Fig. 1A

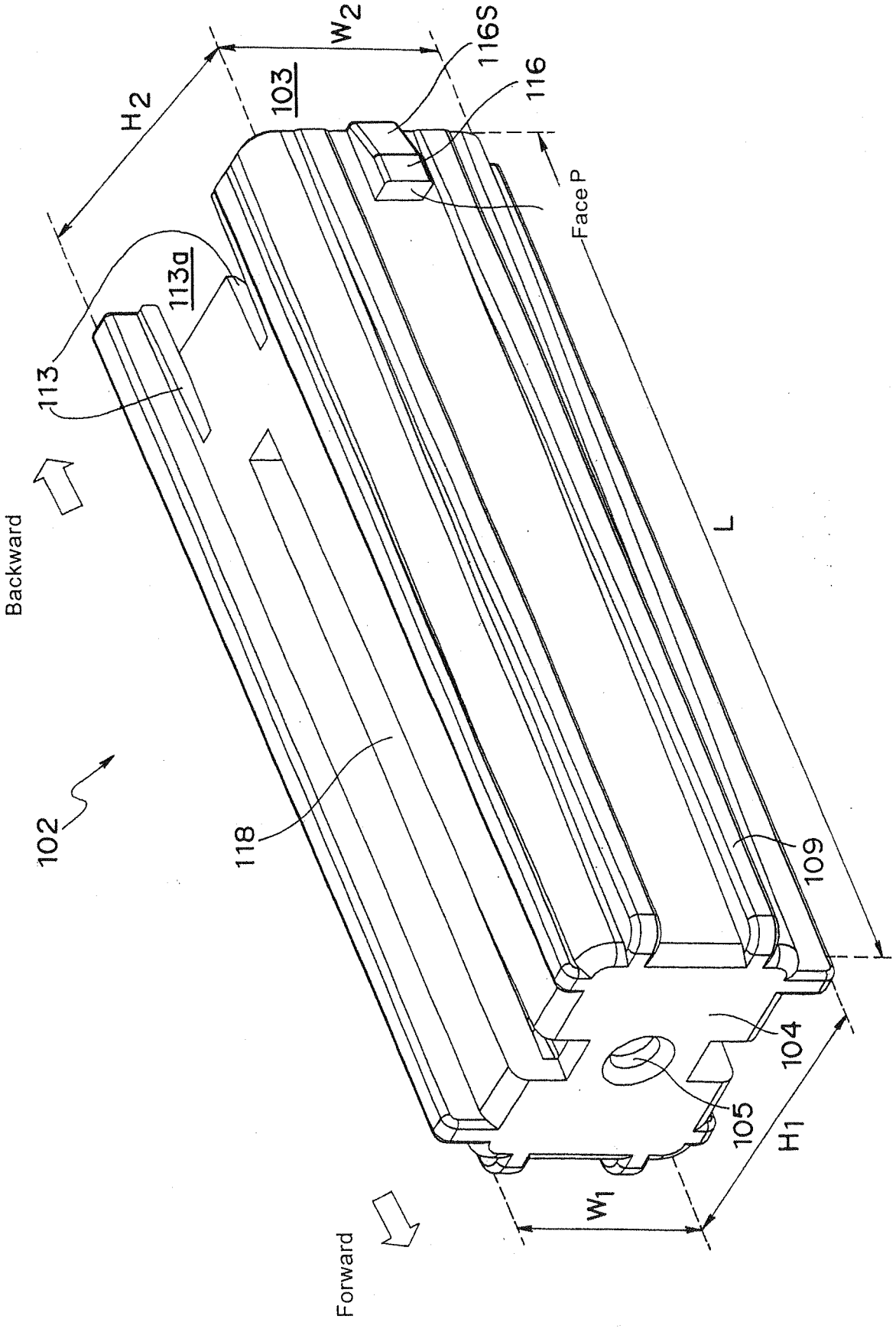

W2
116S
116
103
H2
Face P
113a
113
L
Backward
102
118
109
104
105
H1
W1
Forward

Fig. 1B

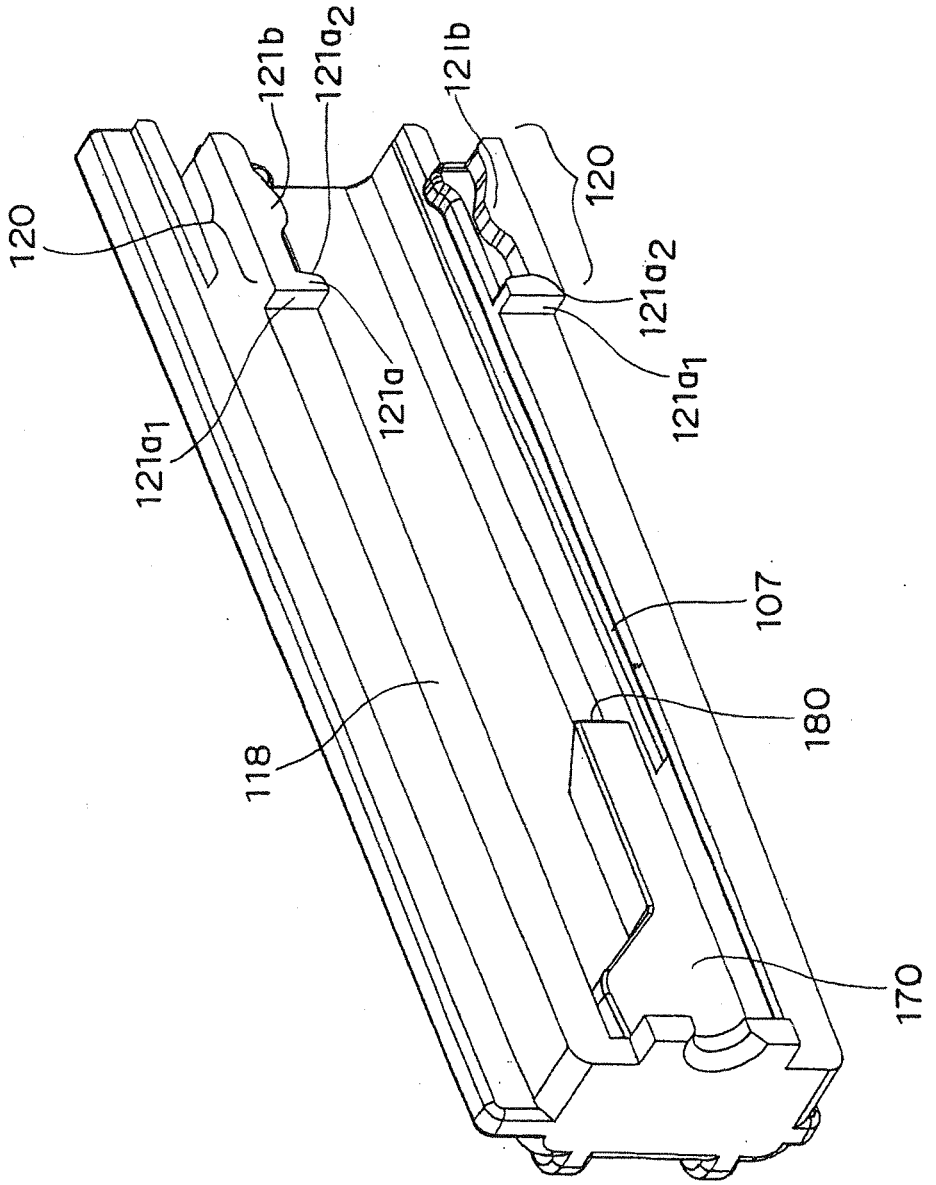

121b
121a2
121b
120
120
121a2
121a1
121a
121a1
107
180
118
170

Fig. 1C

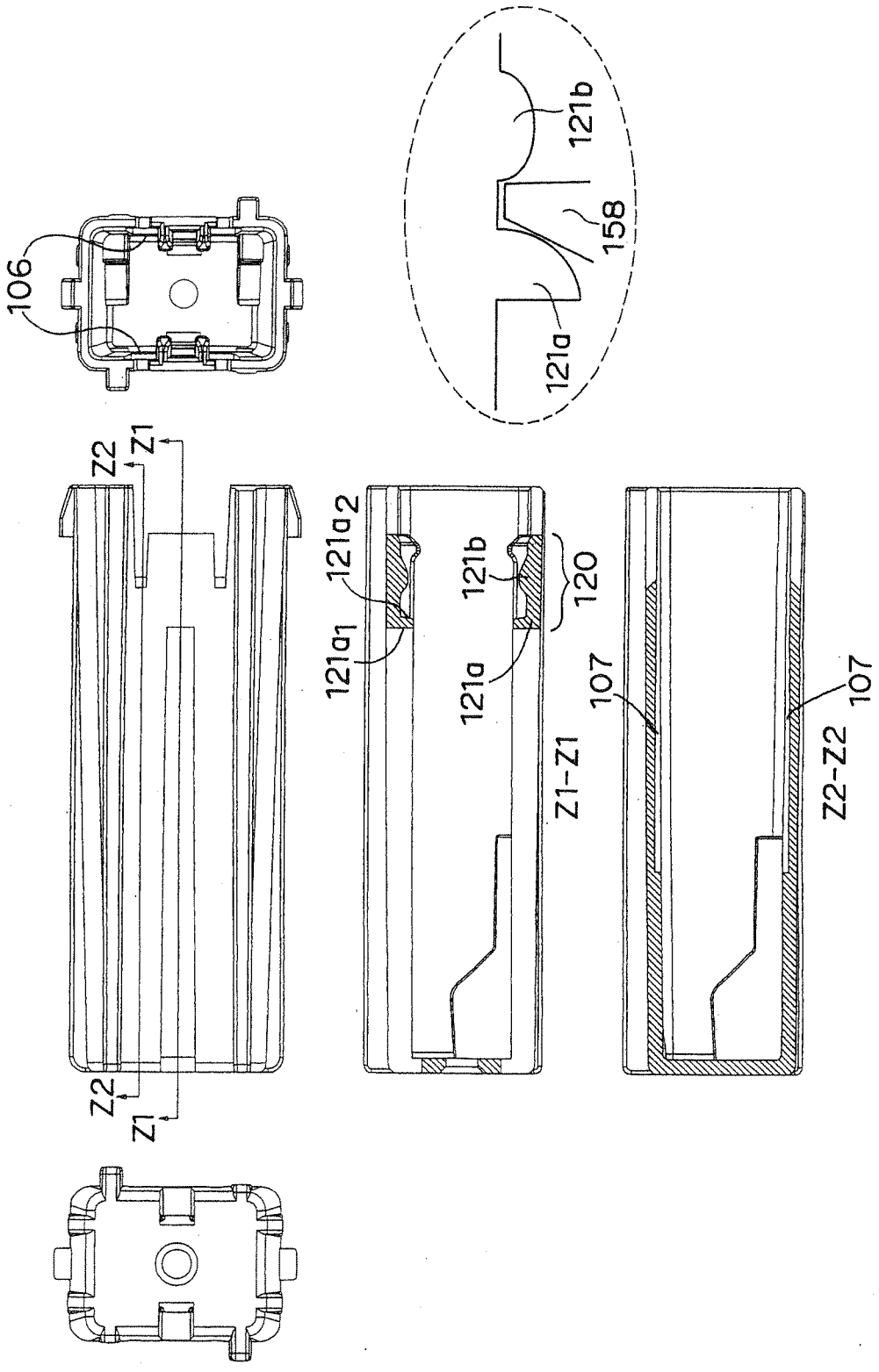

106
121b
158
121a
Z2
Z1
121a2
121b
120
121a1
121a
107
107
Z1-Z1
Z2-Z2
Z2
Z1

Fig. 1D

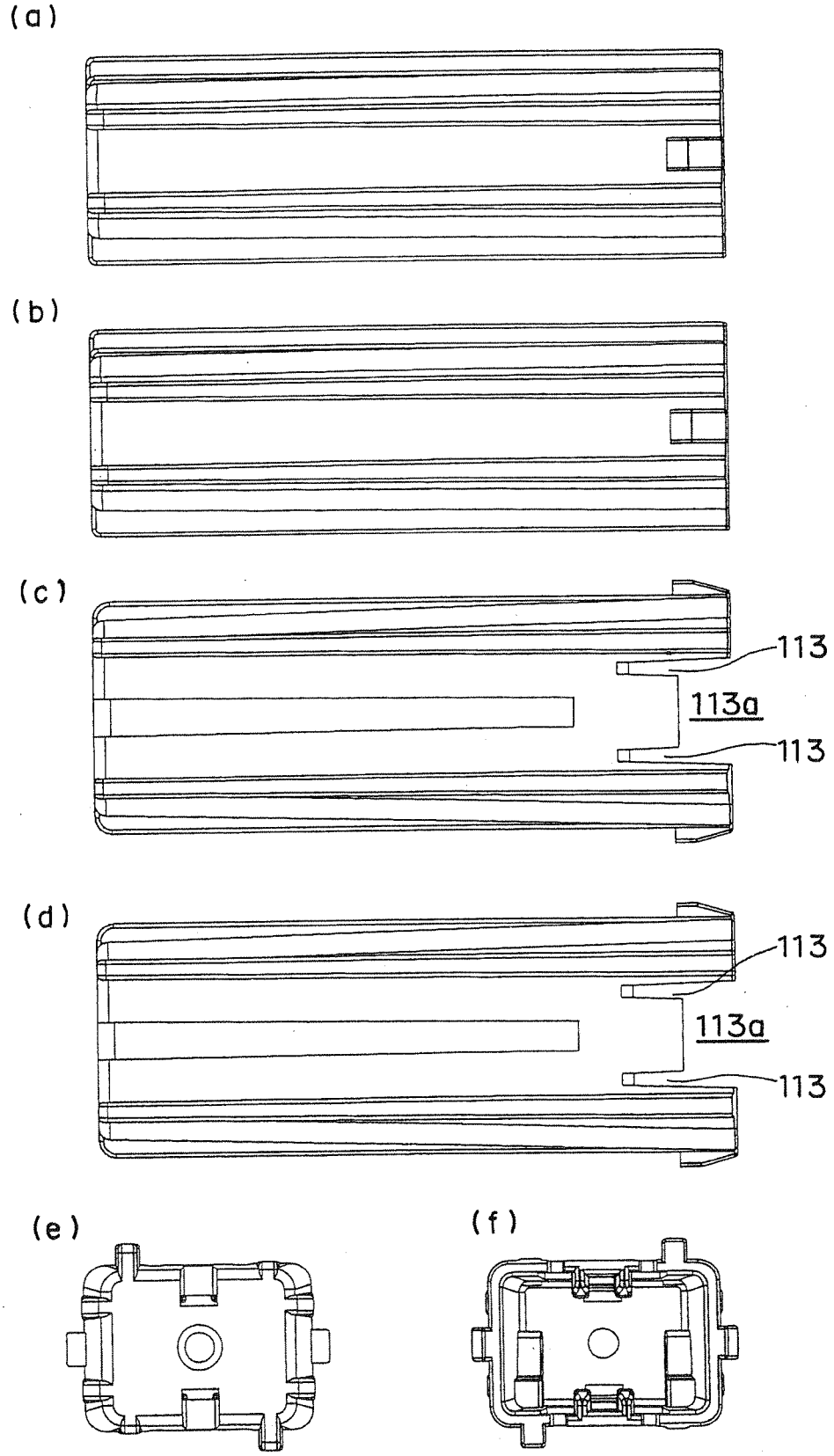


Fig. 2A

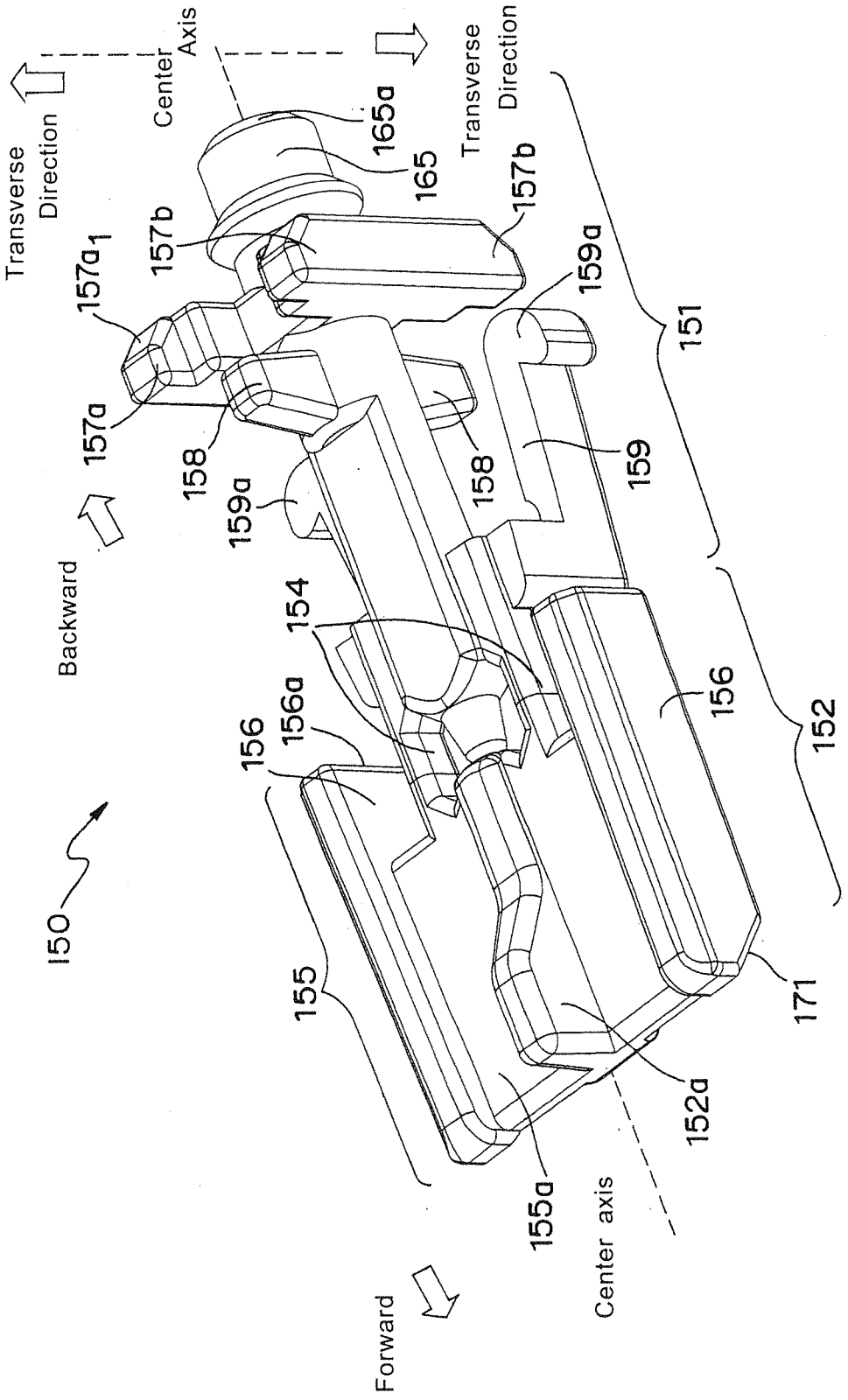

Transverse Direction
Center Axis
Transverse Direction
165a
165
157b
157b
157a1
159a
151
157a
158
158
159
159a
Backward
154
156a
156
156
152
150
155
171
152a
155a
Center axis
Forward

