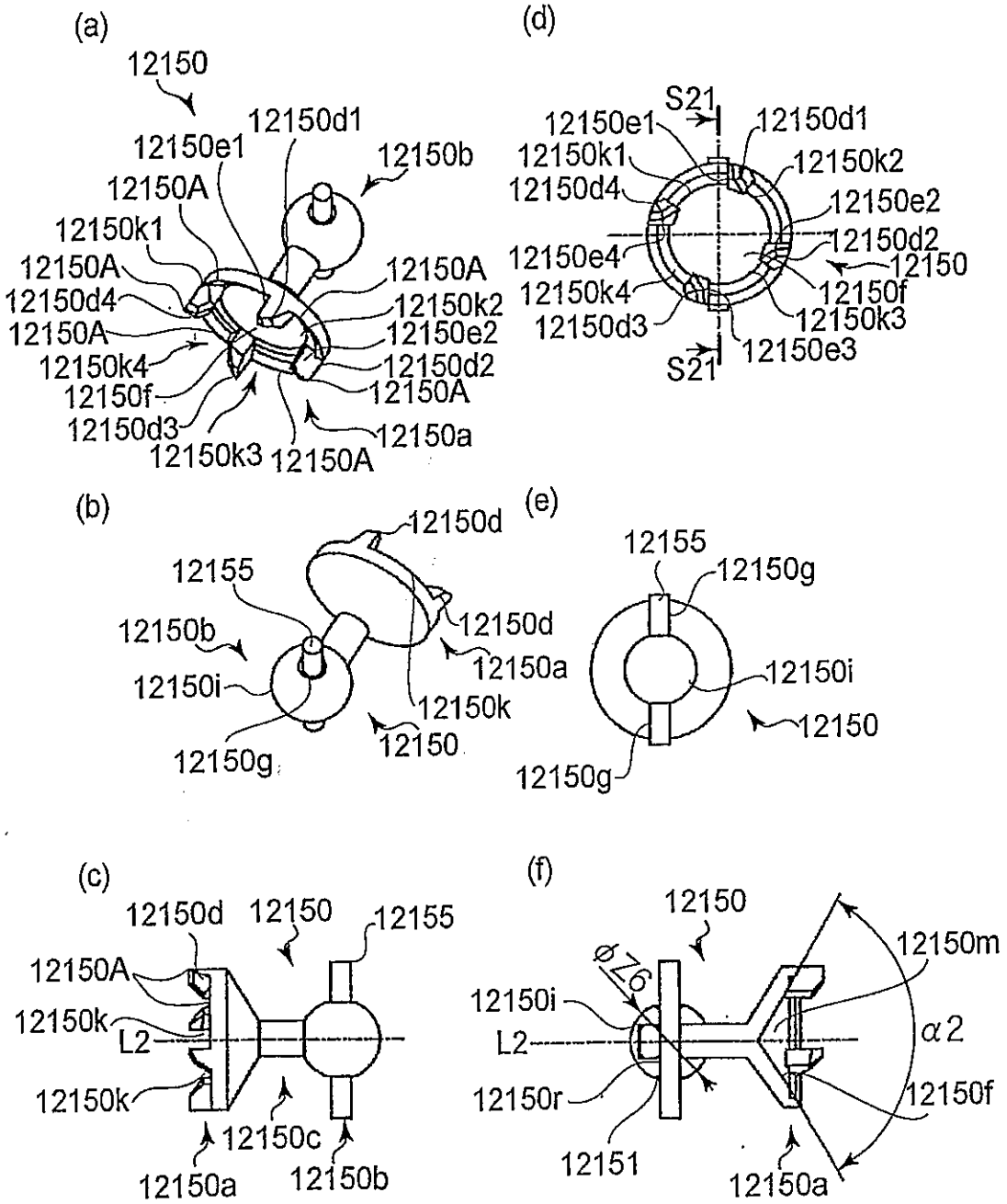

(a)
12150
12150d1
12150e1
12150b
12150A
12150k1
12150A
12150d4
12150A
12150k4
12150f
12150d3
12150k3
12150A
12150A
12150k2
12150e2
12150d2
12150A
12150a
(d)
S21
12150e1
12150d1
12150k1
12150k2
12150d4
12150e2
12150d2
12150e4
12150
12150k4
12150f
12150d3
12150k3
12150e3
S21
(b)
12150d
12155
12150b
12150d
12150a
12150i
12150k
12150
12150g
(e)
12155
12150g
12150i
12150
12150g
(c)
12150d
12150
12155
12150A
12150k
L2
12150k
12150c
12150a
12150b
(f)
12150
12150m
ø26
12150i
L2
α2
12150r
12150f
12151
12150a

FIG.61

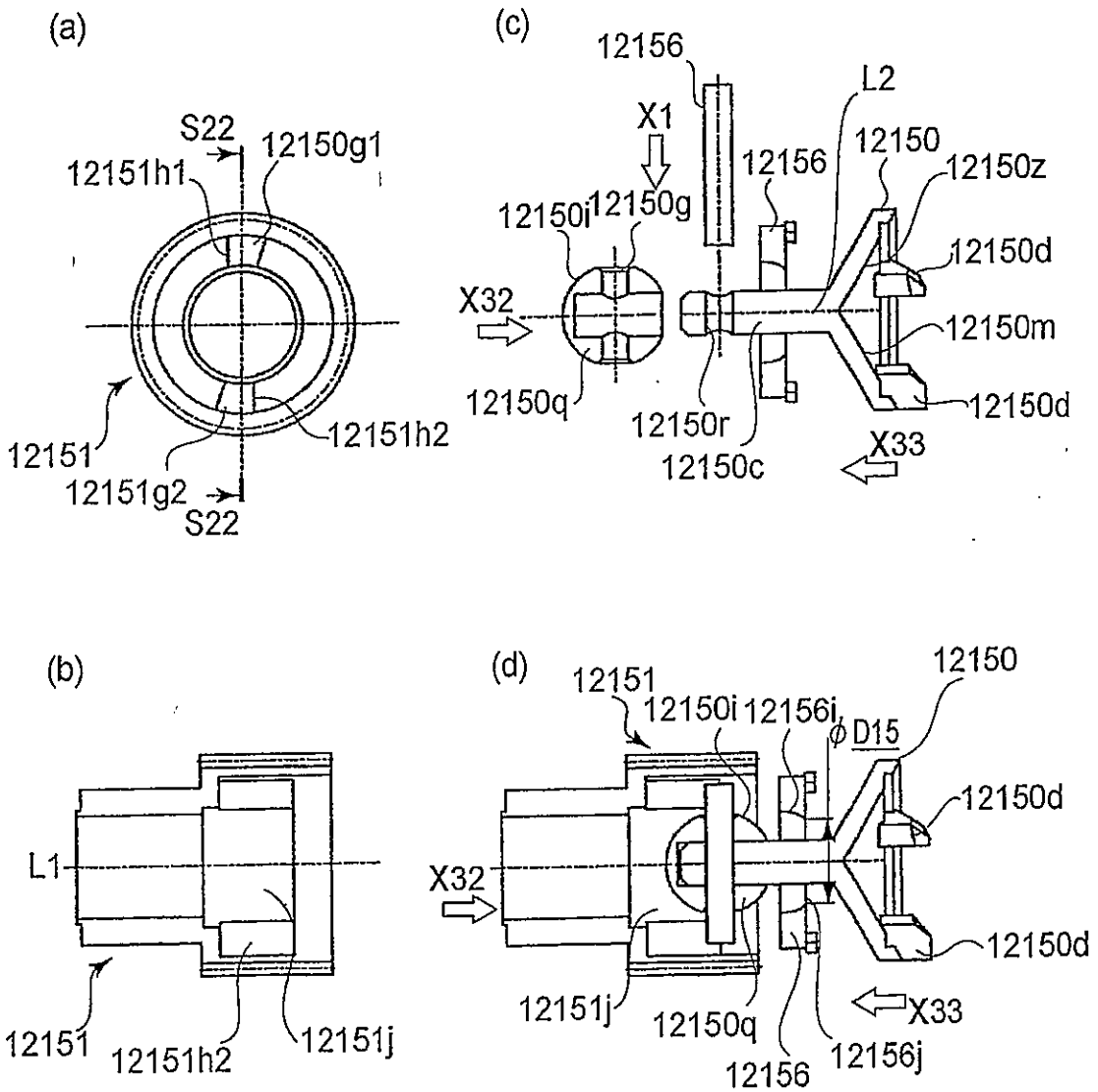

(a)
S22
12150g1
12151h1
12151
12151g2
S22
12151h2
(c)
12156
X1
L2
12156
12150
12150z
12150i
12150g
12150d
X32
12150m
12150q
12150r
12150d
12150c
X33
(b)
L1
12151
12151h2
12151j
(d)
12151
12150i
12156i
φ D15
12150
12150d
X32
12150d
12151j
12150q
X33
12156
12156j

FIG.62

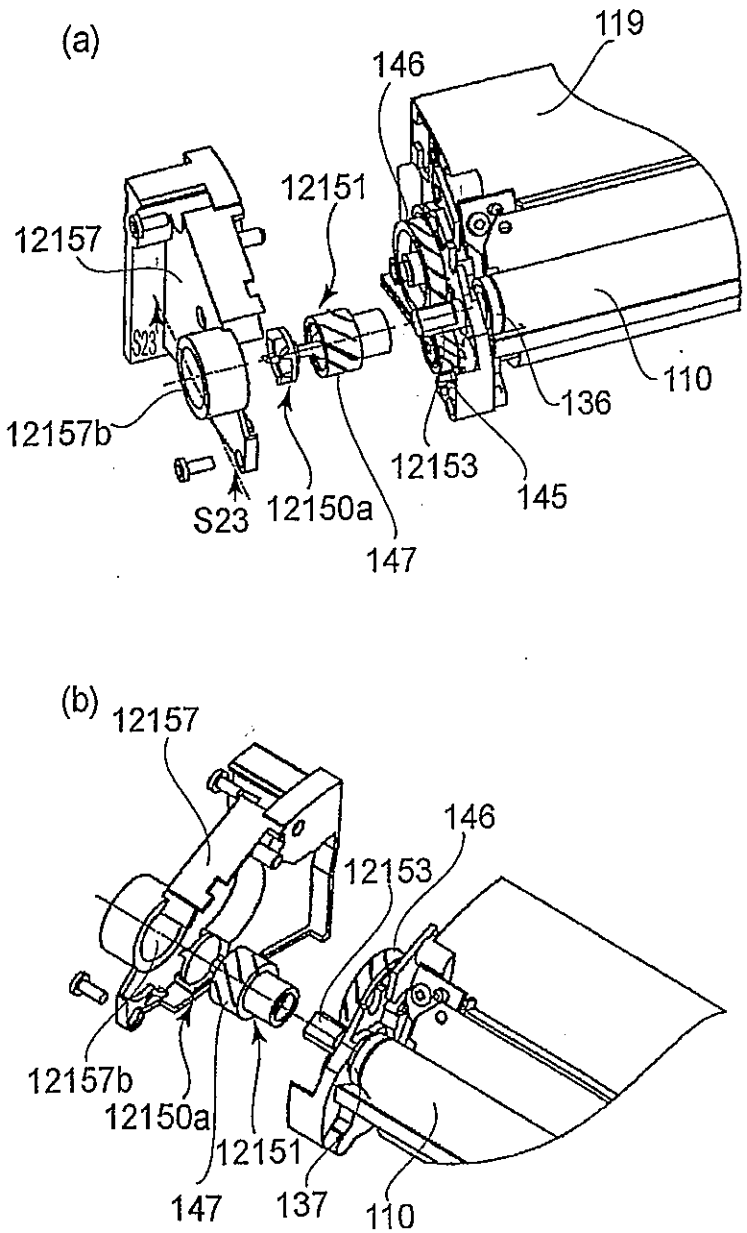

(a)
119
146
12151
12157
S23
12157b
S23
12150a
147
12153
145
136
110
(b)
12157
146
12153
12157b
12150a
12151
147
137
110