Fig. 2B

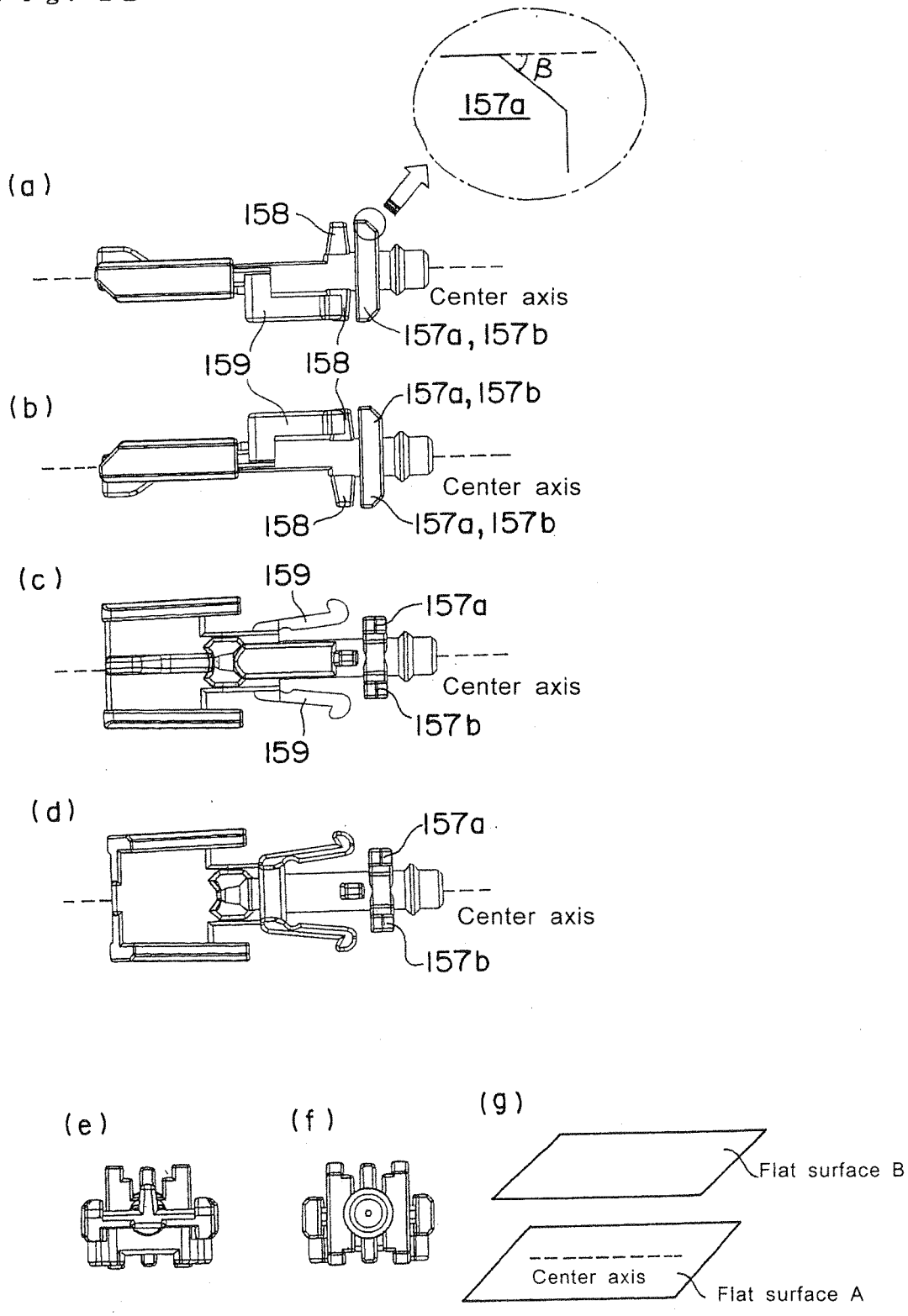

β
157a
(a)
158
Center axis
157a, 157b
159
158
(b)
157a, 157b
Center axis
158
157a, 157b
(c)
159
157a
Center axis
157b
159
(d)
157a
Center axis
157b
(e)
(f)
(g)
Flat surface B
Center axis
Flat surface A