FIG.63

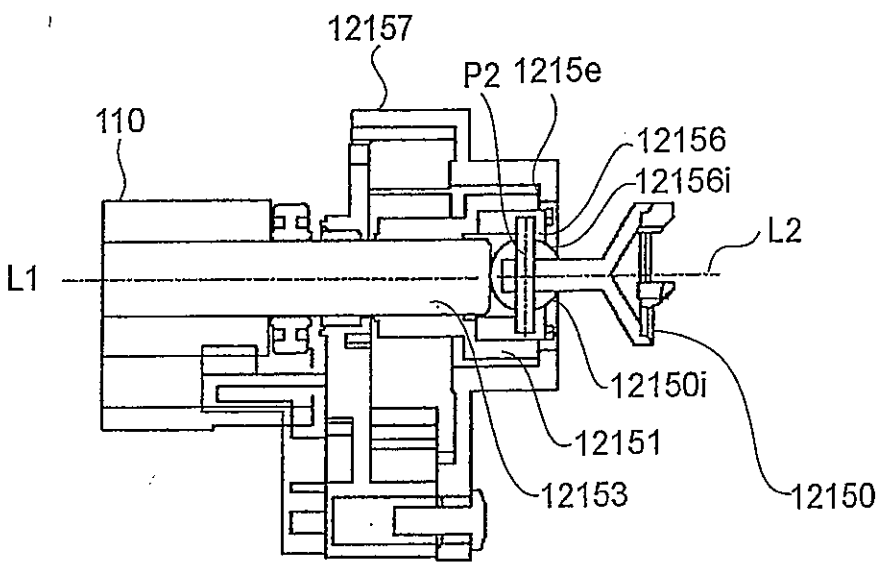

12157
P2 1215e
110
12156
12156i
L2
L1
12150i
12151
12153
12150

FIG.64

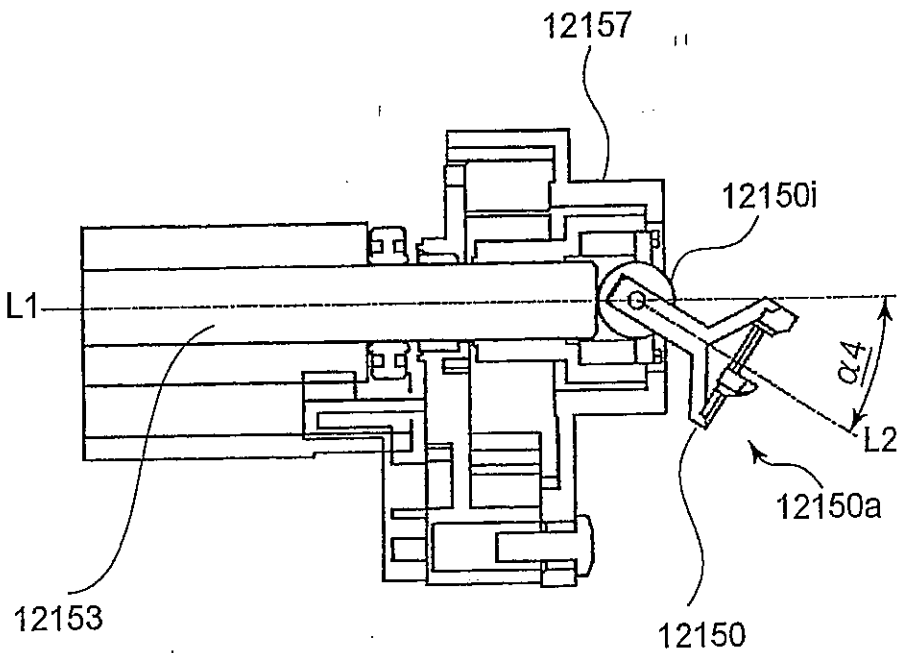


FIG.65

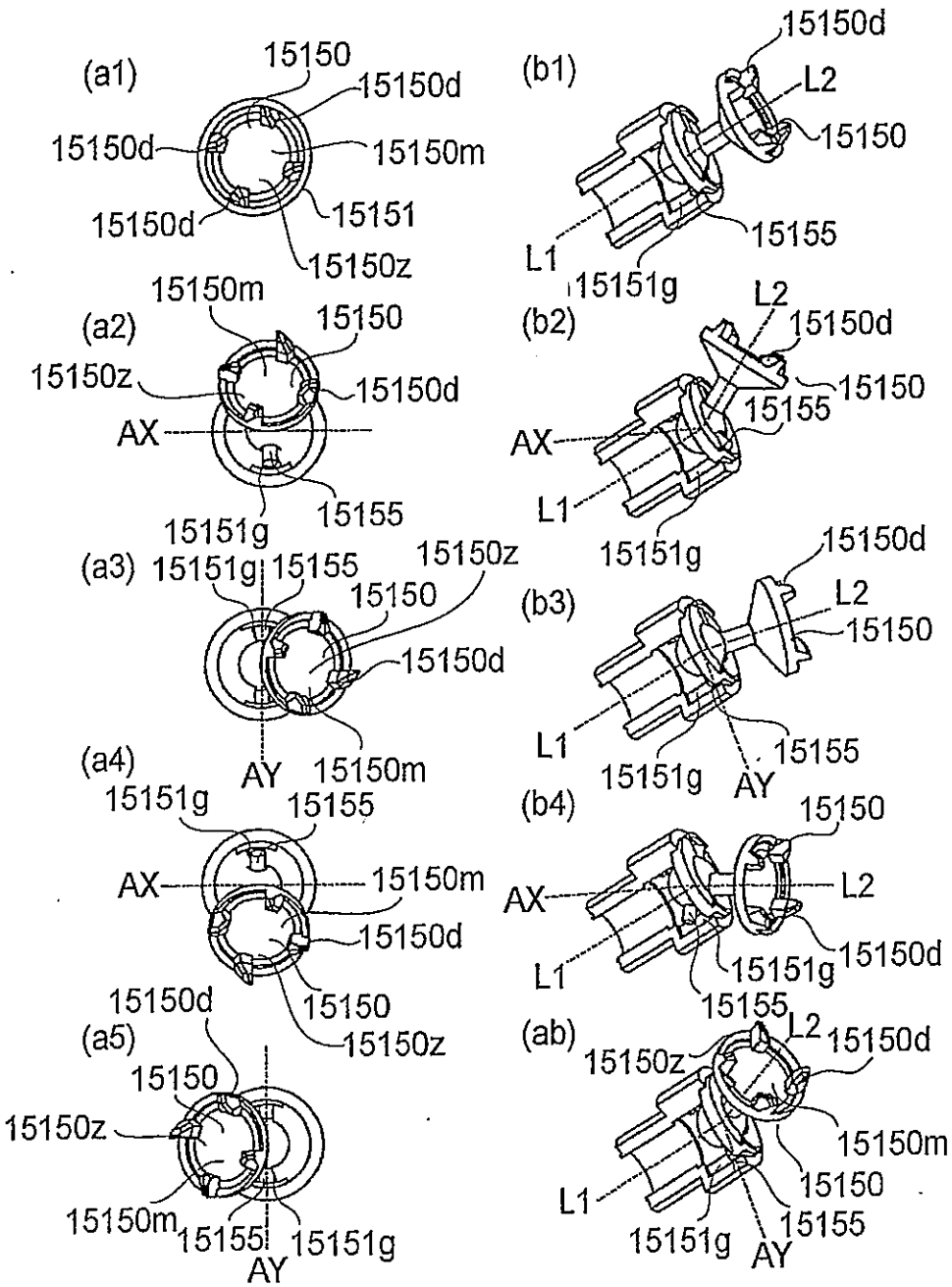

(a1)
15150
15150d
15150d
15150m
15150d
15151
15150z
(a2)
15150m
15150
15150z
15150d
AX
15151g
15155
(a3)
15151g
15155
15150z
15150
15150d
AY
15150m
(a4)
15151g
15155
AX
15150m
15150d
15150
15150z
(a5)
15150d
15150
15150z
15150m
15155
15151g
AY
(b1)
15150d
L2
15150
15155
L1
15151g
(b2)
L2
15150d
15150
15155
AX
L1
15151g
(b3)
15150d
L2
15150
L1
15155
15151g
AY
(b4)
15150
AX
L2
L1
15151g
15150d
15155
(ab)
L2
15150z
15150d
15150m
15150
L1
15151g
15155
AY