Fig. 2C

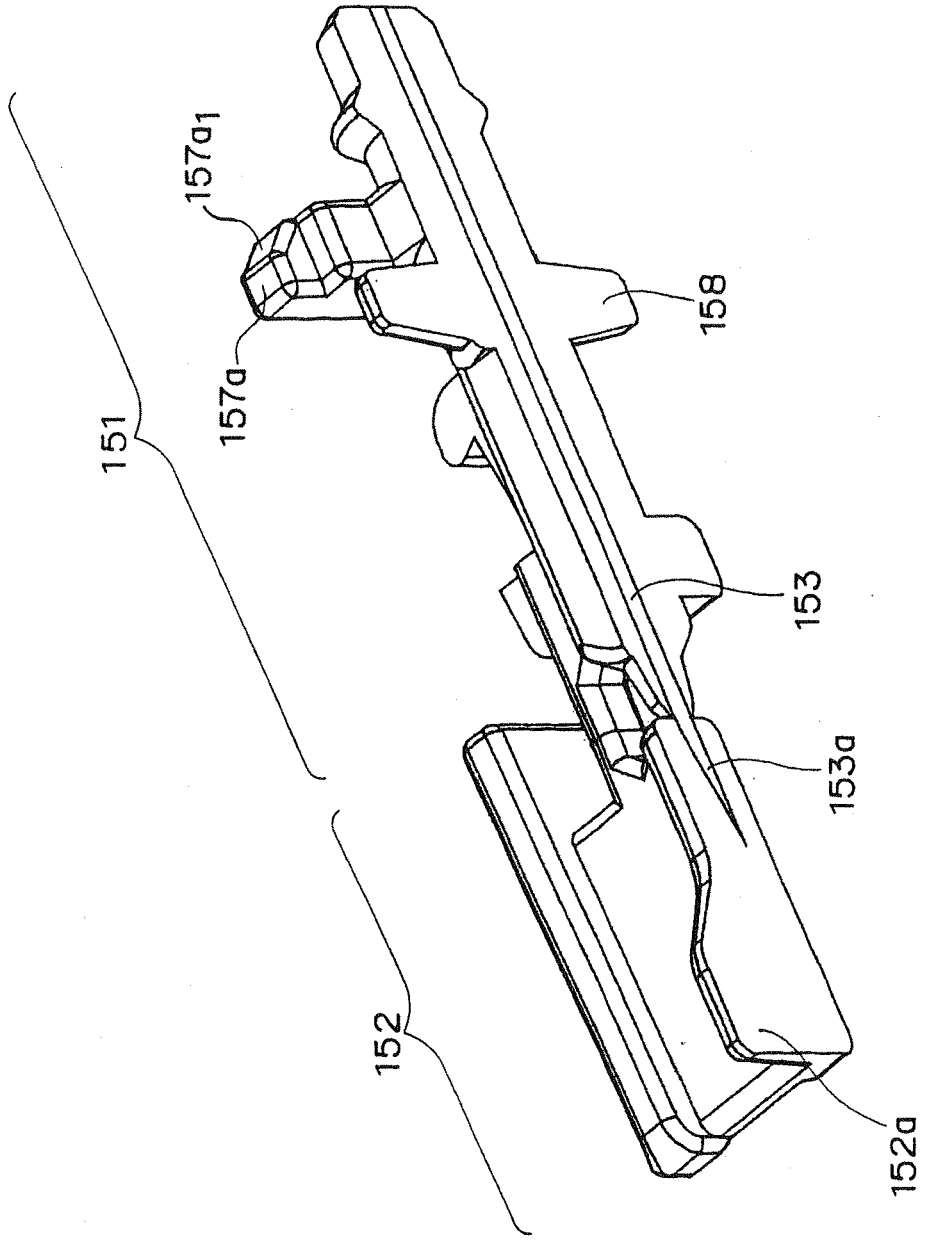


Fig. 3

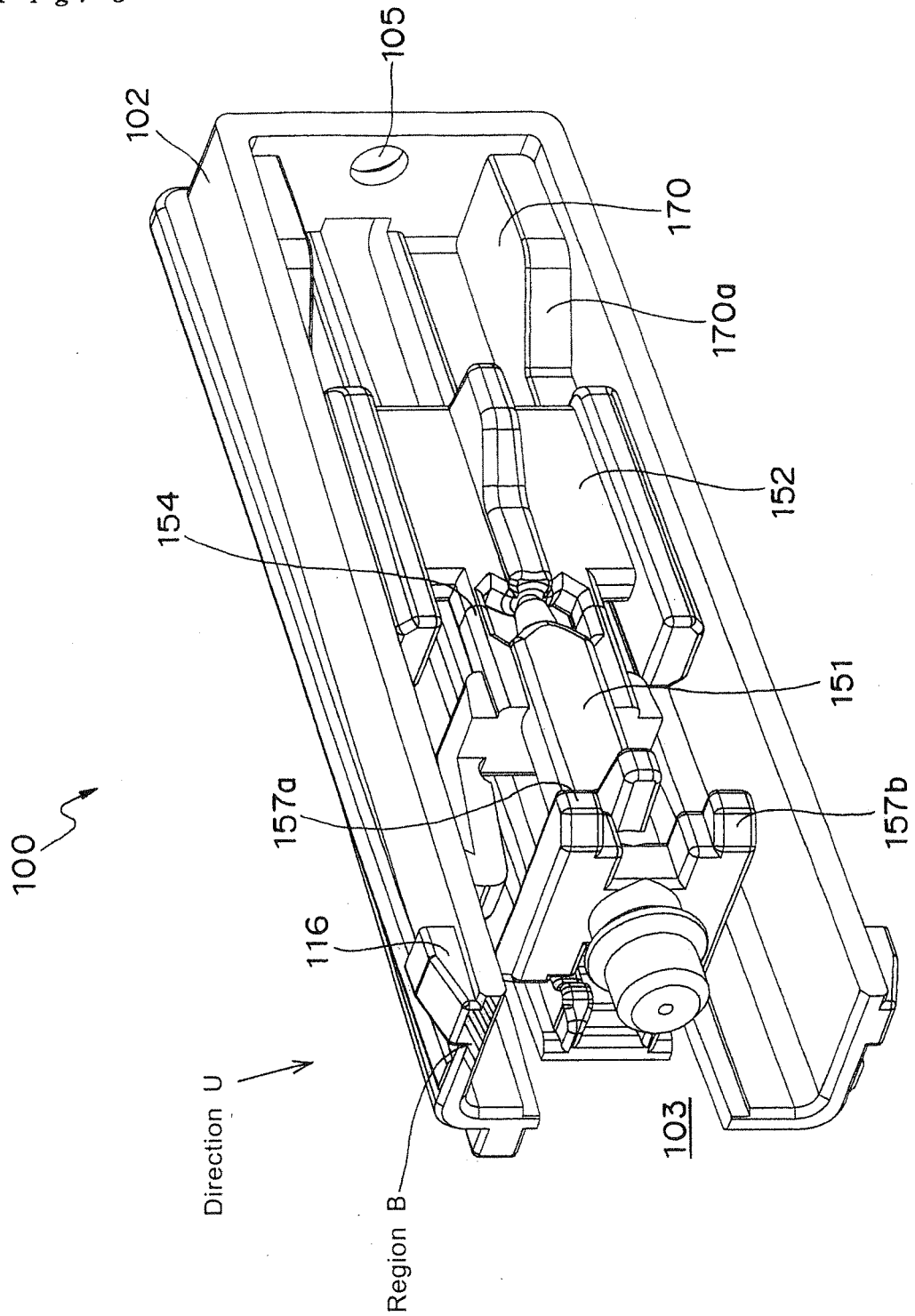

105
102
170
170a
152
154
151
157a
157b
116
100
Direction U
Region B
103

Fig. 4

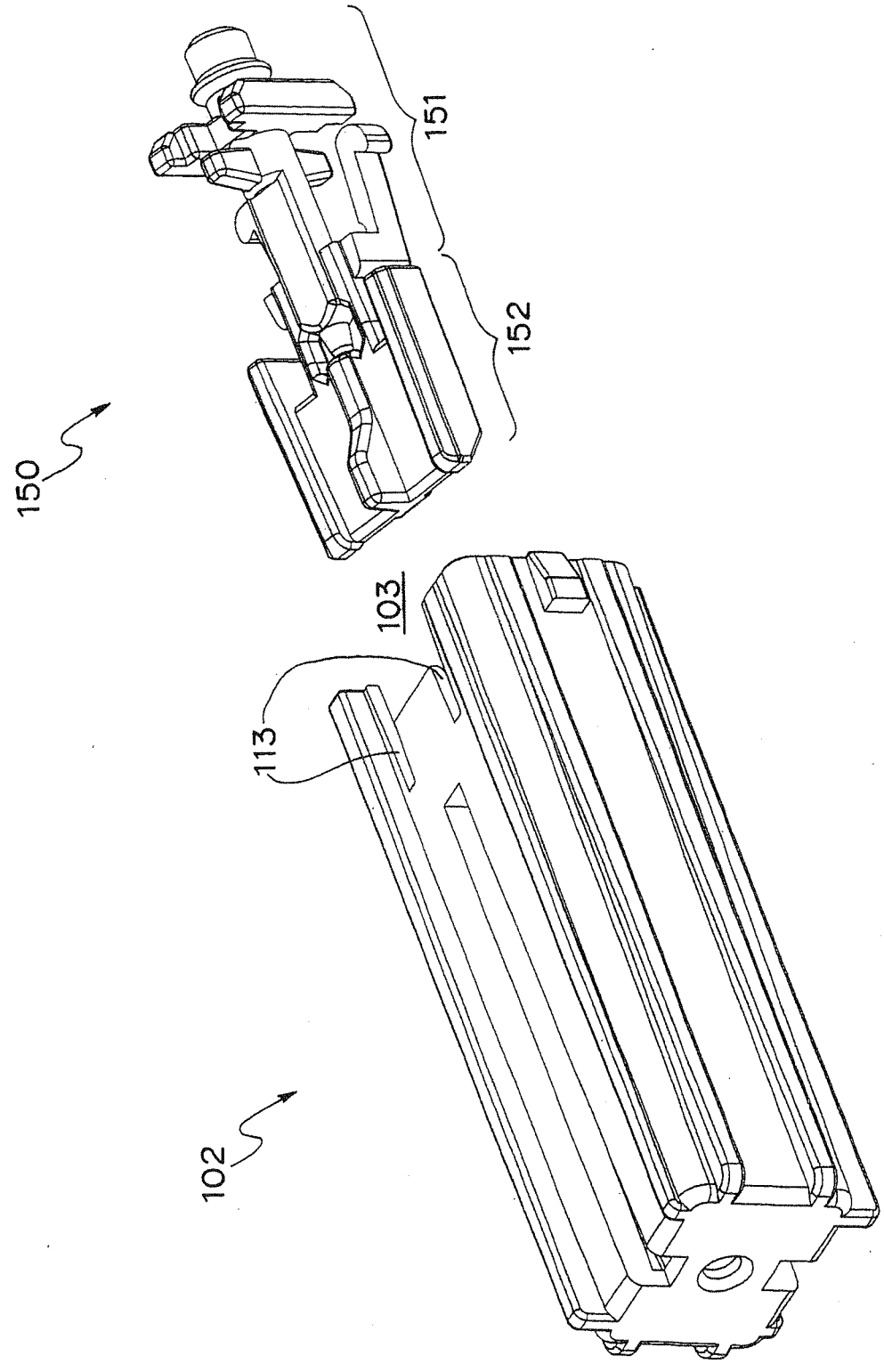


Fig. 5A

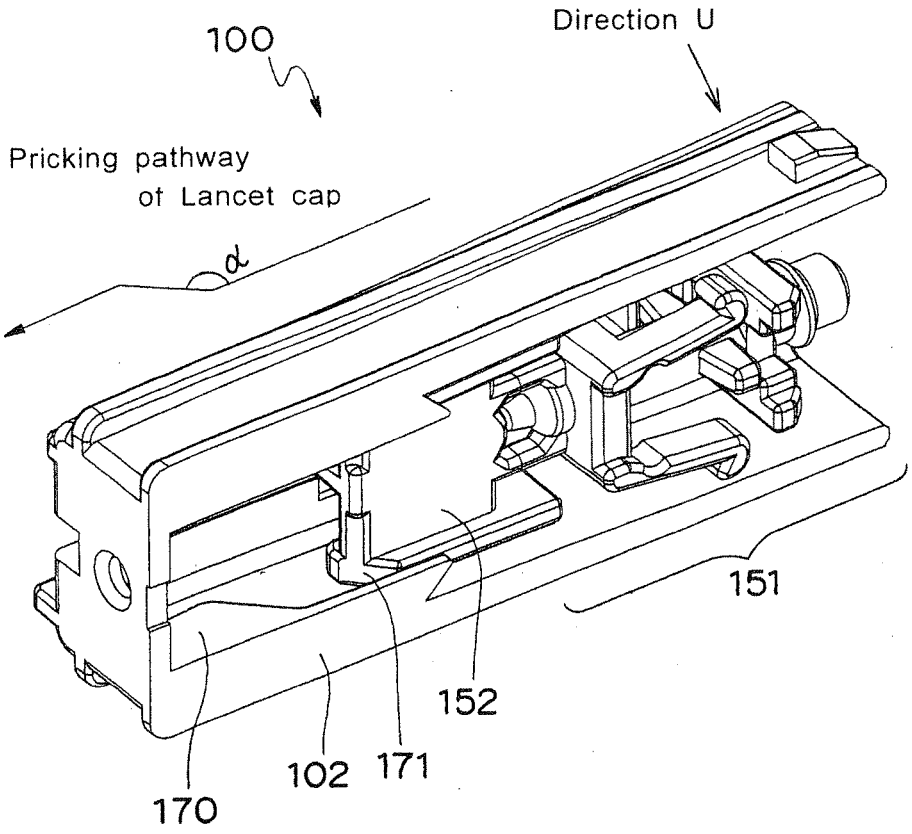

100
Direction U
Pricking pathway
of Lancet cap
α
151
152
102
171
170

Fig. 5B

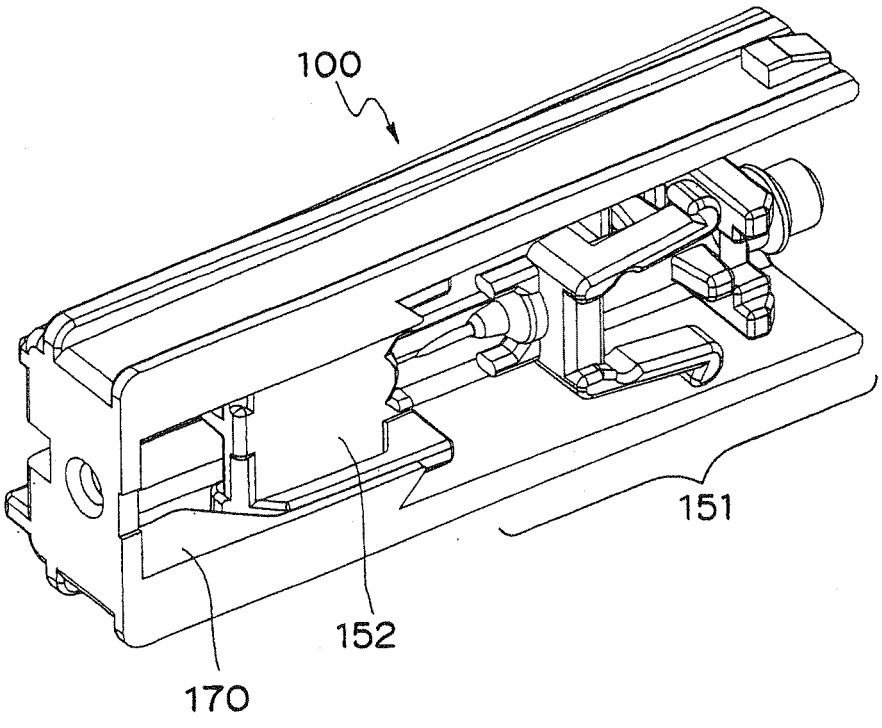

100
151
152
170

Fig. 5C

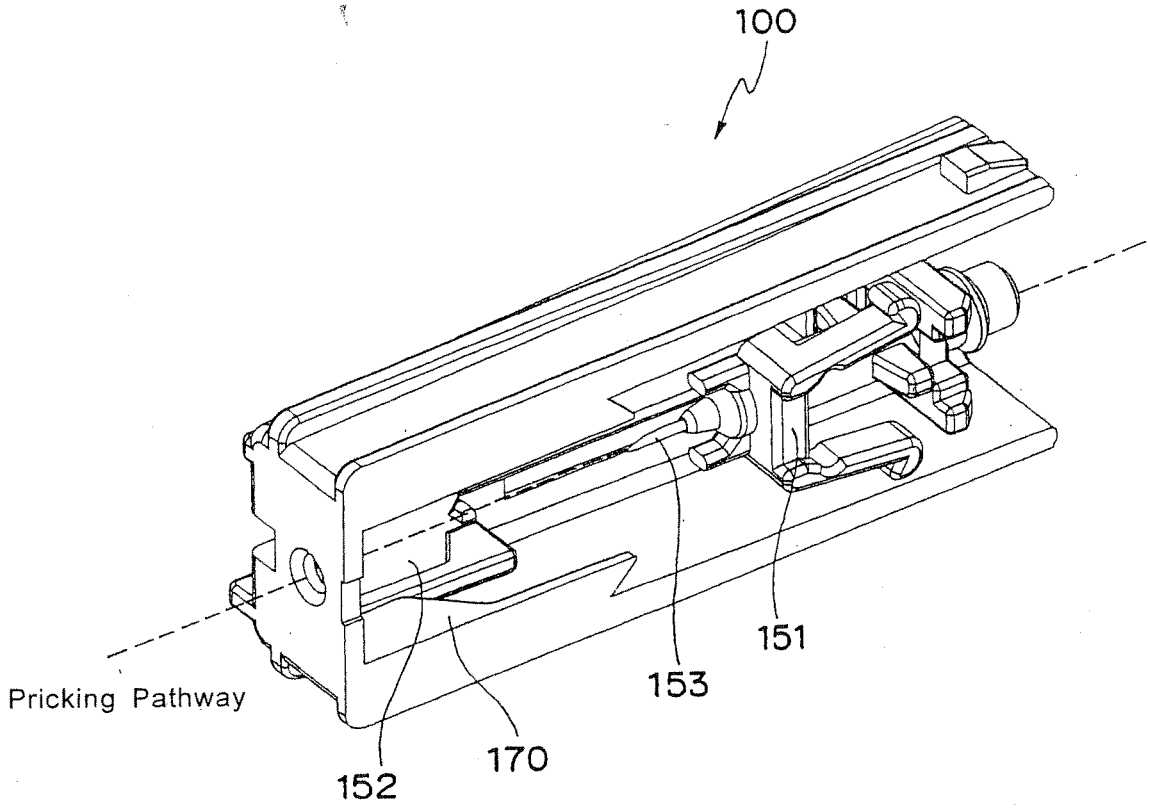

100
151
153
Pricking Pathway
170
152

Fig. 5D

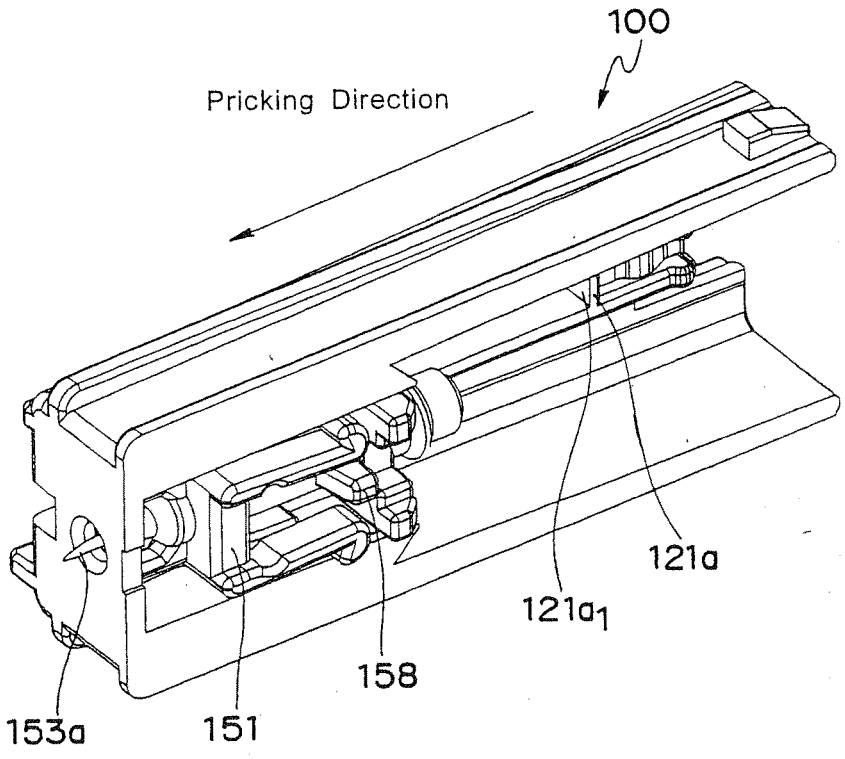

100
Pricking Direction
121a
121a1
158
153a
151

Fig. 5E

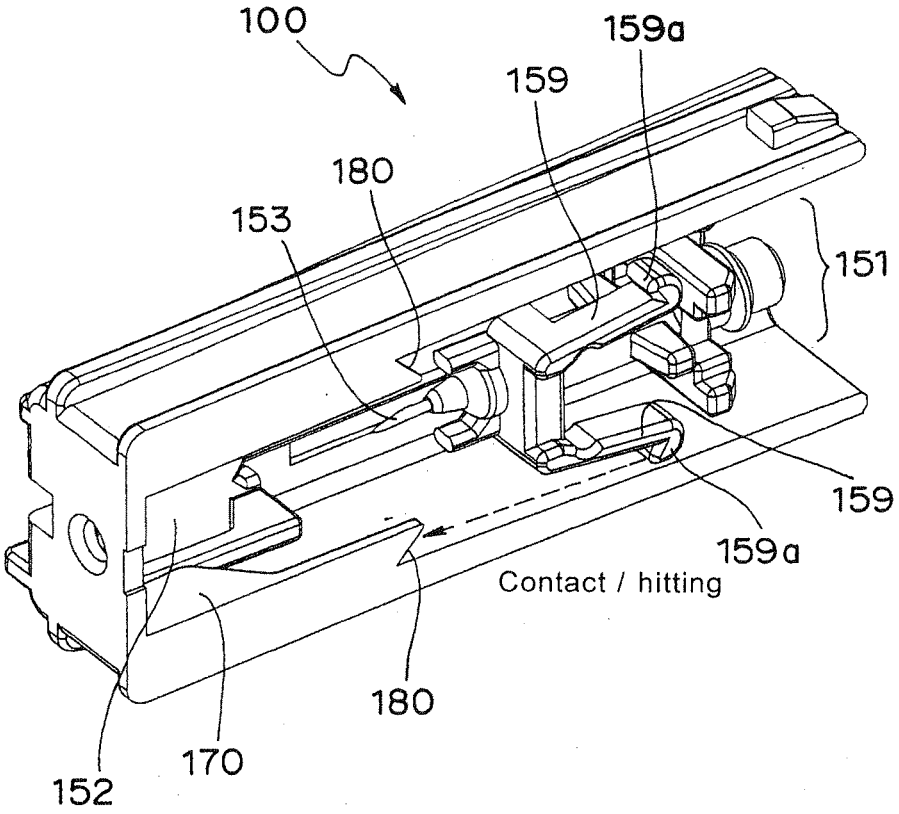


Fig. 6A

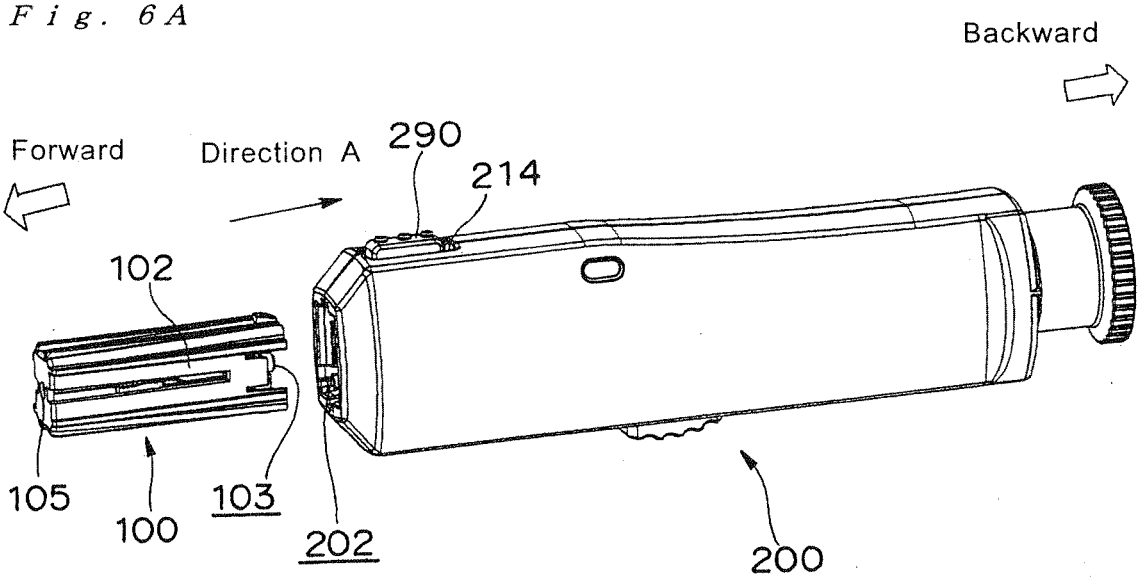