FIG.66

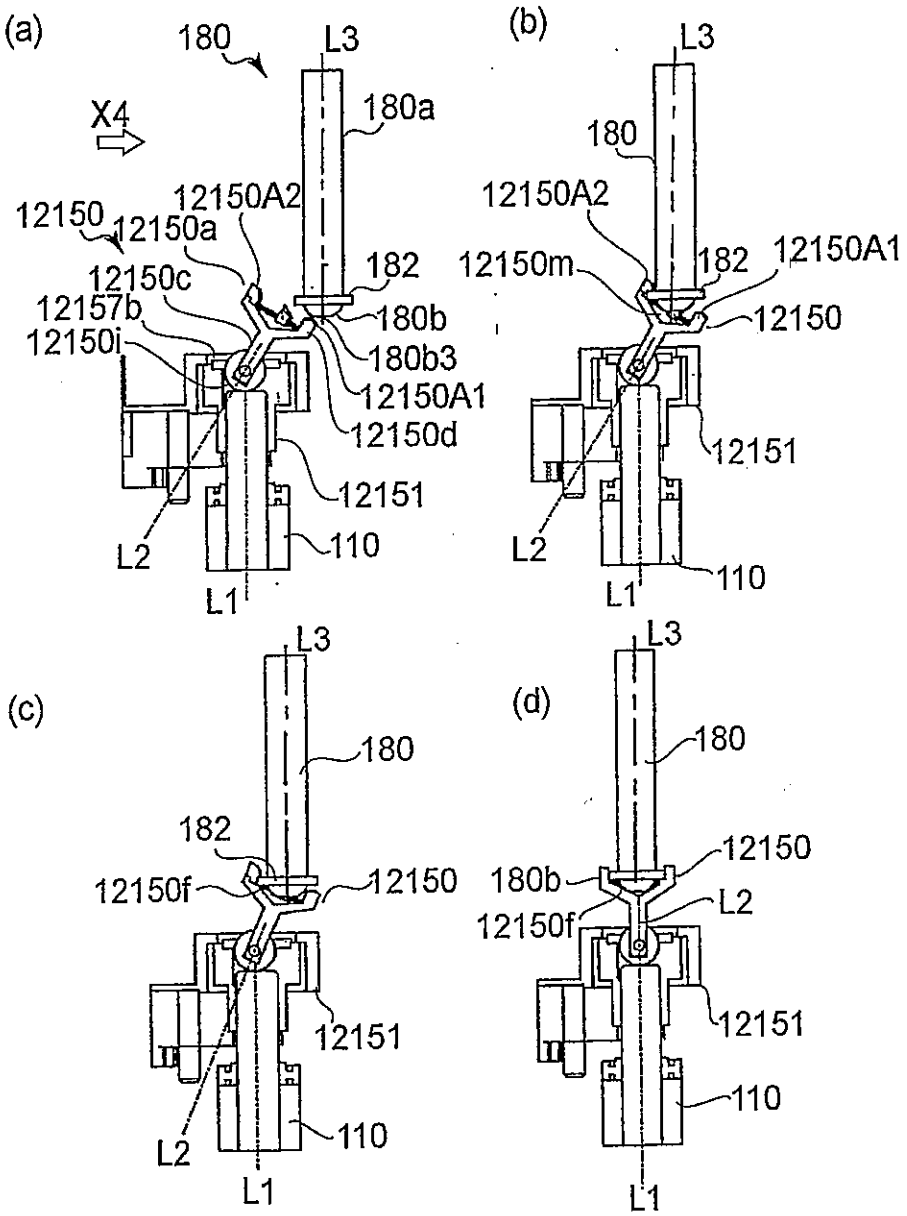

(a)
180
L3
180a
X4
12150
12150a
12150A2
12150c
182
12157b
180b
12150i
180b3
12150A1
12150d
12151
L2
110
L1
(b)
L3
180
12150A2
12150m
182
12150A1
12150
12151
L2
110
L1
(c)
L3
180
182
12150f
12150
12151
L2
110
L1
(d)
L3
180
12150
180b
L2
12150f
12151
110
L1

FIG.67

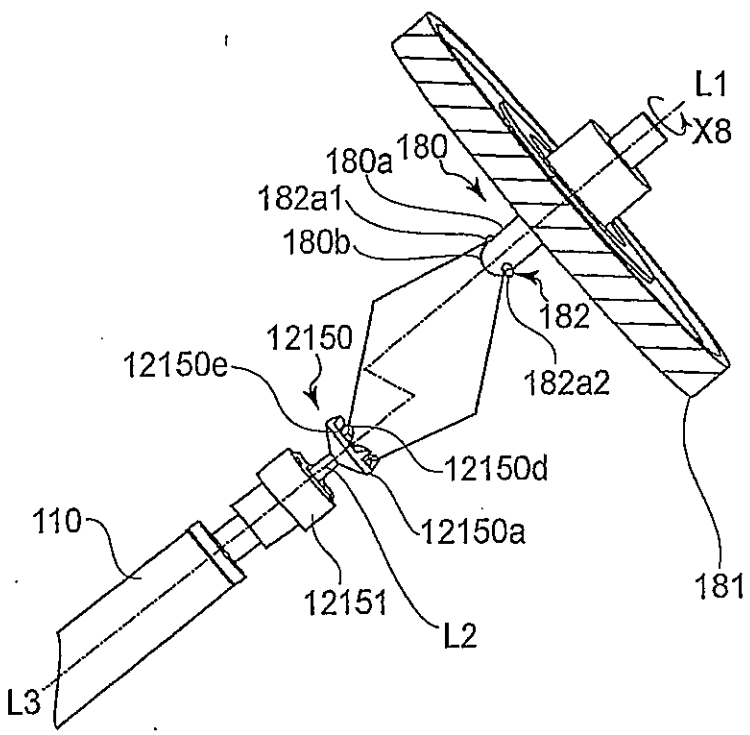

L1
X8
180a
180
182a1
180b
182
12150
12150e
182a2
12150d
12150a
110
181
12151
L2
L3