Backward
Forward
Direction A
290
214
102
105
100
103
202
200

Fig. 6B

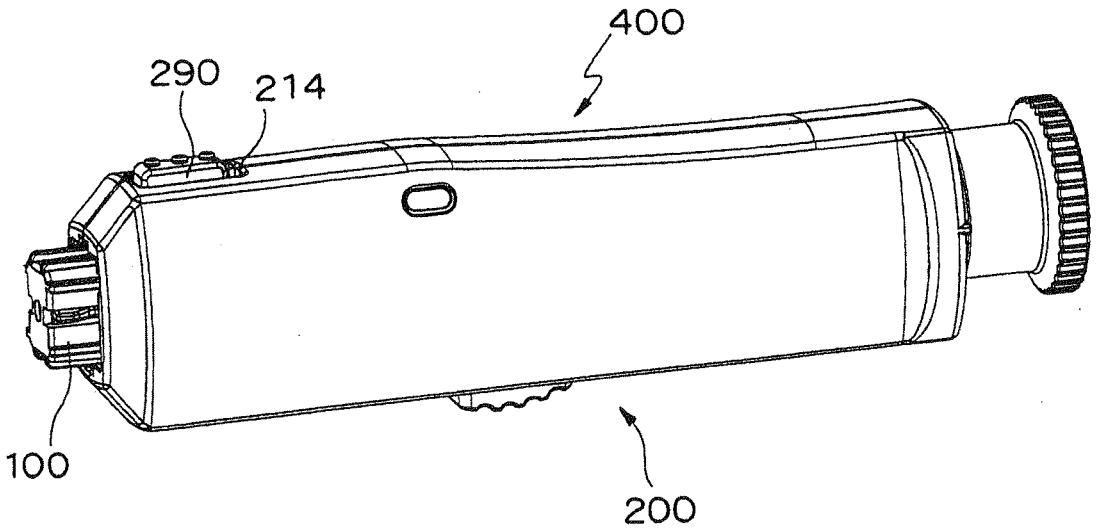

400
290
214
100
200

Fig. 7A

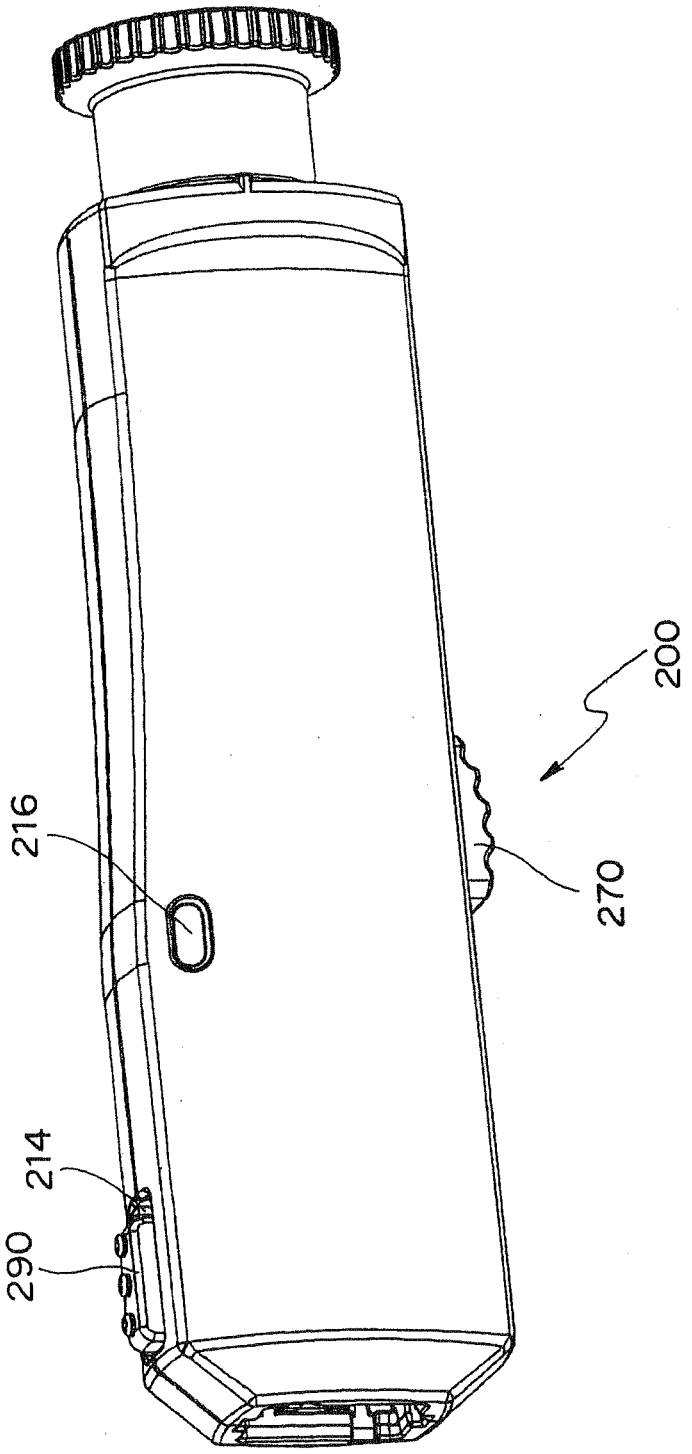


Fig. 7B

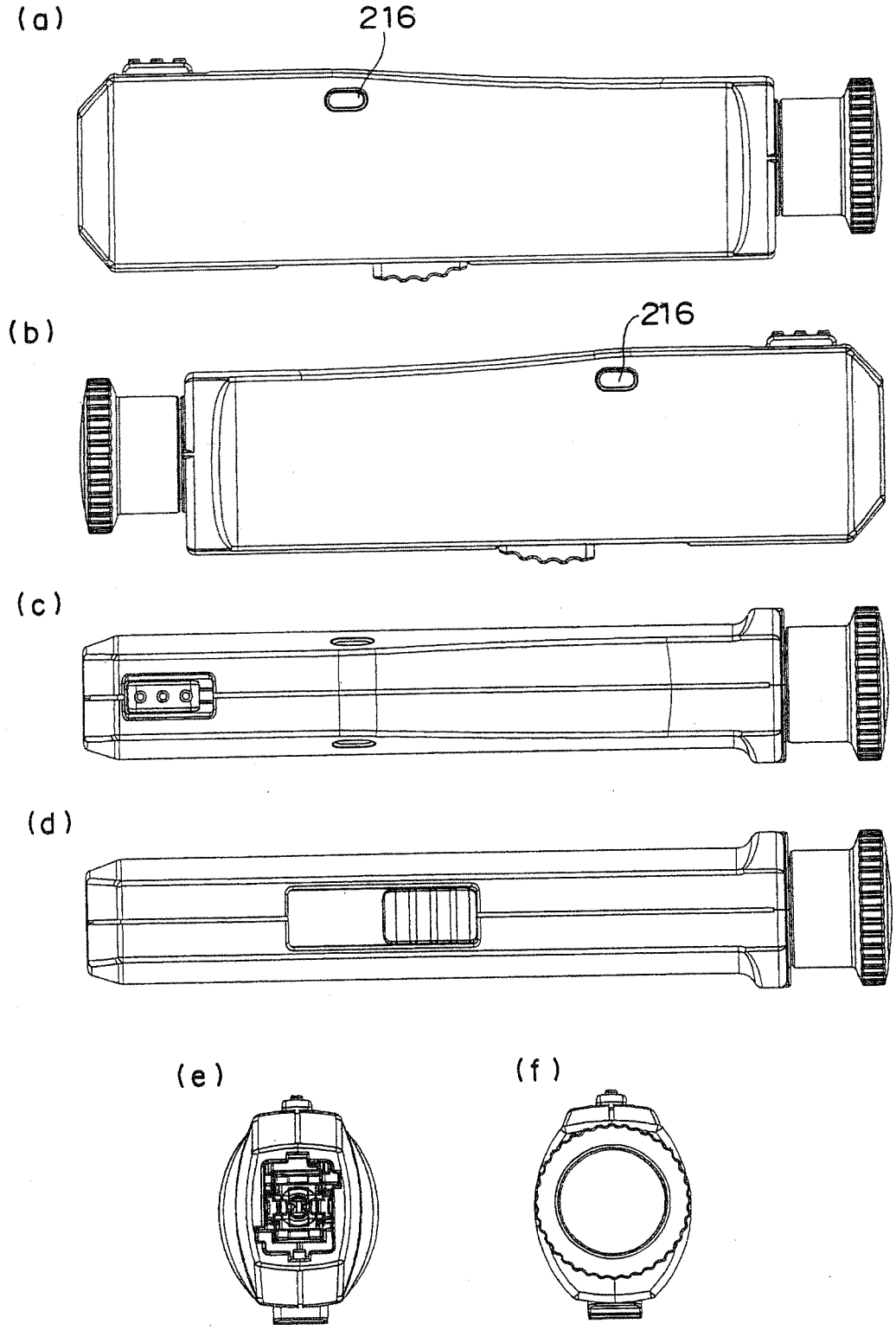


Fig. 7C

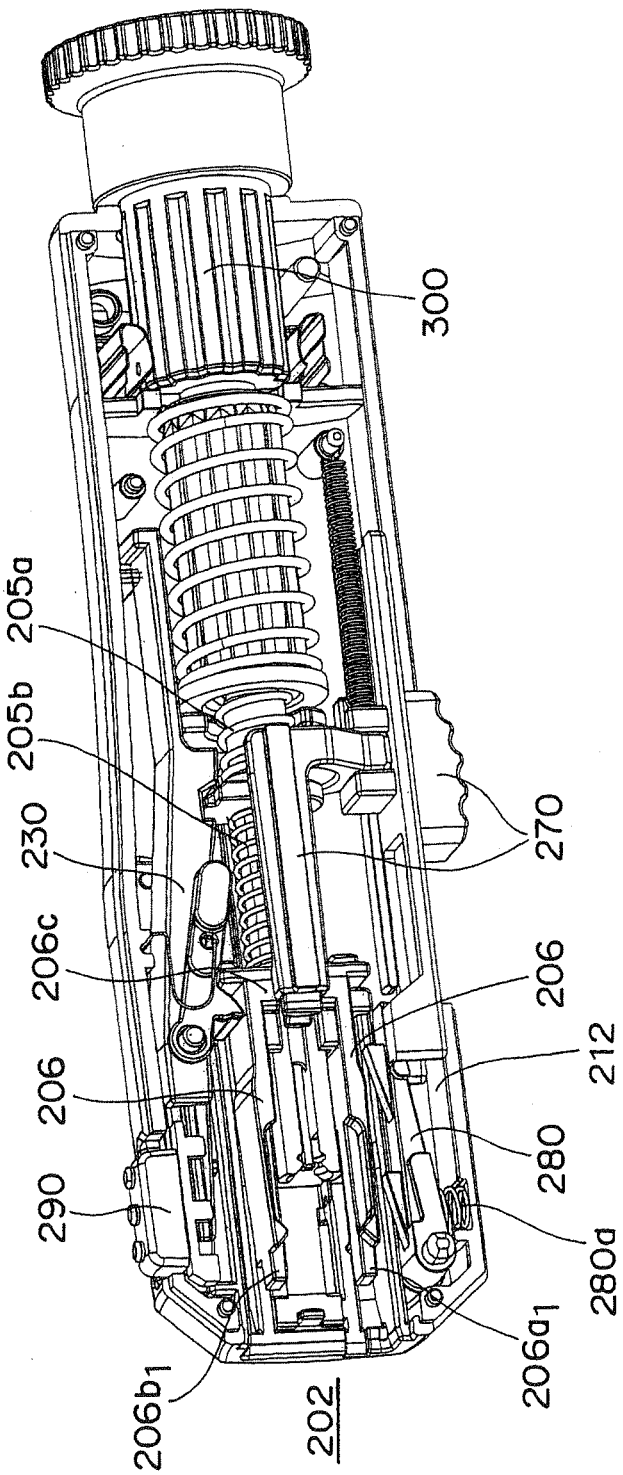

300
205a
205b
230
206c
206
290
206b1
202
270
206
212
280
280a
206a1

Fig. 7D

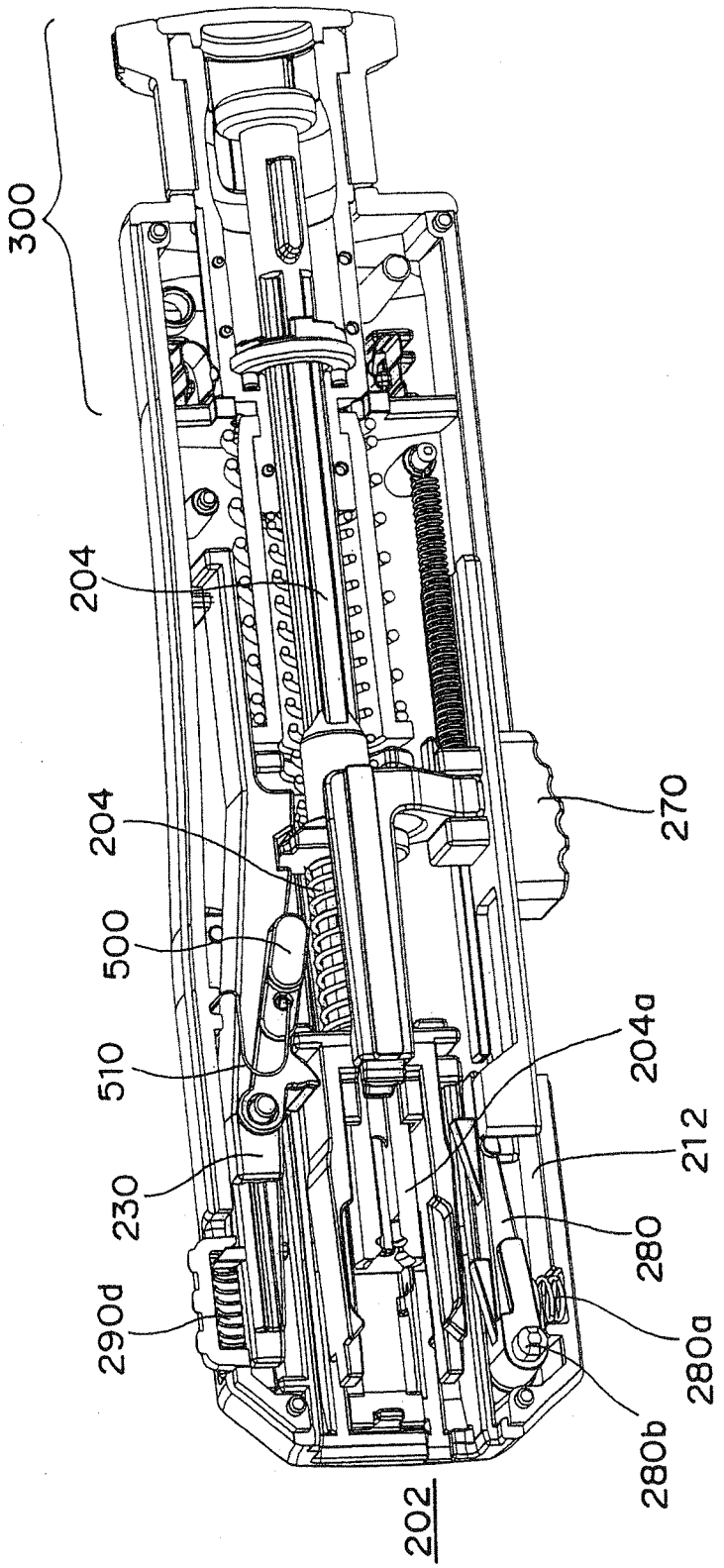


Fig. 8 (a)

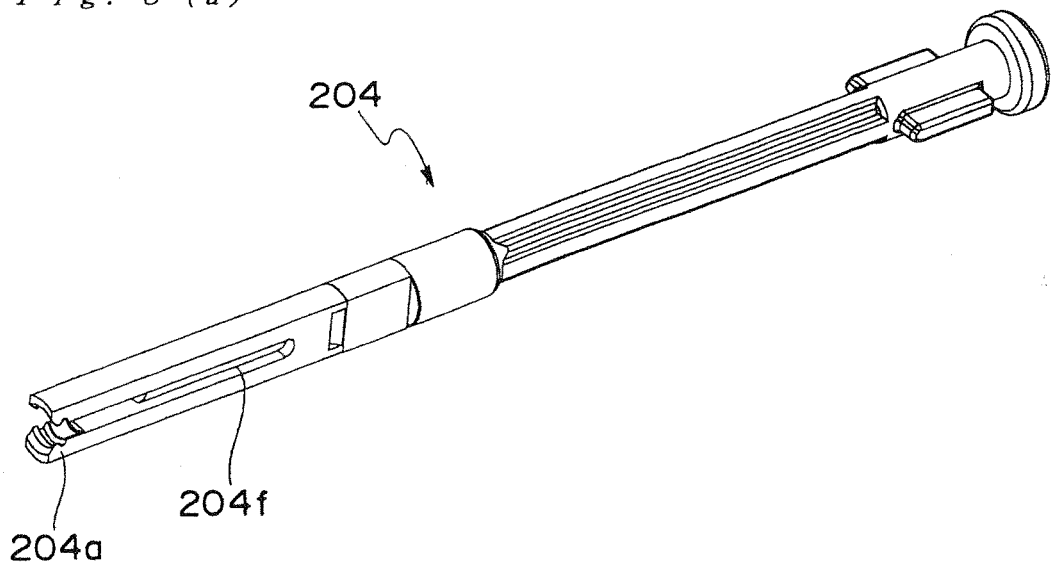


Fig. 8 (b)

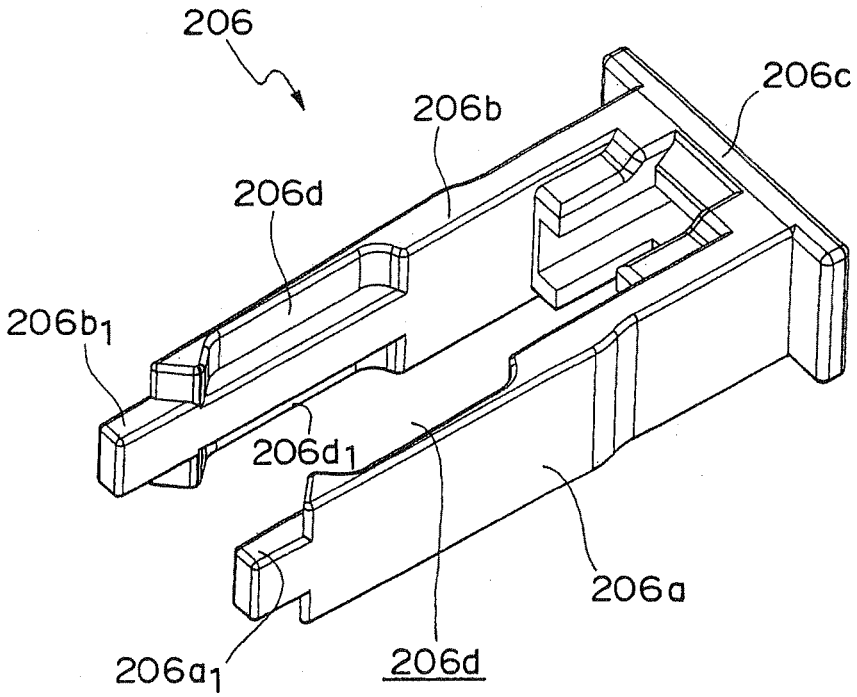


Fig. 8 (c)

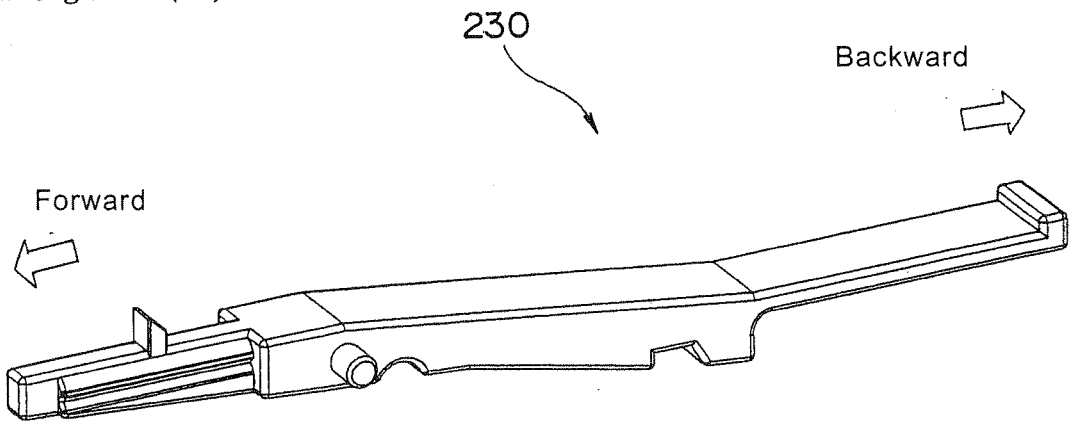


Fig. 8 (d)

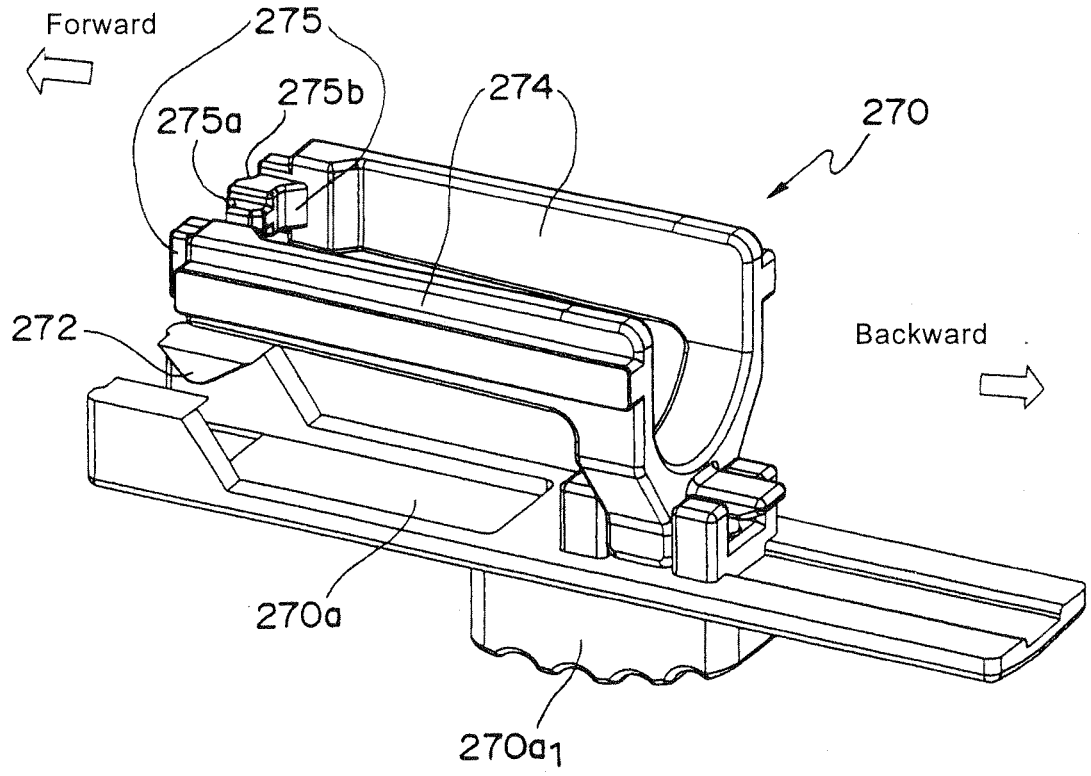

Forward
275
275b
275a
274
270
272
Backward
270a
270a1

Fig. 8 (e)

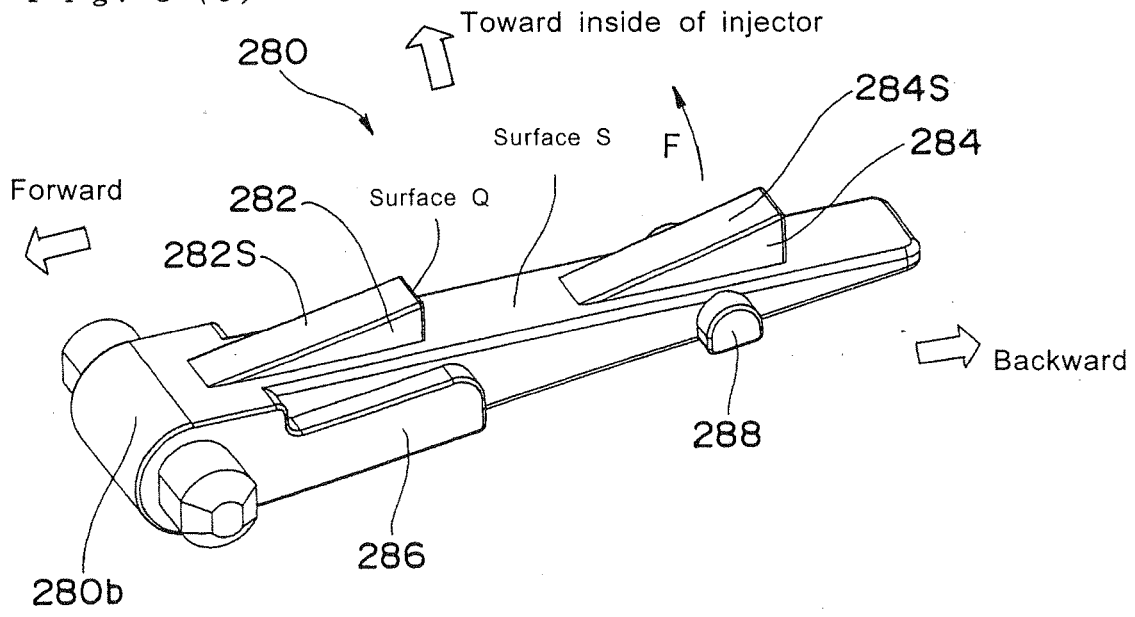

Toward inside of injector
280
284S
Surface S
F
284
Forward
282
Surface Q
282S
Backward
288
286
280b

Fig. 8 (f)

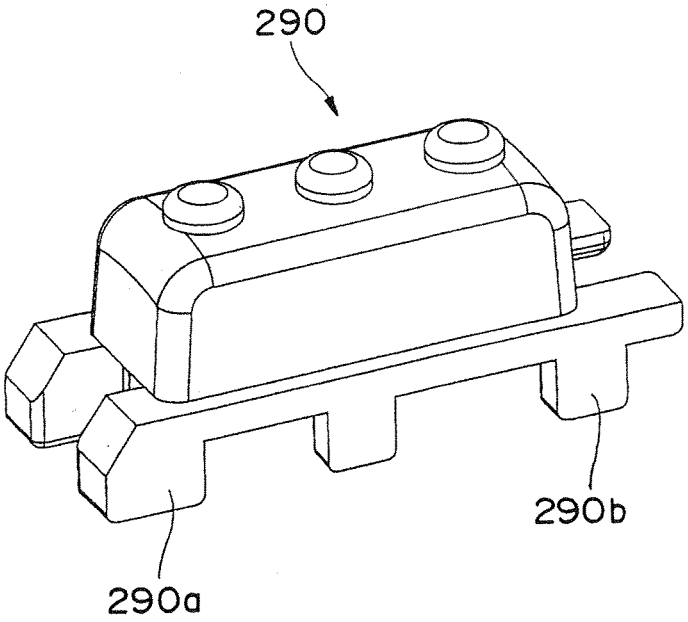


Fig. 9A

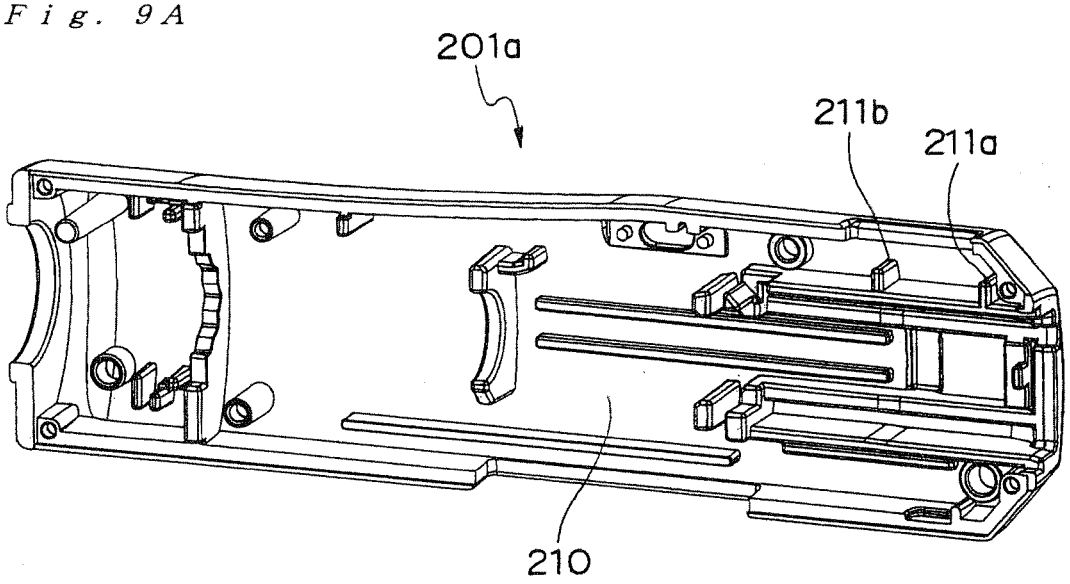


Fig. 9B

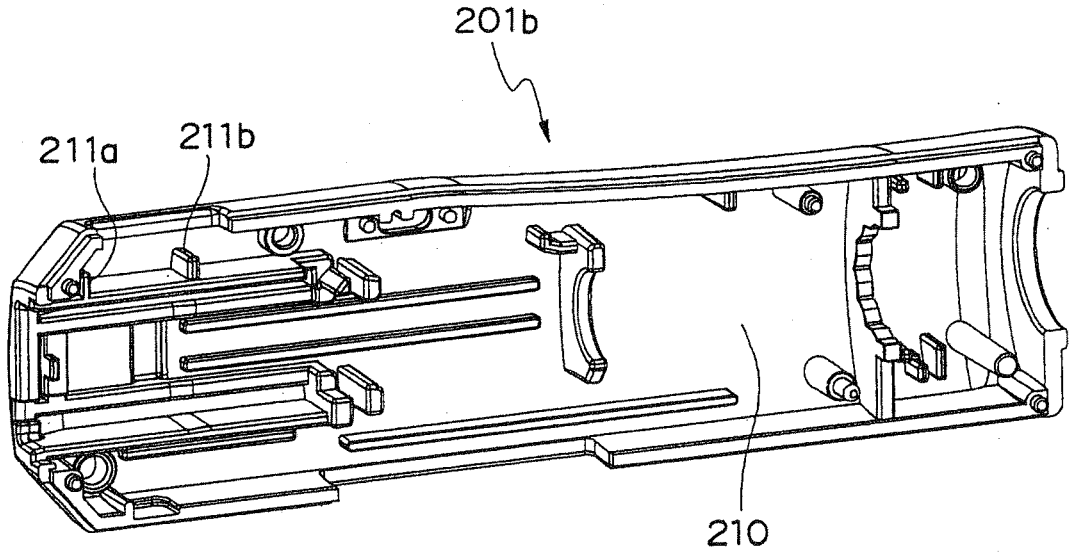


Fig. 10

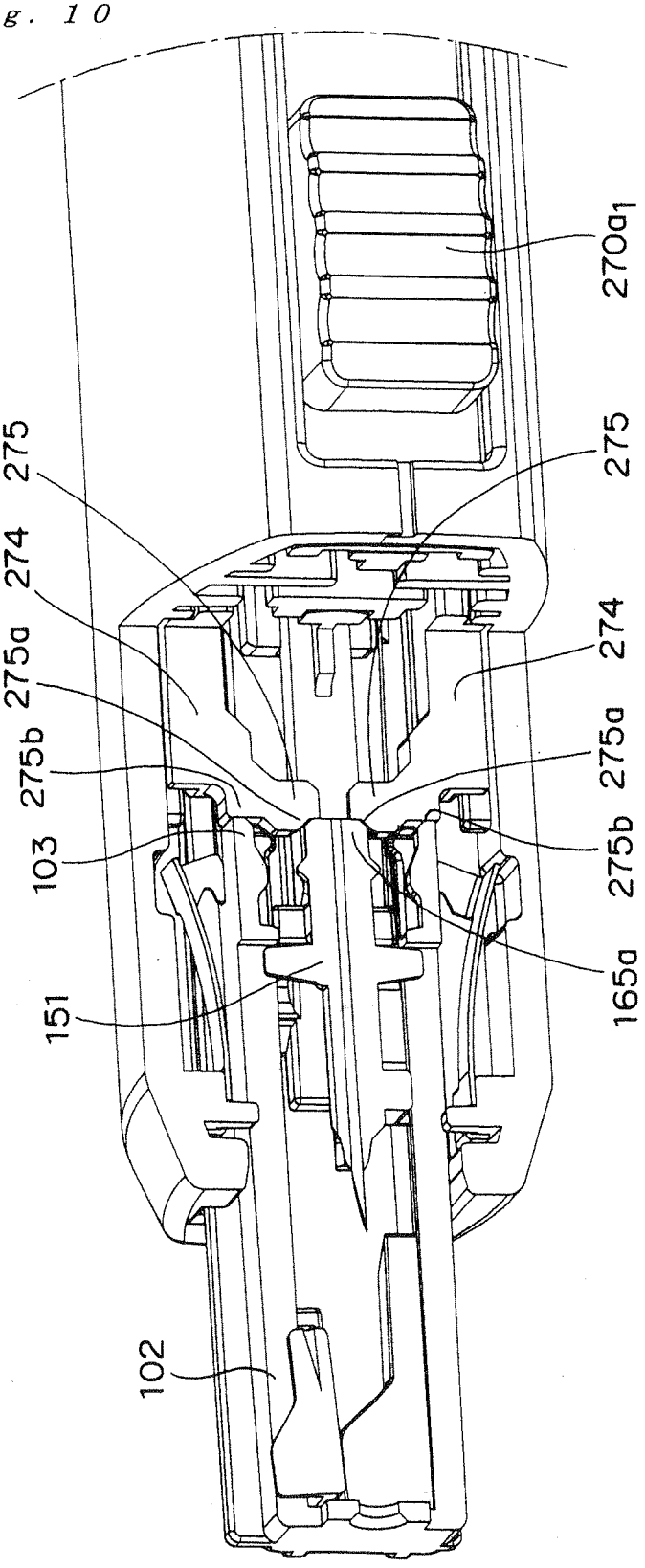
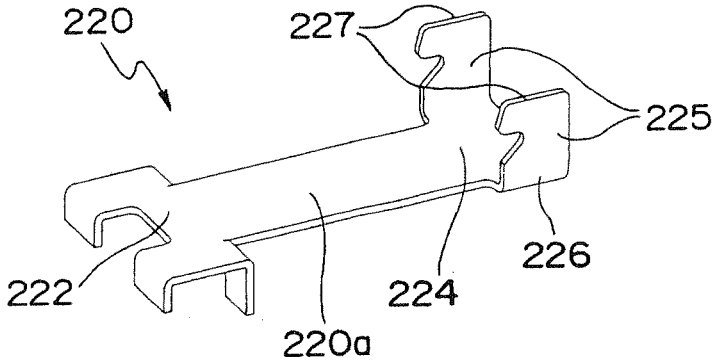
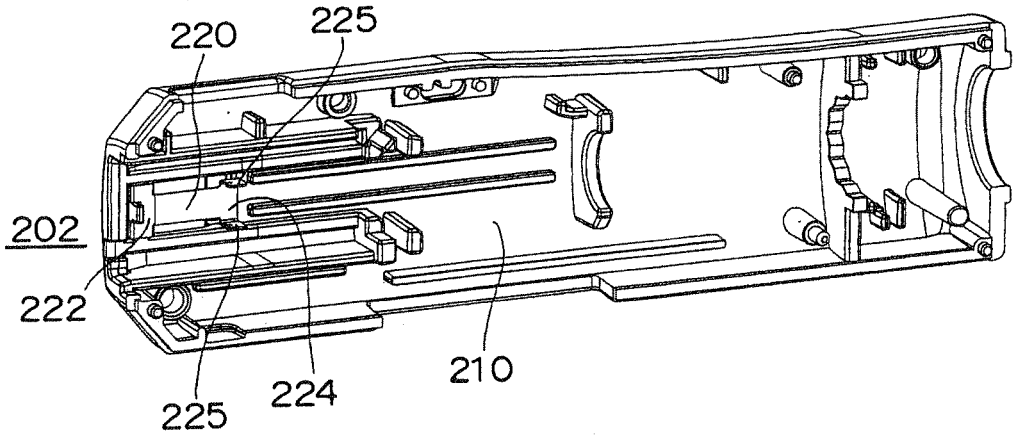


Fig. 11


220
227
225
226
222
224
220a


220
225
202
222
225
224
210

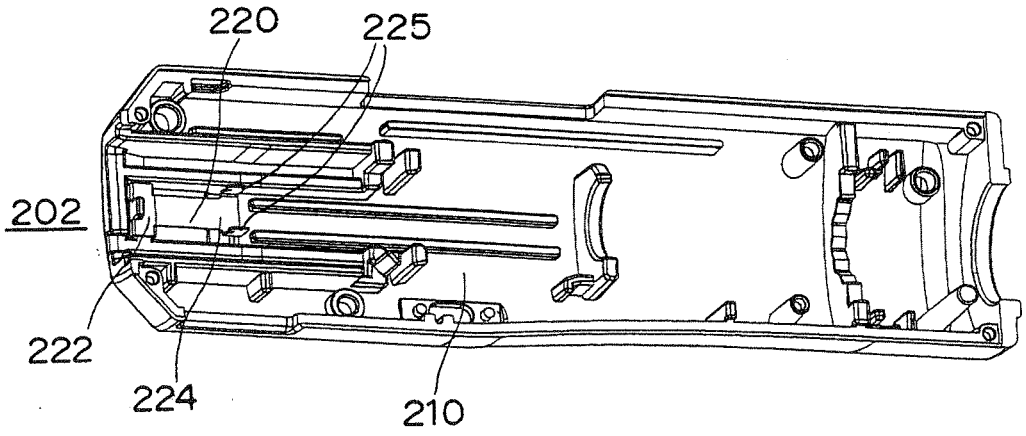

220
225
202
222
224
210

Fig. 12 (a)

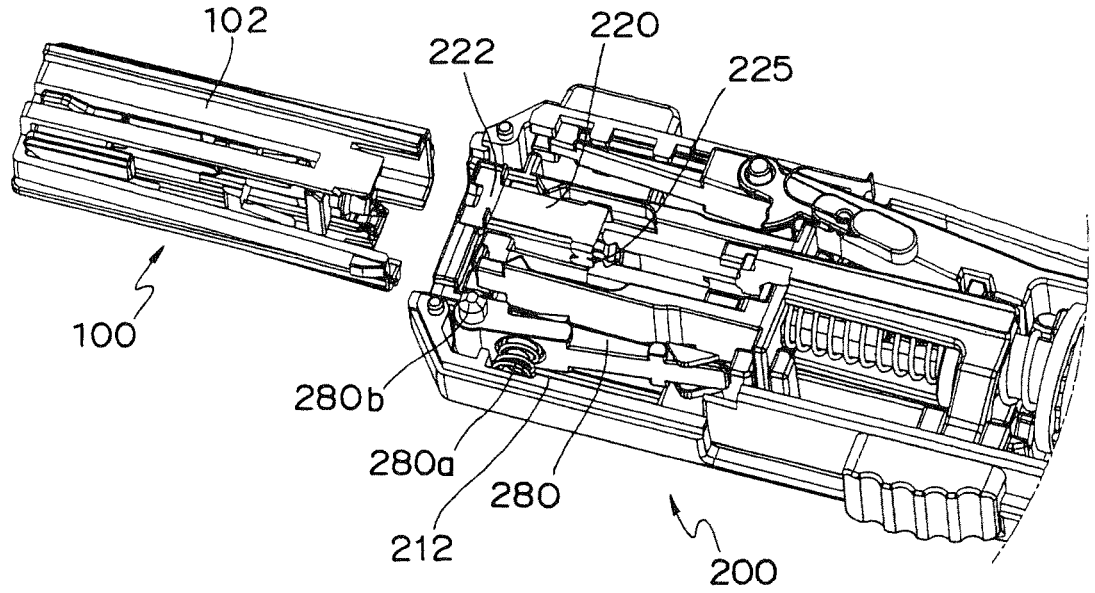


Fig. 12 (b)

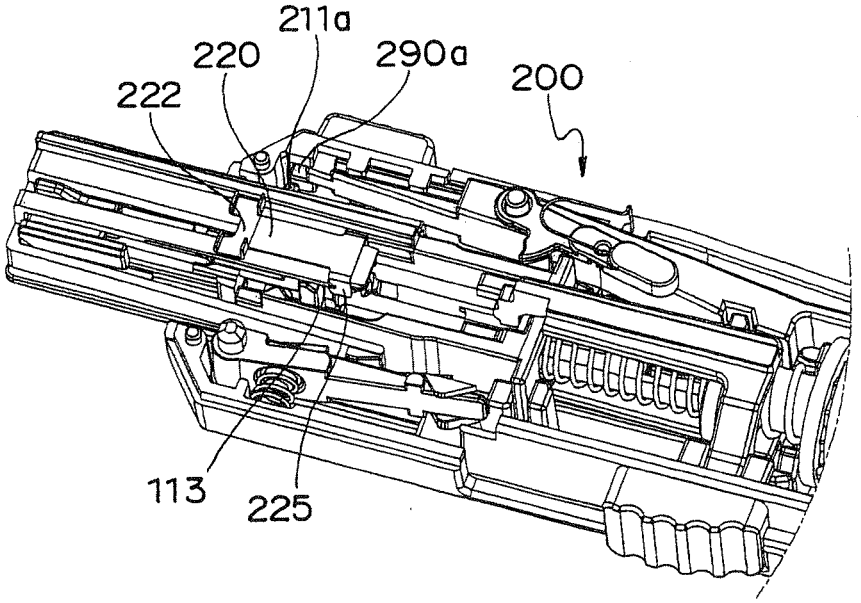


Fig. 13 (a)