FIG.68

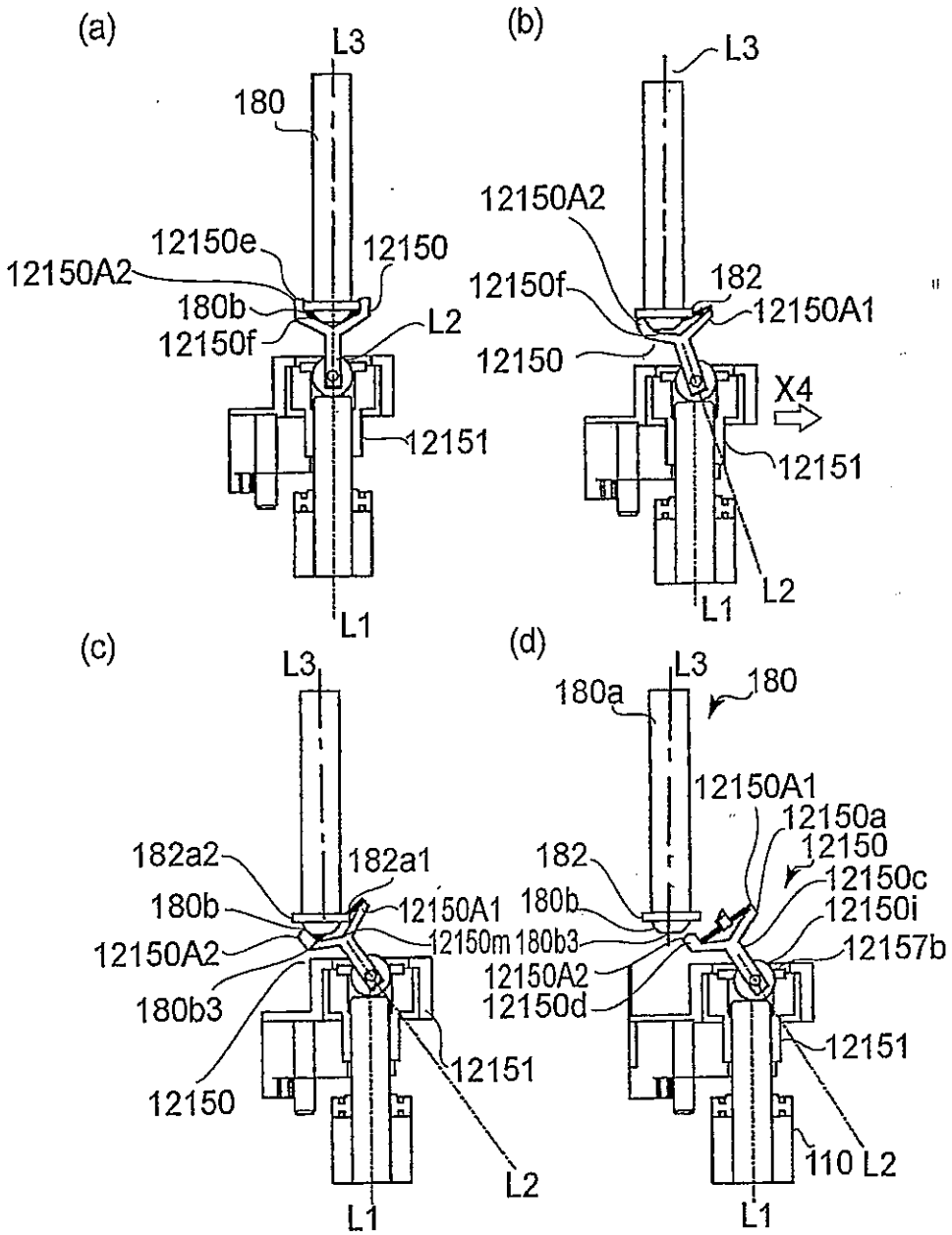

(a)
L3
180
12150e
12150
12150A2
180b
12150f
L2
12151
L1
(b)
L3
12150A2
12150f
182
12150A1
12150
X4
12151
L2
L1
(c)
L3
182a2
182a1
180b
12150A1
12150A2
12150m
180b3
12150
12151
L2
L1
(d)
L3
180a
180
12150A1
12150a
12150
182
12150c
180b
12150i
180b3
12157b
12150A2
12150d
12151
110
L2
L1

FIG.69

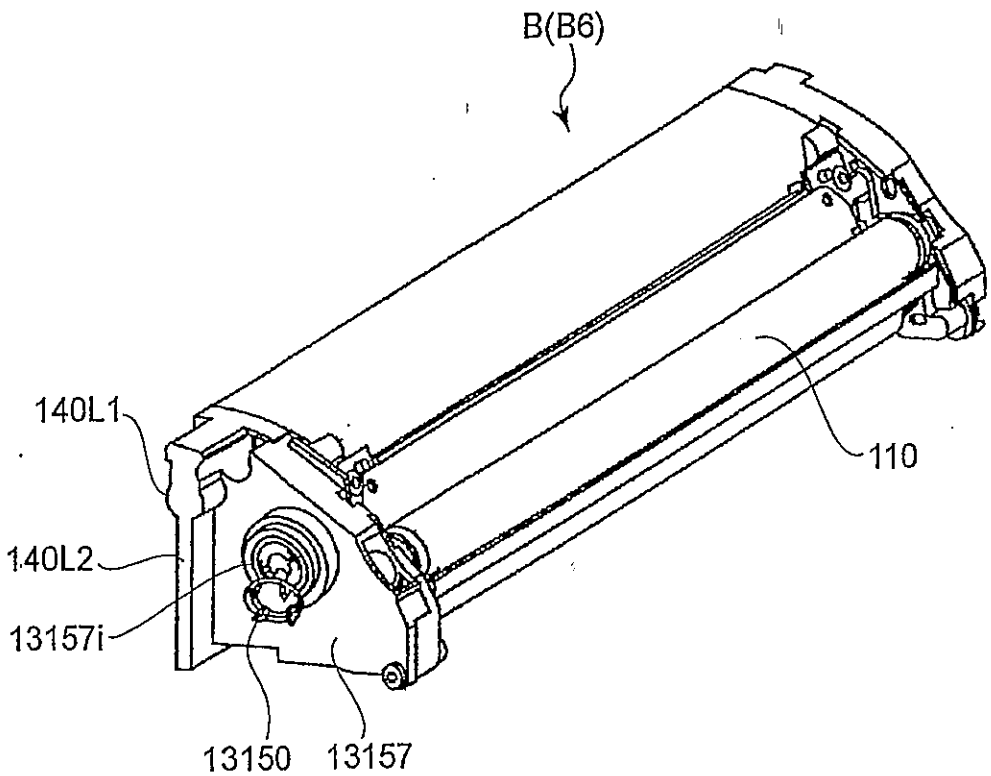


FIG.70

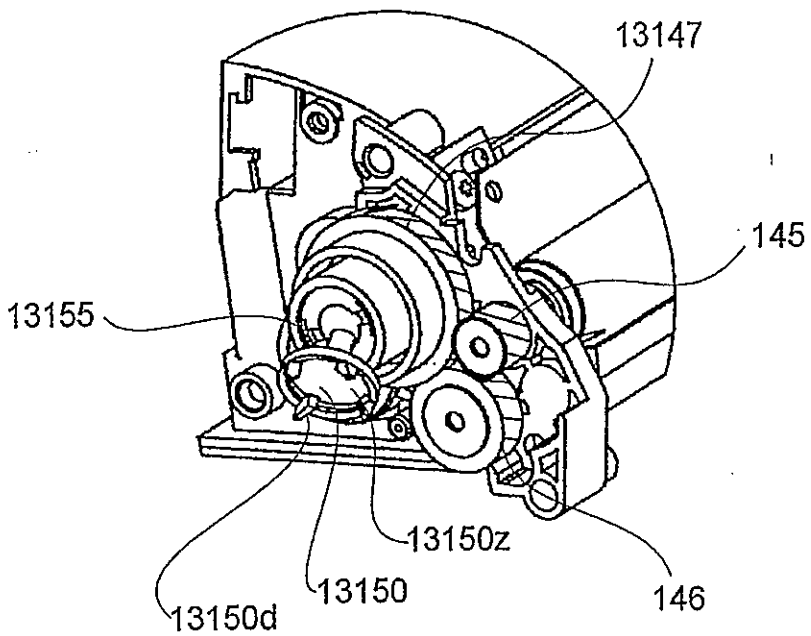
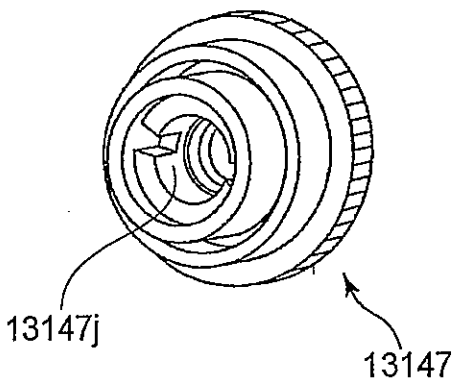


FIG.71

(a)



(b)