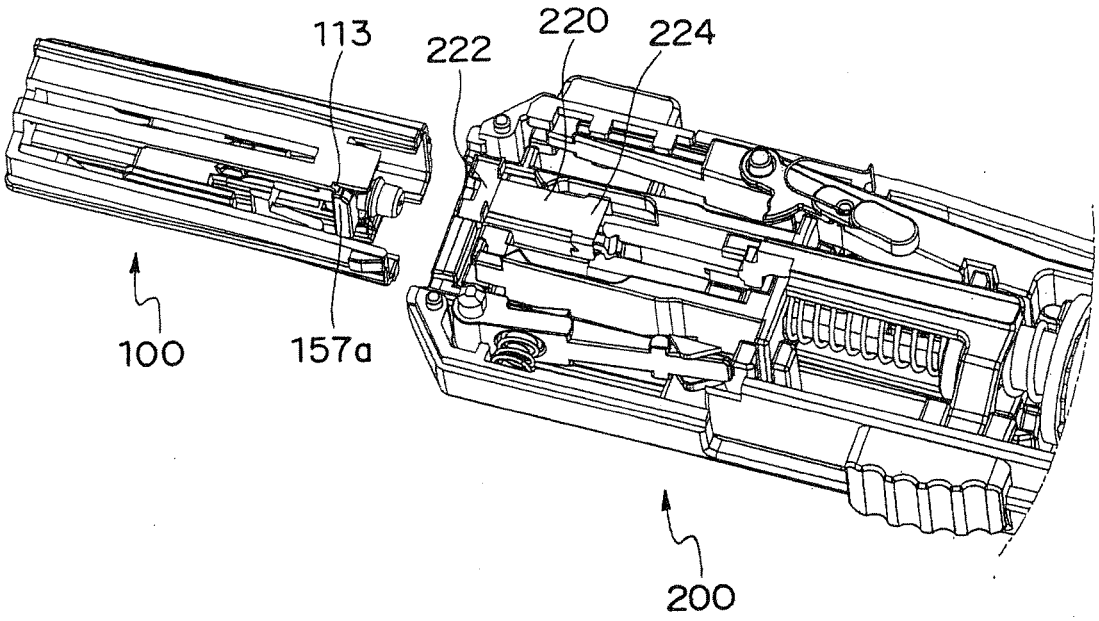


Fig. 13 (b)

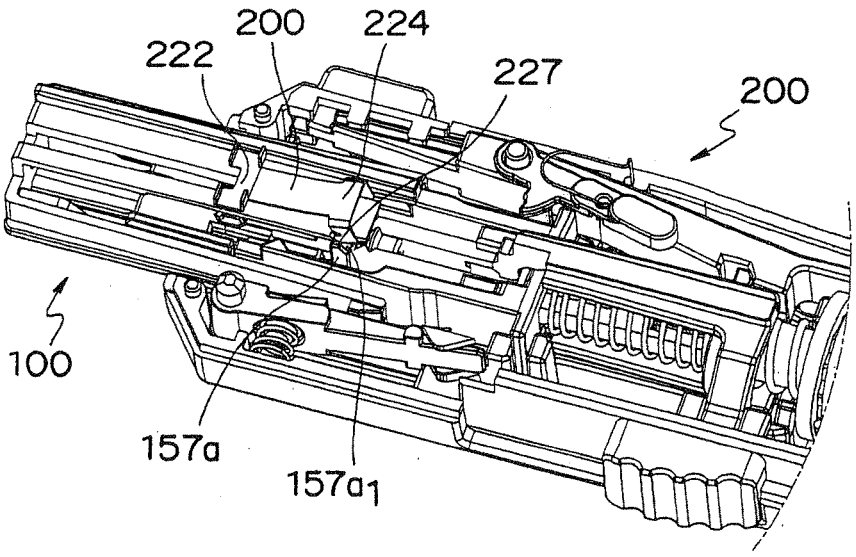


Fig. 13 (c)

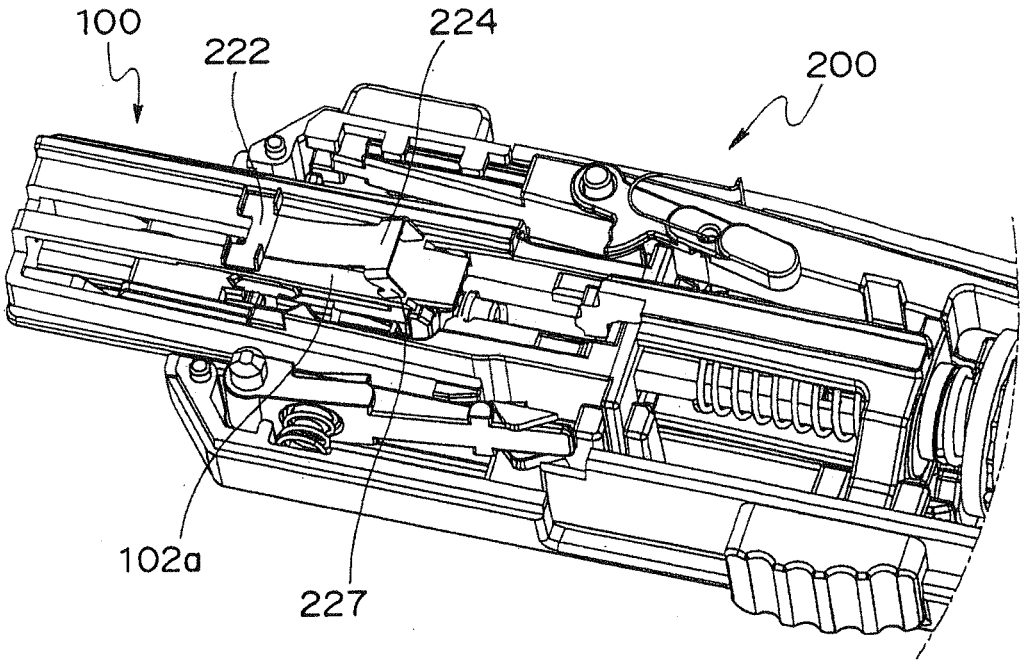


Fig. 14 (a)

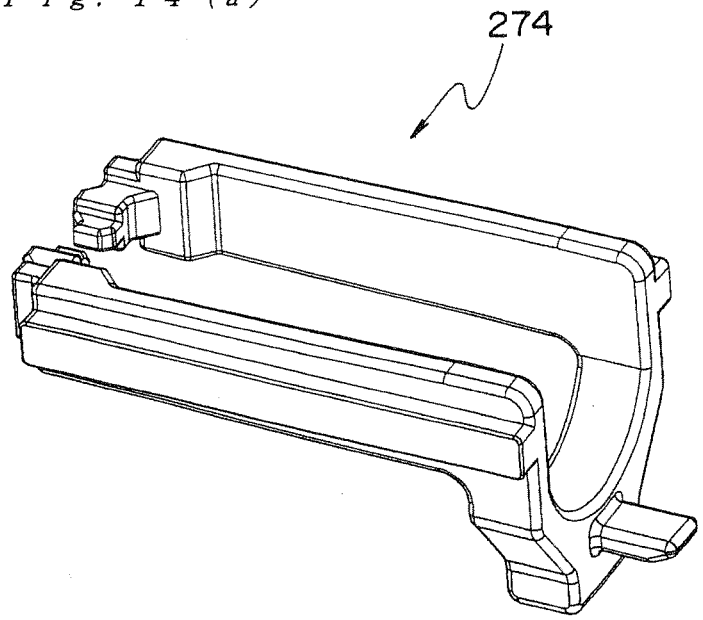


Fig. 14 (b)

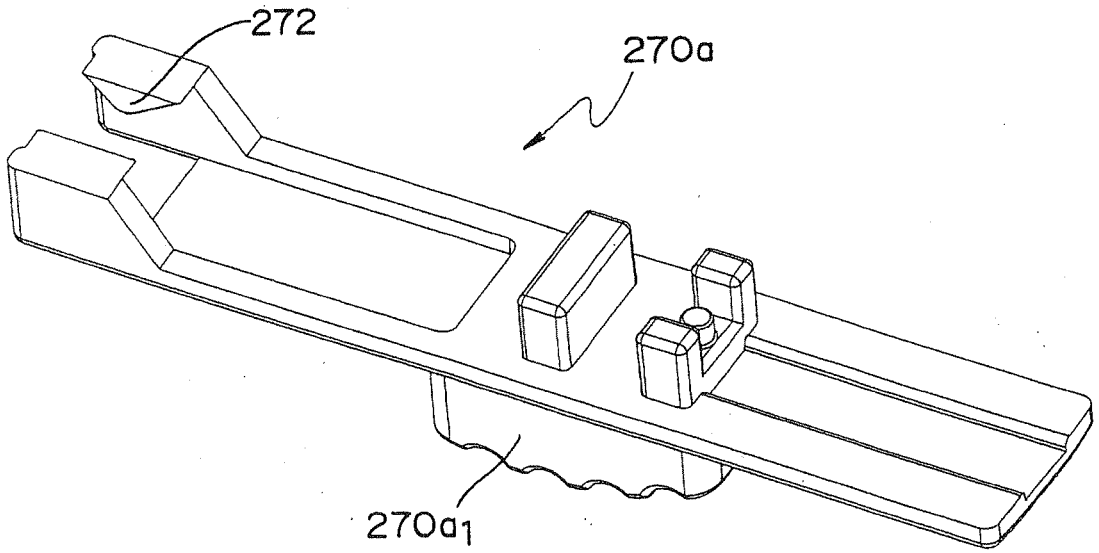


Fig. 15A

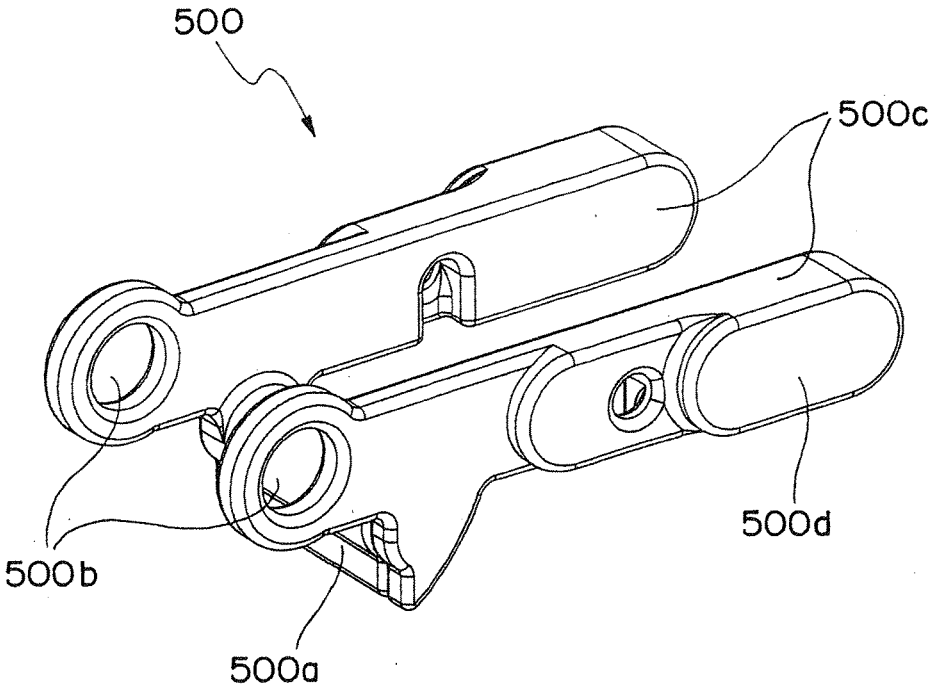


Fig. 15B

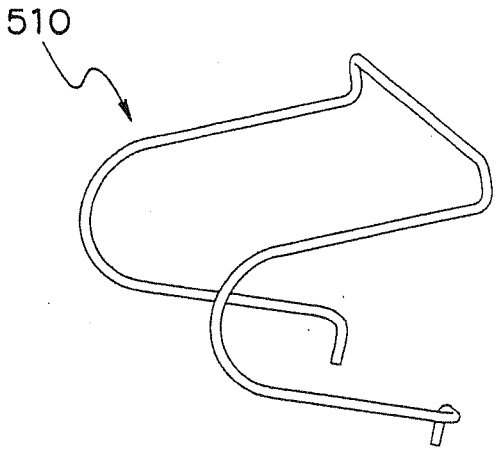
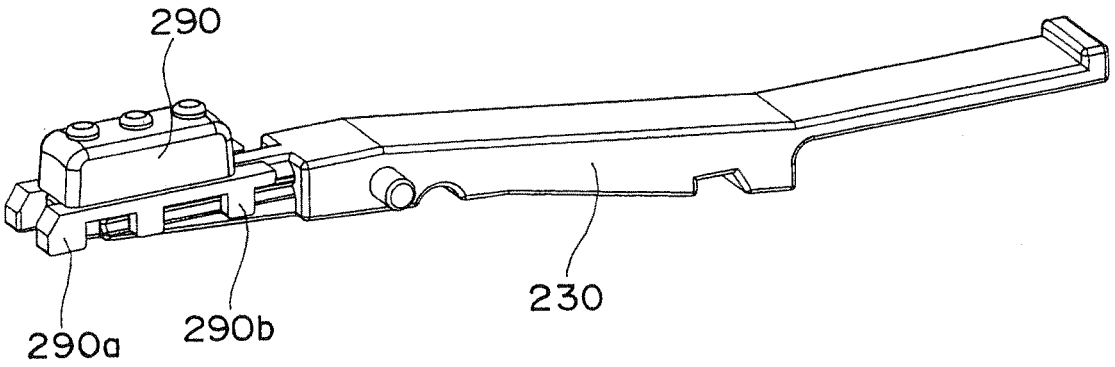


Fig. 16

(a)



(b)

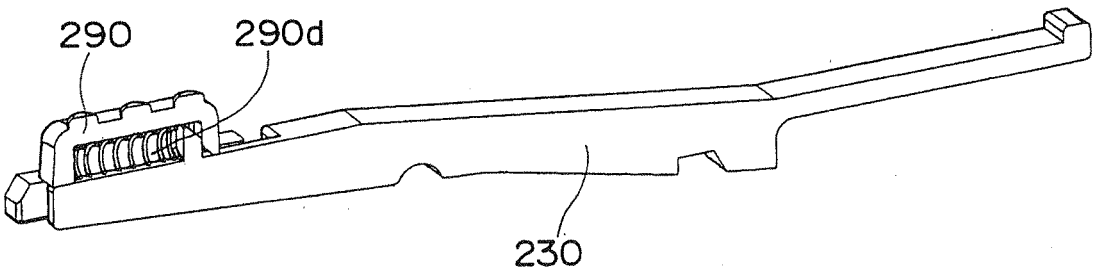


Fig. 17A

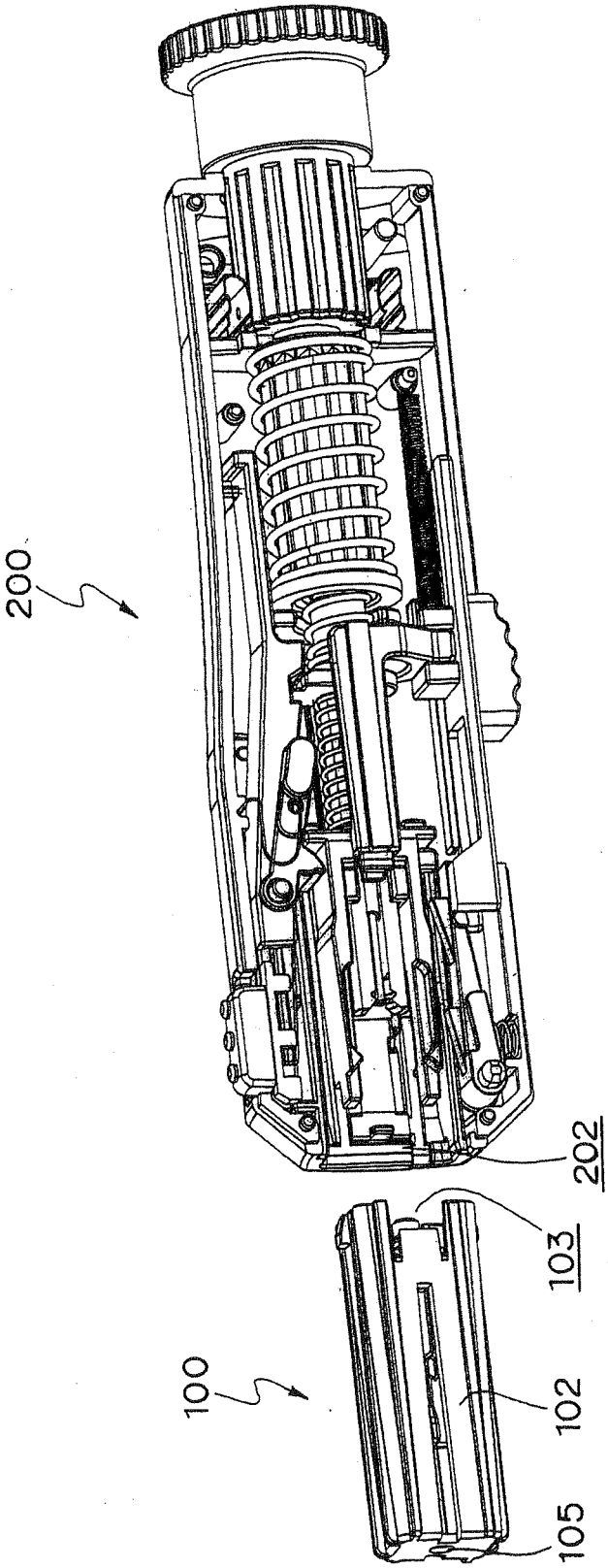


Fig. 17B

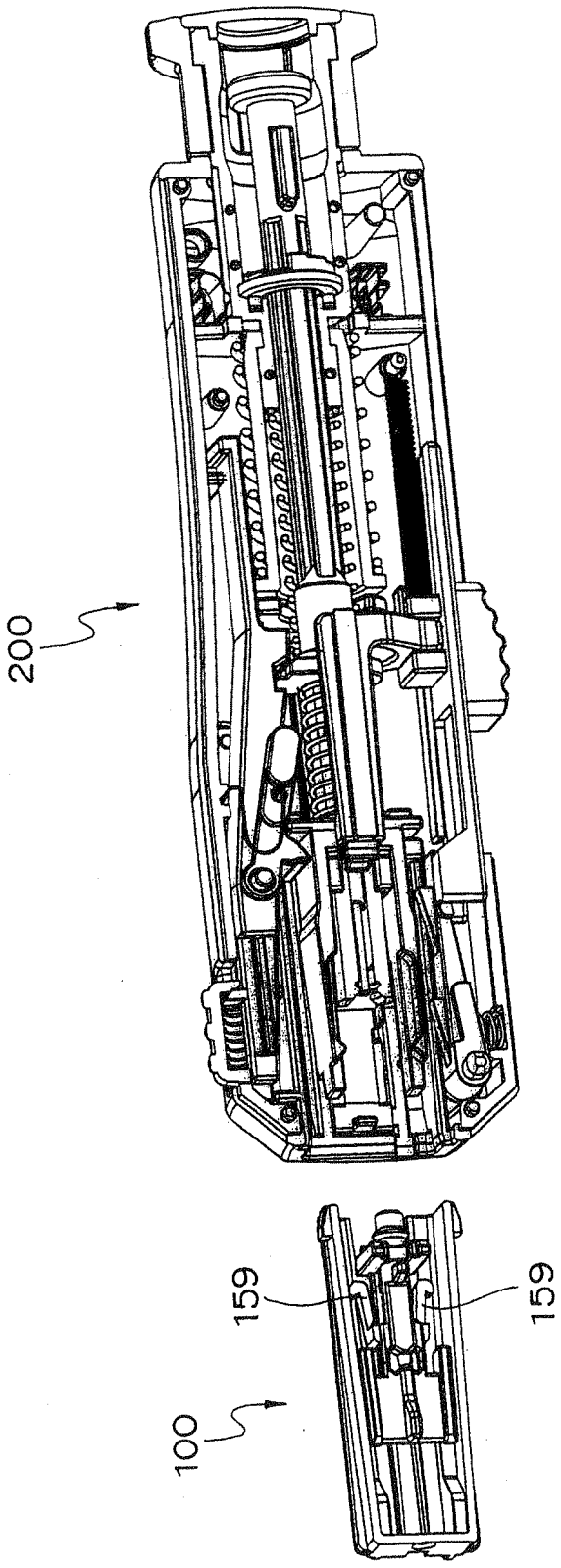


Fig. 18A

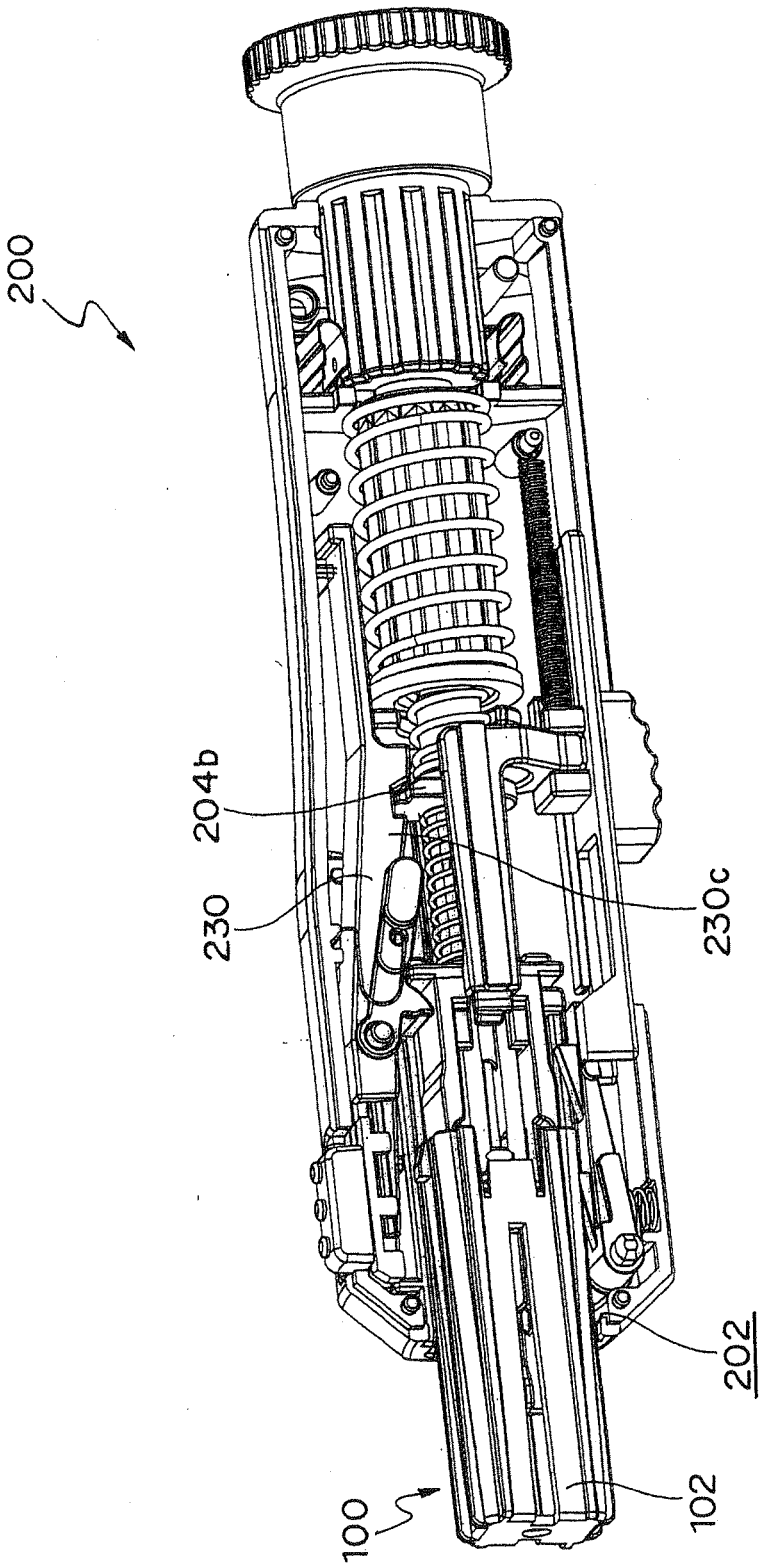


Fig. 18B

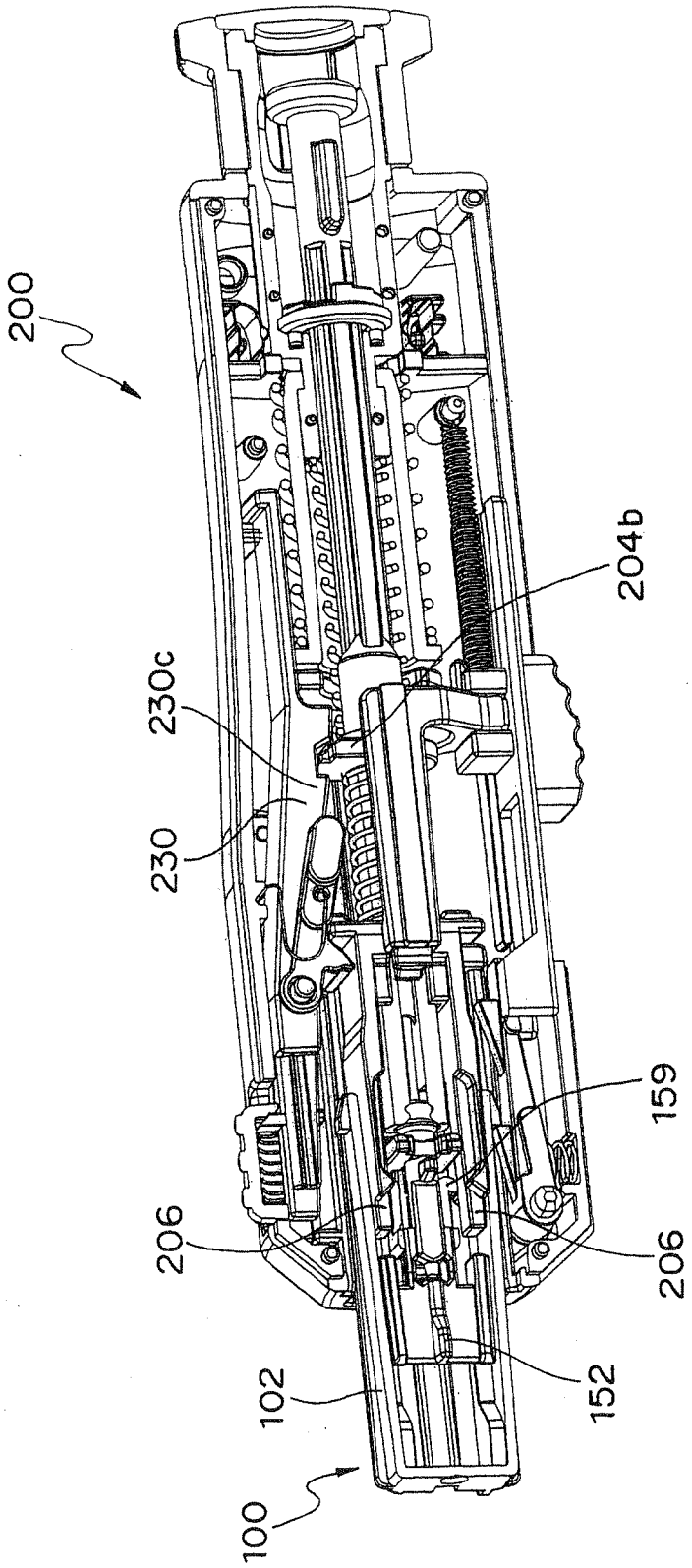


Fig. 19A

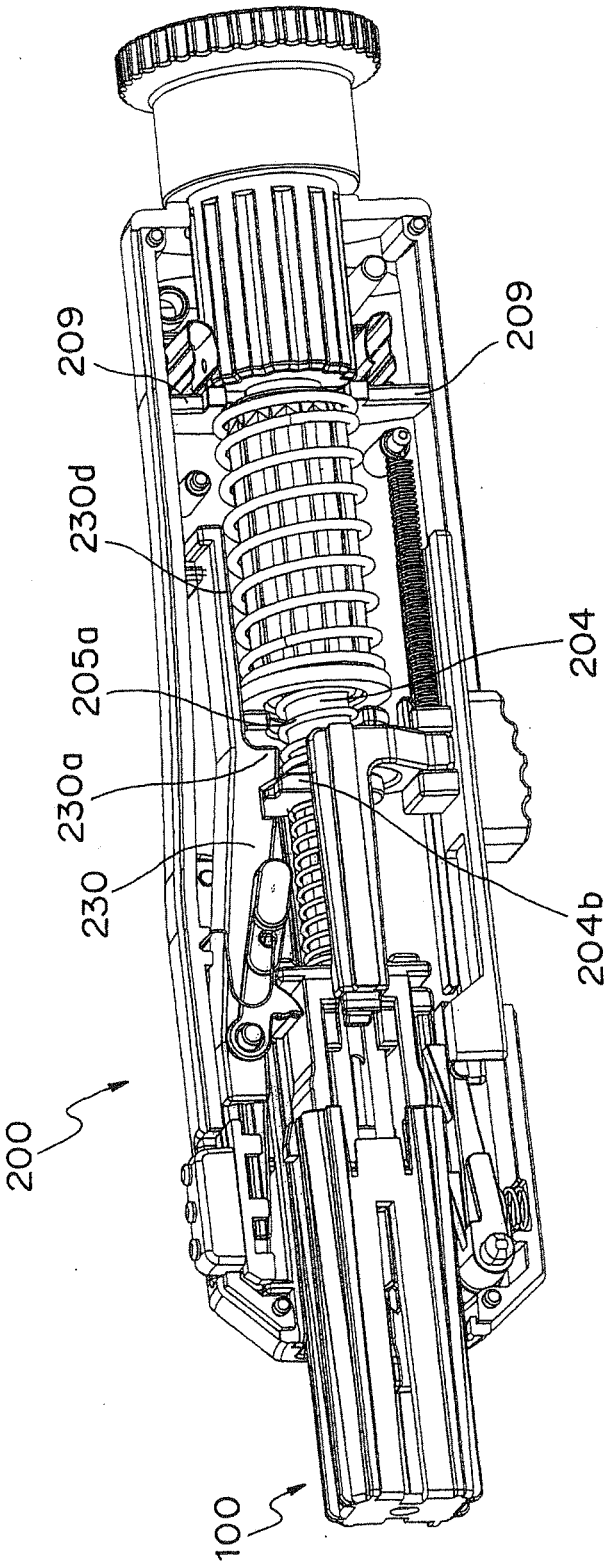


Fig. 19B

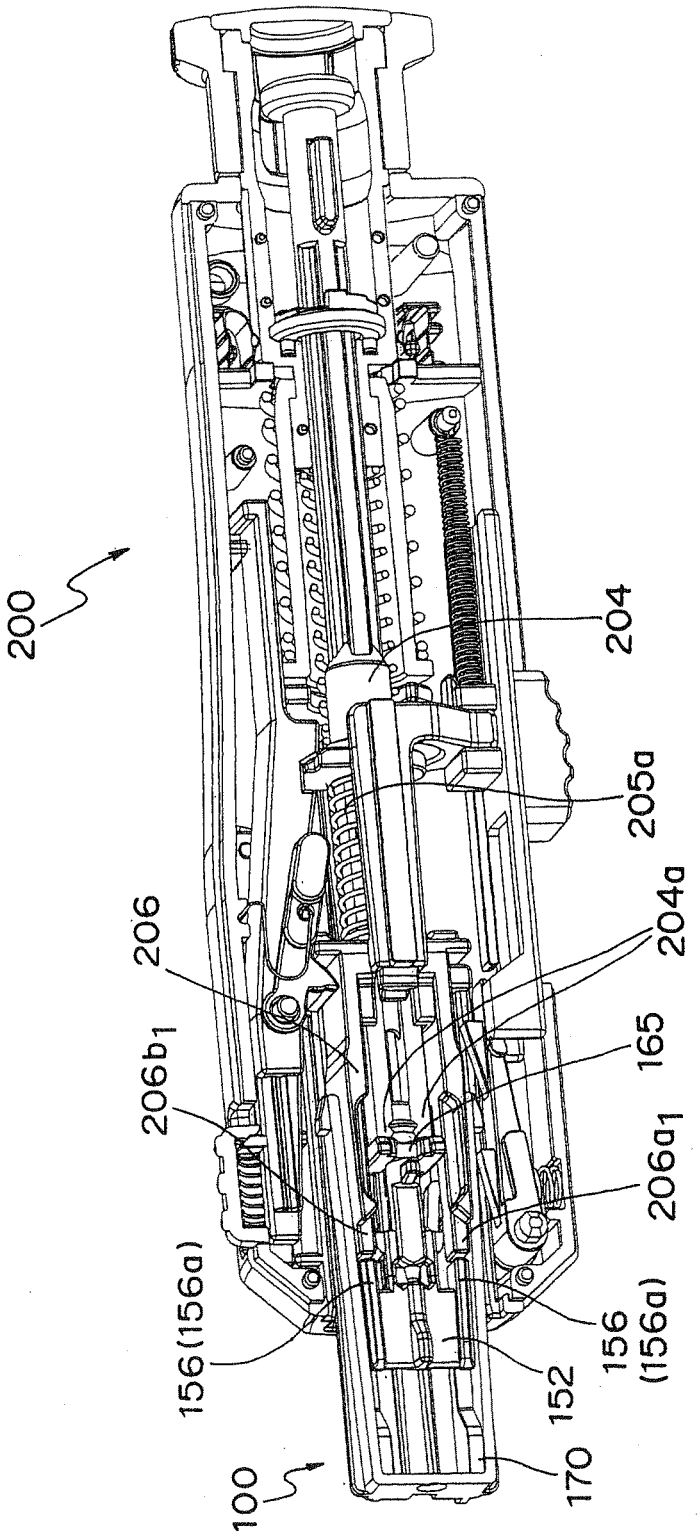

200
204
205a
206
204a