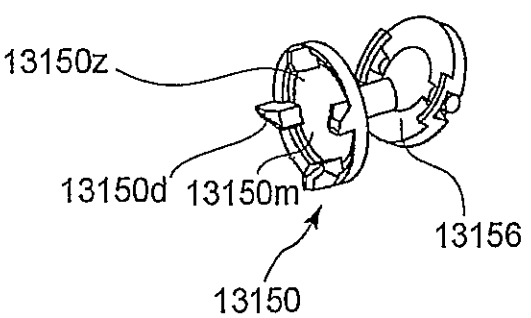


FIG.72

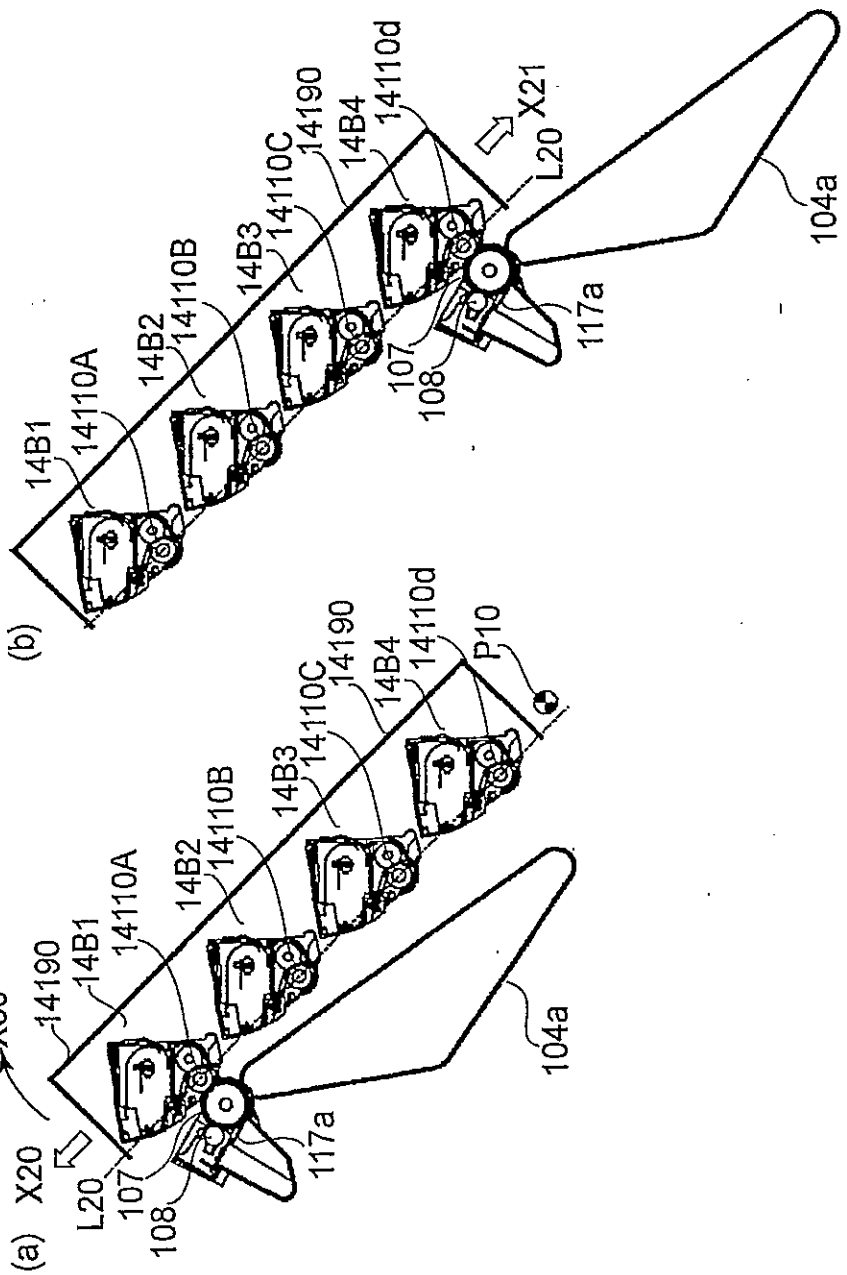

(a)
X20
L20
X30
14190
14B1
14110A
14B2
14110B
14B3
14110C
14B4
14110d
107
108
117a
104a
P10
(b)
X21

FIG.73

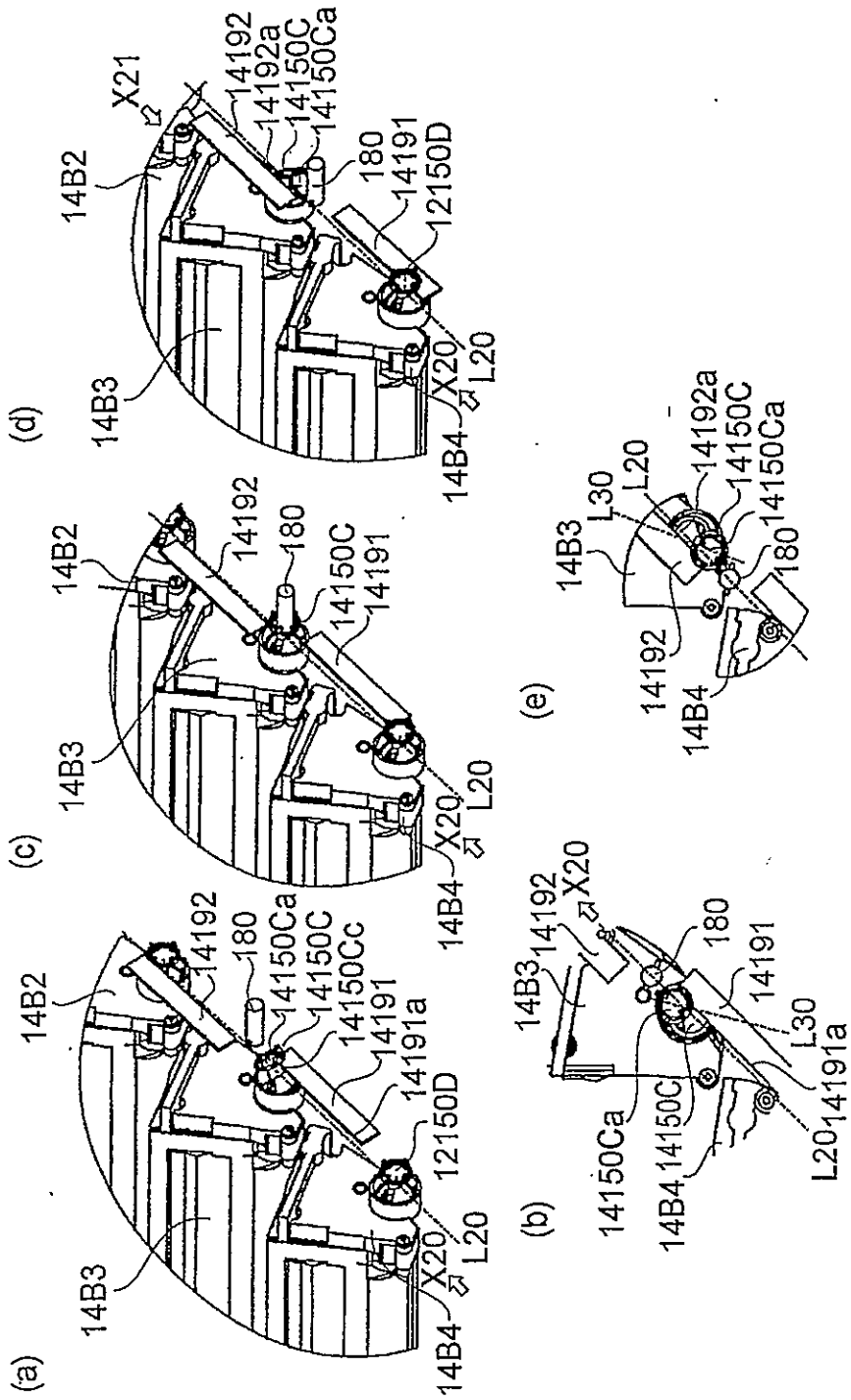

(a)
14B3
14B2
14192
180
14150Ca
14150C
14150Cc
14191
14191a
12150D
L20
X20
14B4
(b)
14B3
14192
X20
180
14191
L30
14150Ca
14150C
14B4
L20
14191a
(c)
14B3
14B2
14192
180
14150C
14191
X20
L20
14B4
(d)
14B3
14B2
X21
14192
14192a
14150C
14150Ca
180
14191
12150D
L20
X20
14B4
(e)
14B3
L30
L20
14192a
14150C
14150Ca
180
14192
14B4

FIG.74

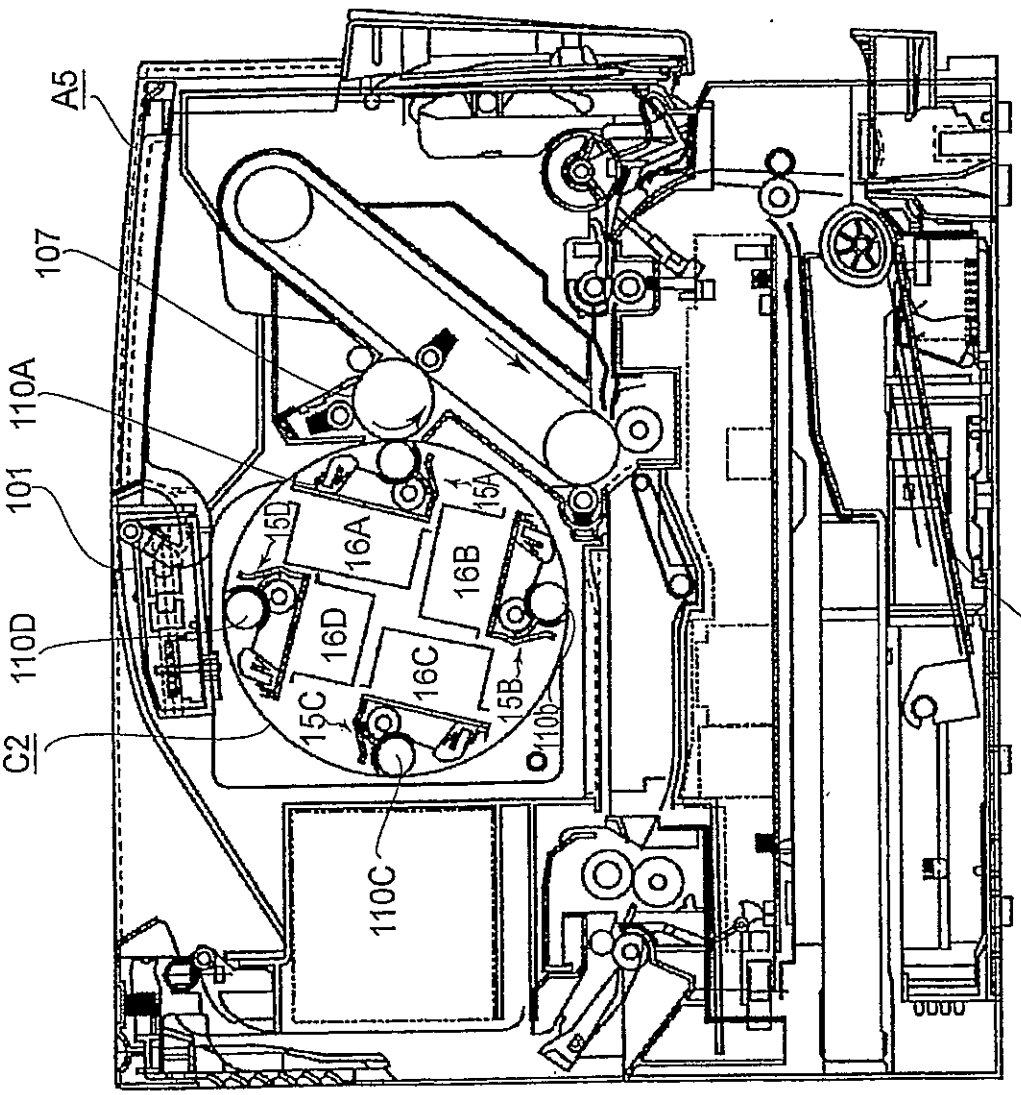

A5
107
110A
101
110D
C2
15D
16A
15A
16B
16D
16C
15C
15B
110B
110C
S

FIG.75

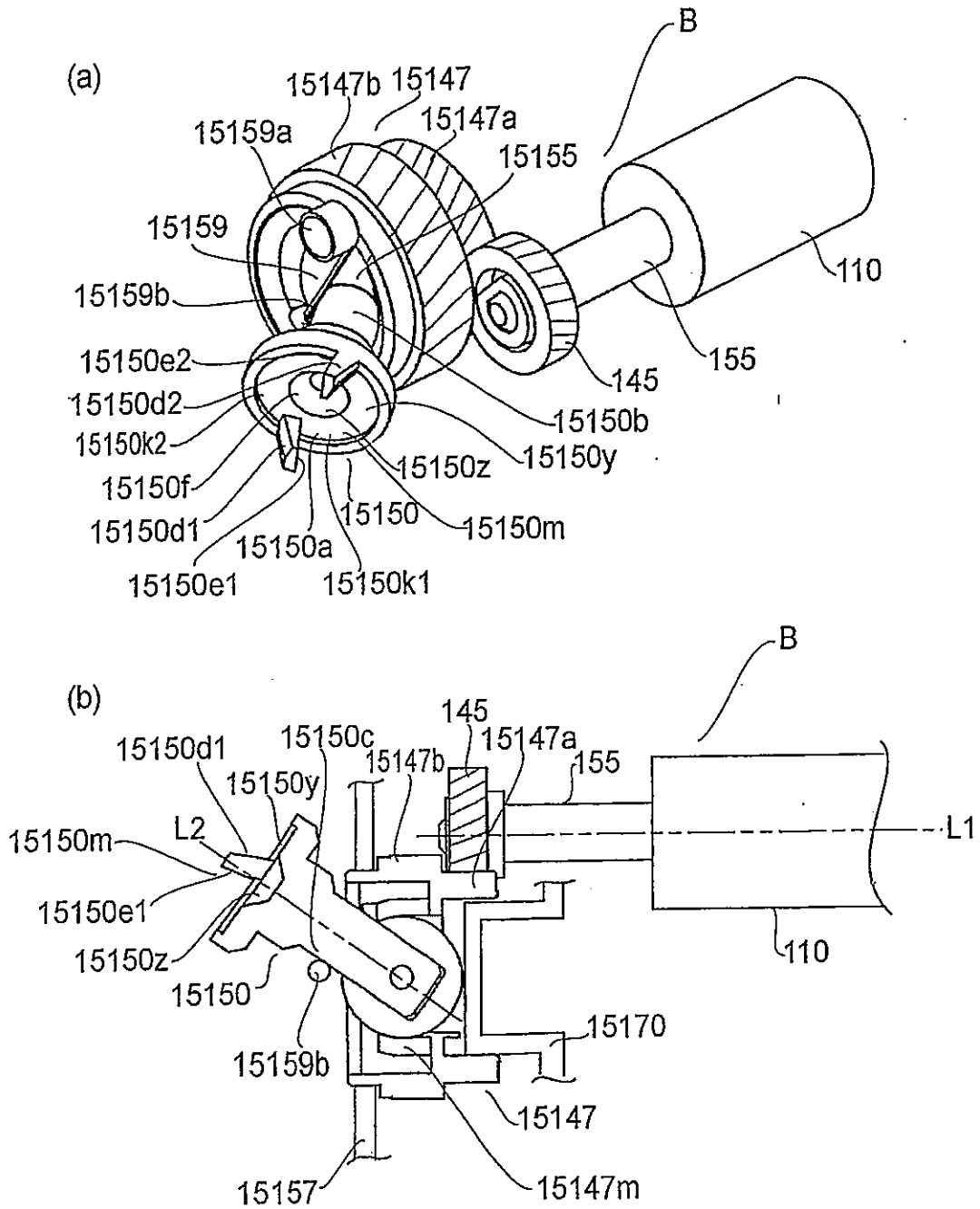
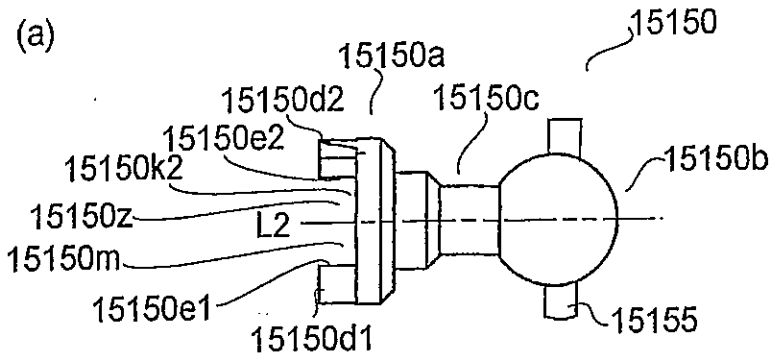

(a)
B
15147b
15147
15147a
15159a
15155
15159
110
15159b
15150e2
155
145
15150d2
15150b
15150k2
15150y
15150z
15150f
15150
15150m
15150d1
15150a
15150e1
15150k1
(b)
B
145
15150d1
15150c
15147a
15147b
155
15150y
15150m
L2
L1
15150e1
110
15150z
15150
15170
15159b
15147
15157
15147m

FIG.76


(a)
15150
15150a
15150d2
15150c
15150e2
15150k2
15150b
15150z
L2
15150m
15150e1
15150d1
15155

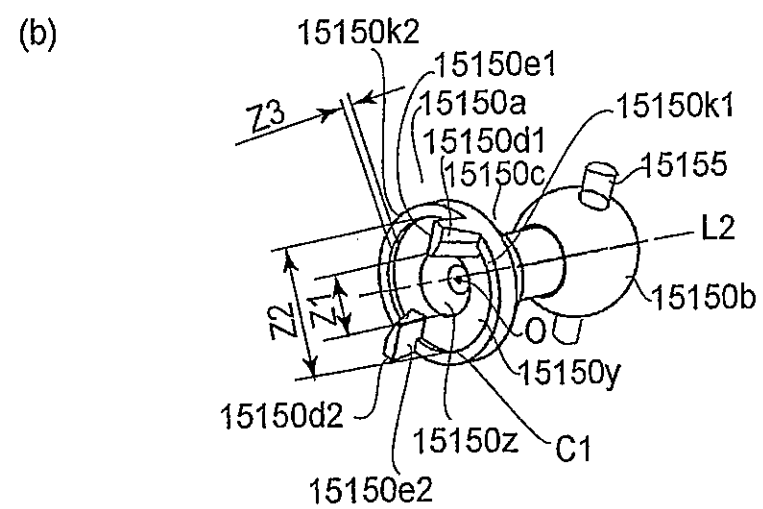

(b)
15150k2
15150e1
Z3
15150a
15150k1
15150d1
15150c
15155
L2
Z2
Z1
15150b
O
15150y
15150d2
15150z
C1
15150e2

FIG.77

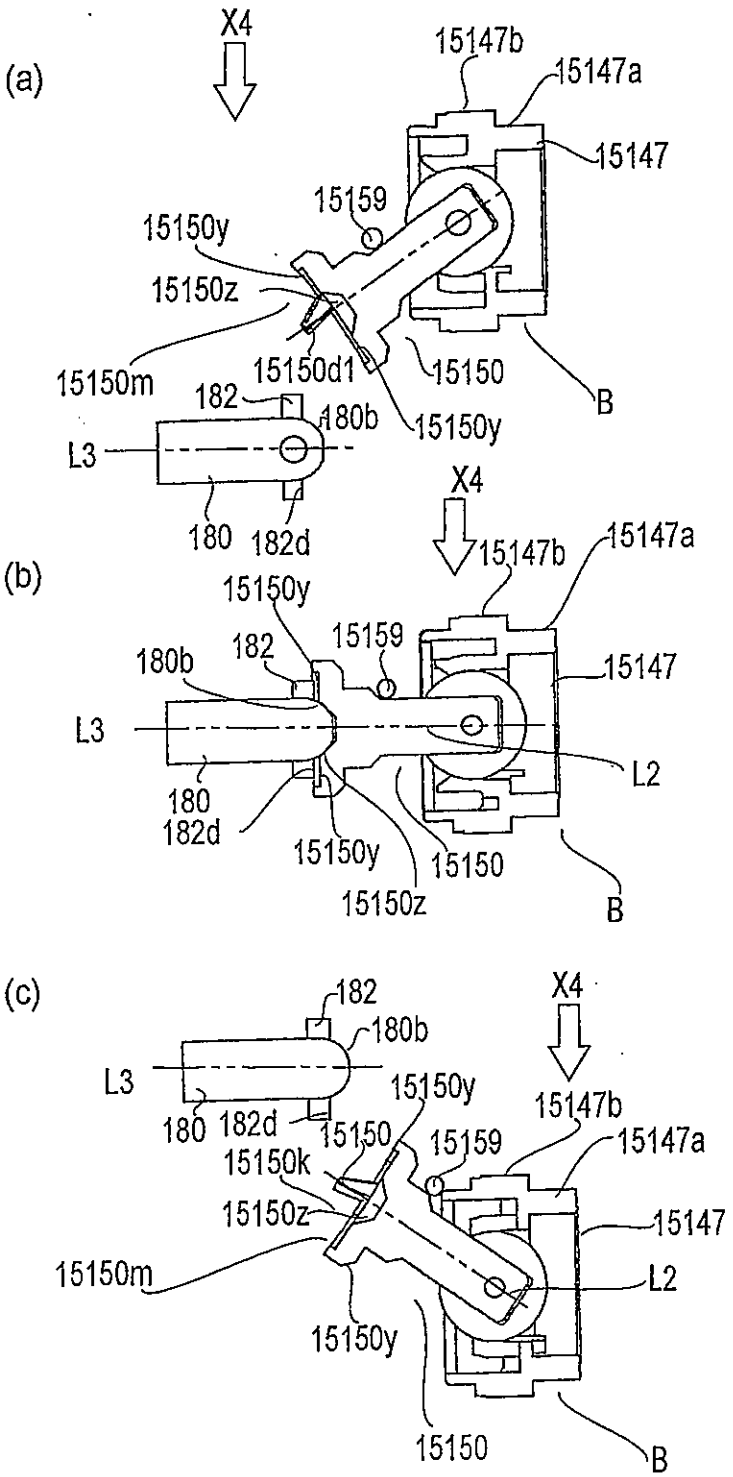

(a)
X4
15147b
15147a
15147
15159
15150y
15150z
15150m
15150d1
15150
B
182
180b
15150y
L3
180
182d
(b)
X4
15147b
15147a
15150y
180b
182
15159
15147
L3
L2
180
182d
15150y
15150
15150z
B
(c)
182
180b
X4
L3
15150y
15147b
180
182d
15150
15159
15147a
15150k
15150z
15147
15150m
L2
15150y
15150
B

FIG.78