206b1
165
206a1
156(156a)
156
(156a)
152
170
100

Fig. 20A

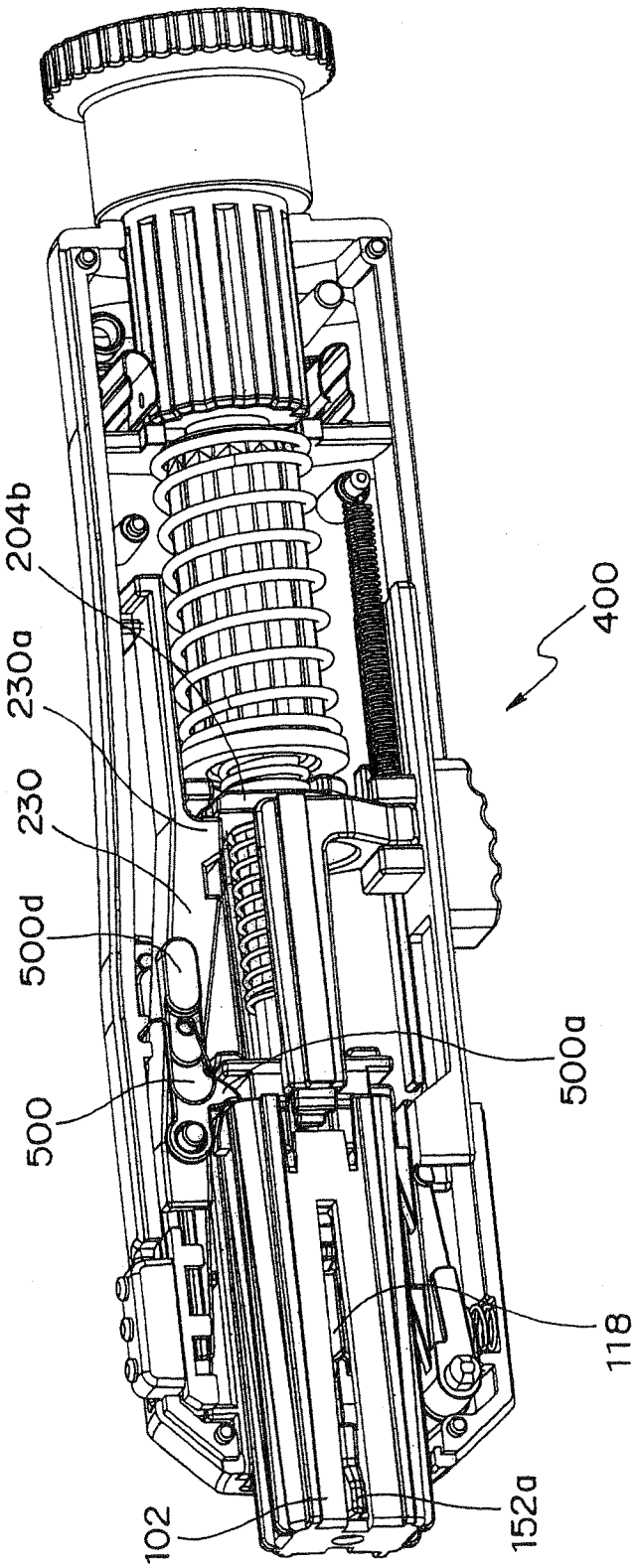


Fig. 20B

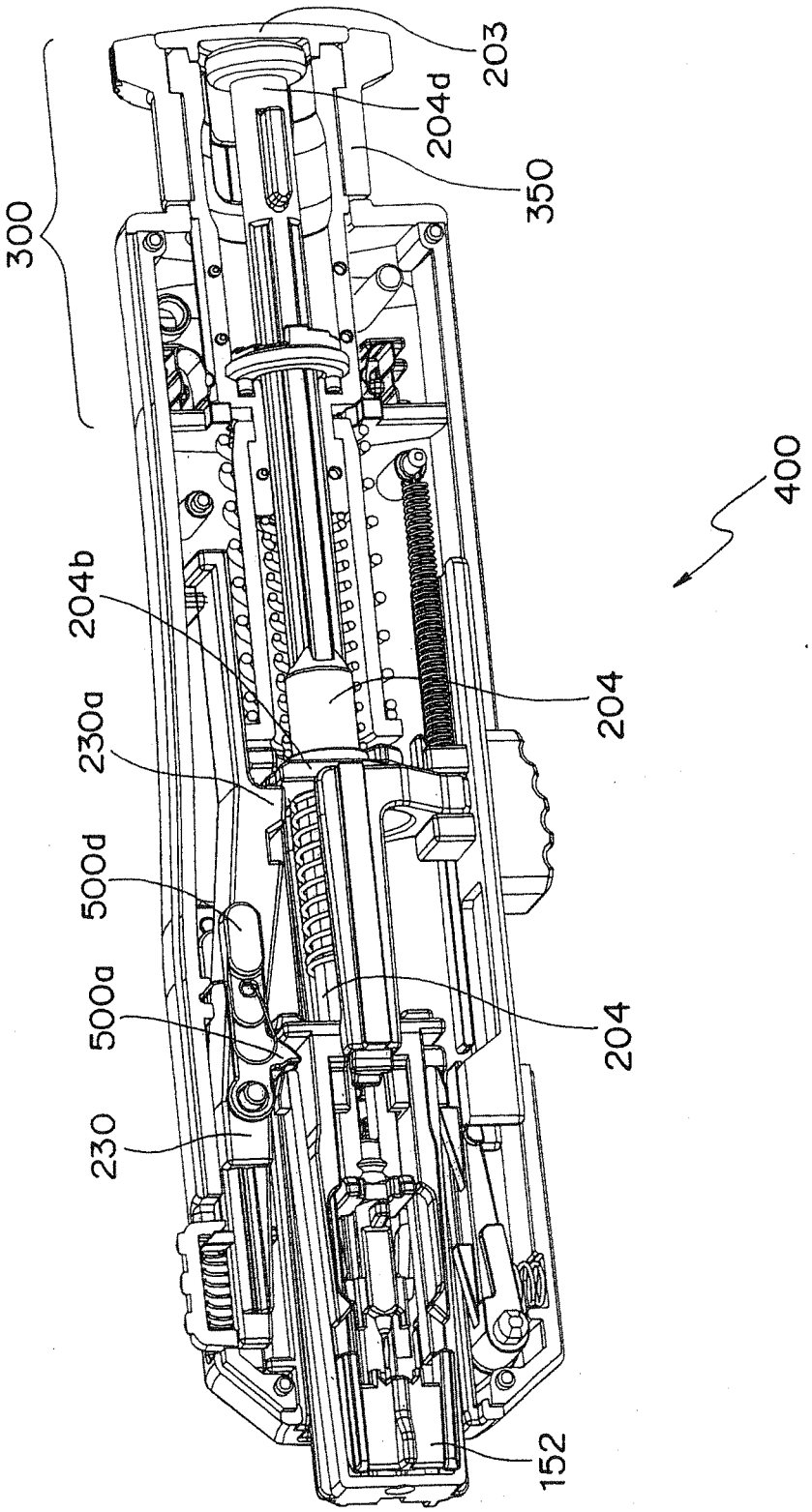


Fig. 21A

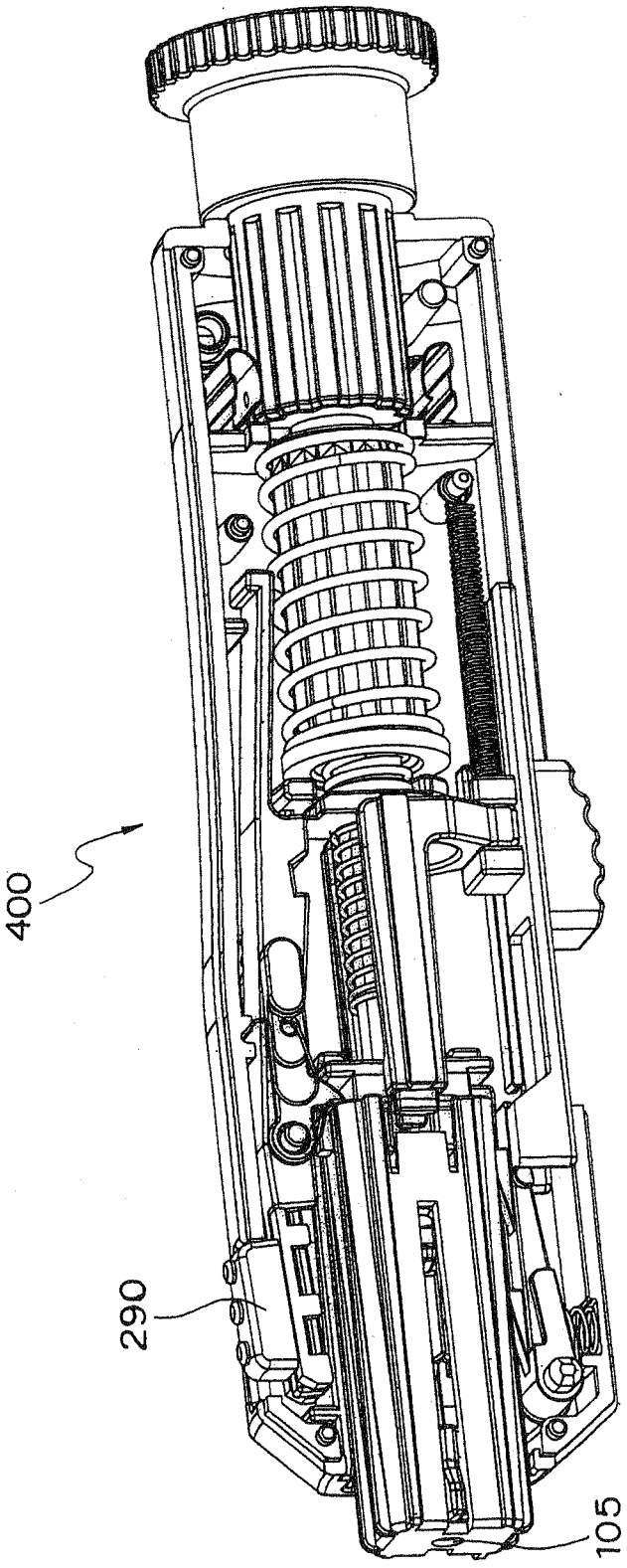


Fig. 21B

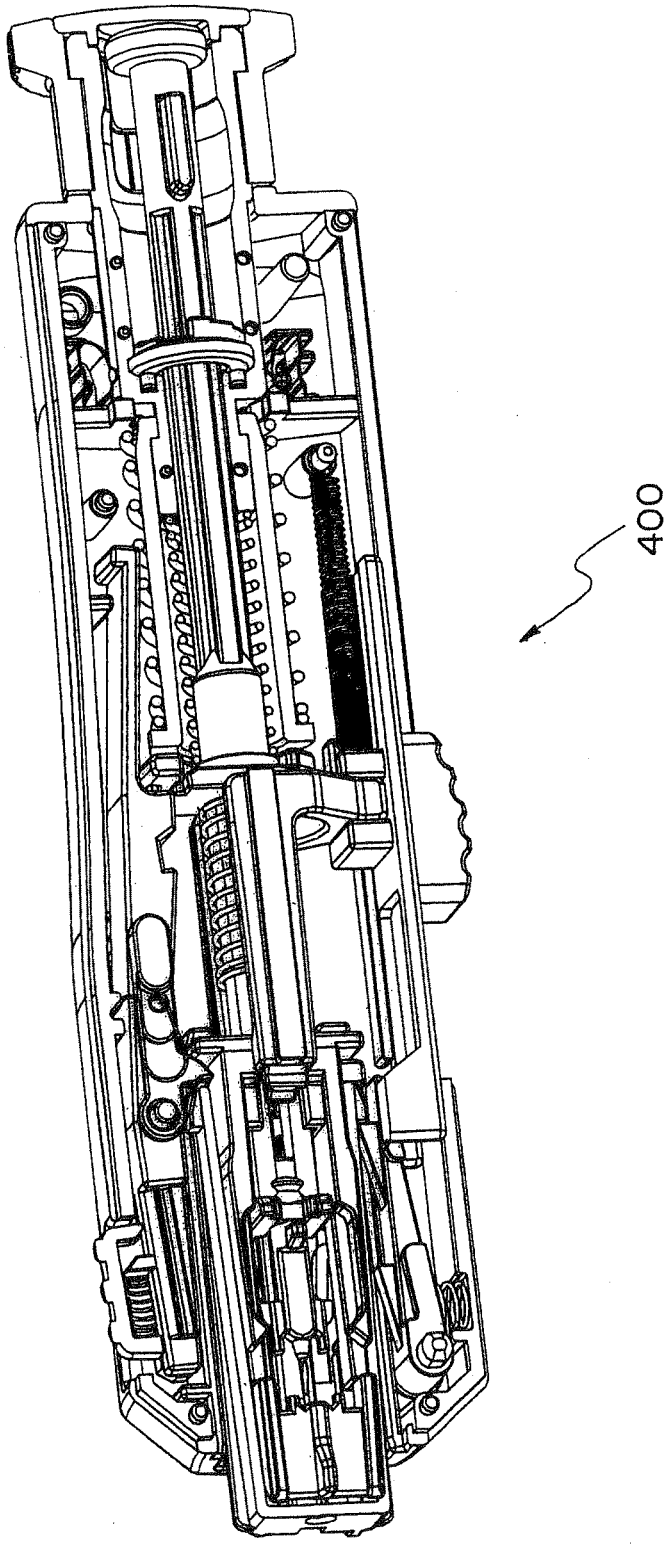


Fig. 22A

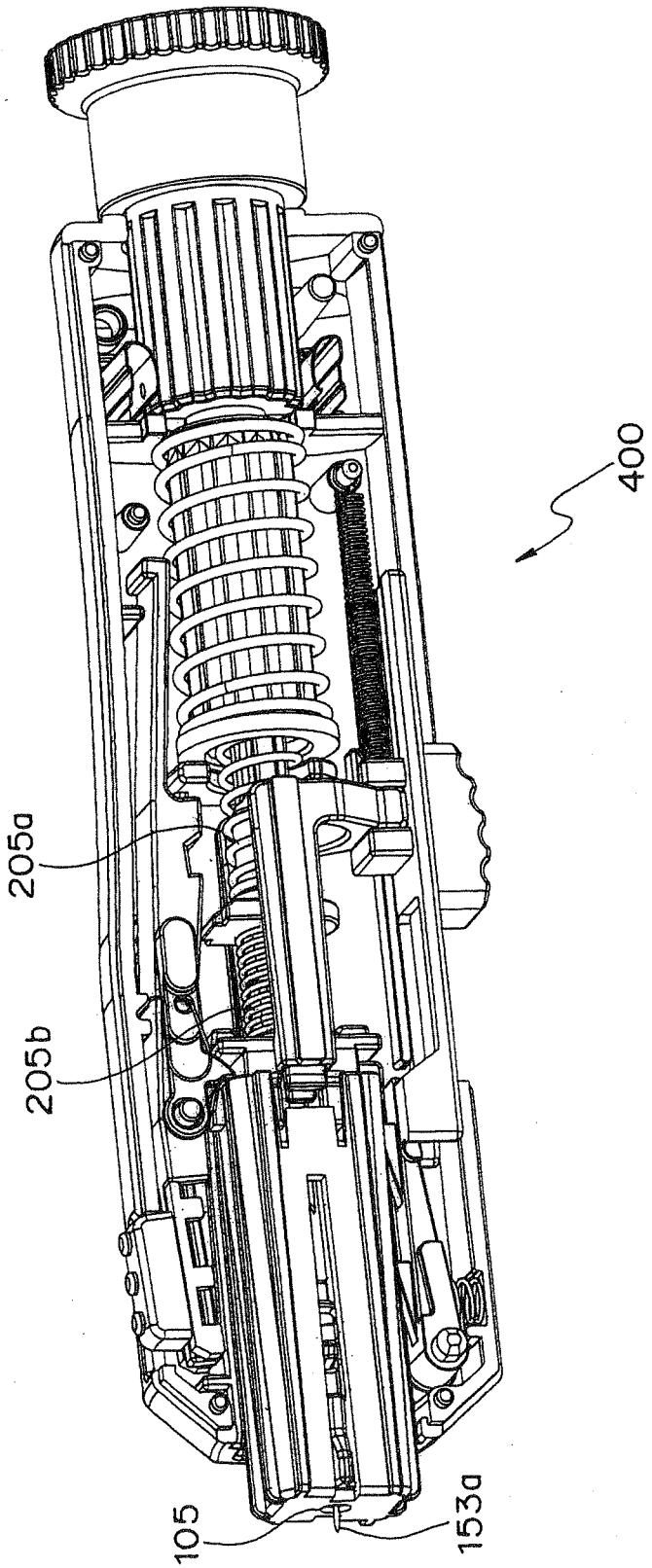


Fig. 22B

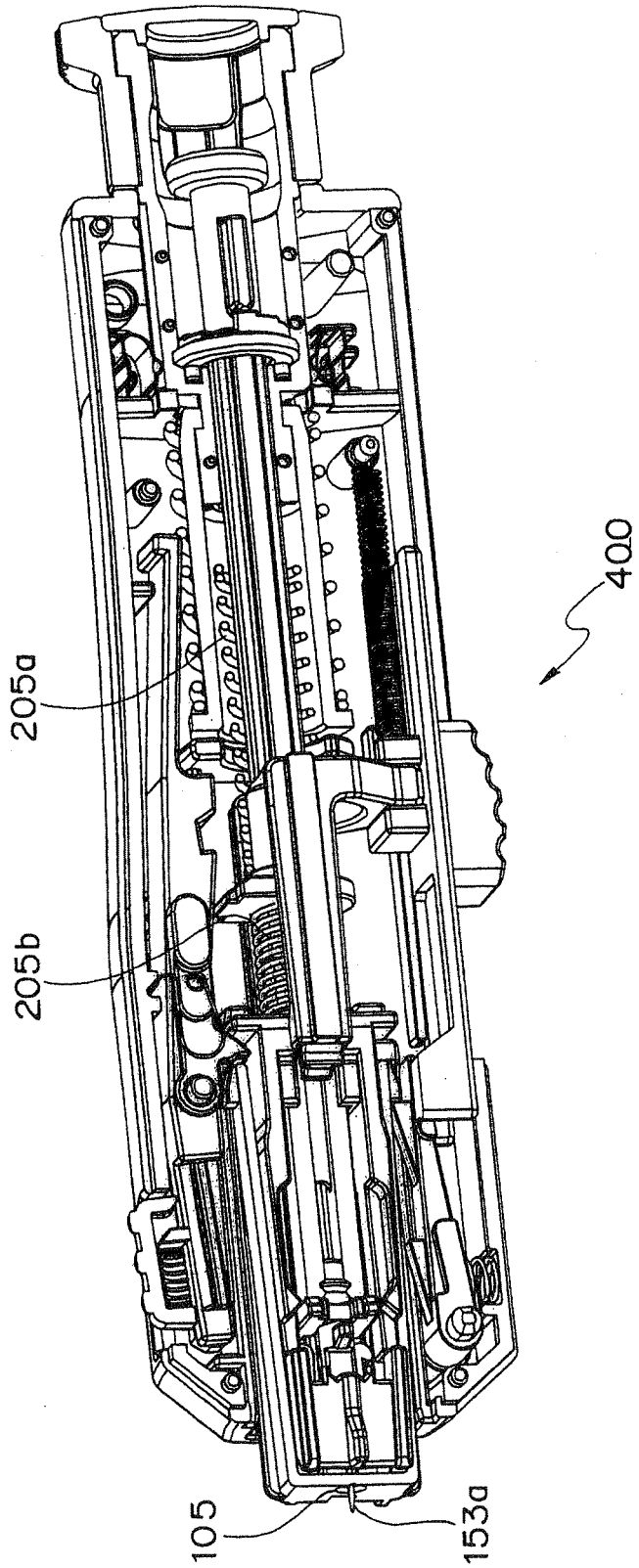


Fig. 23A

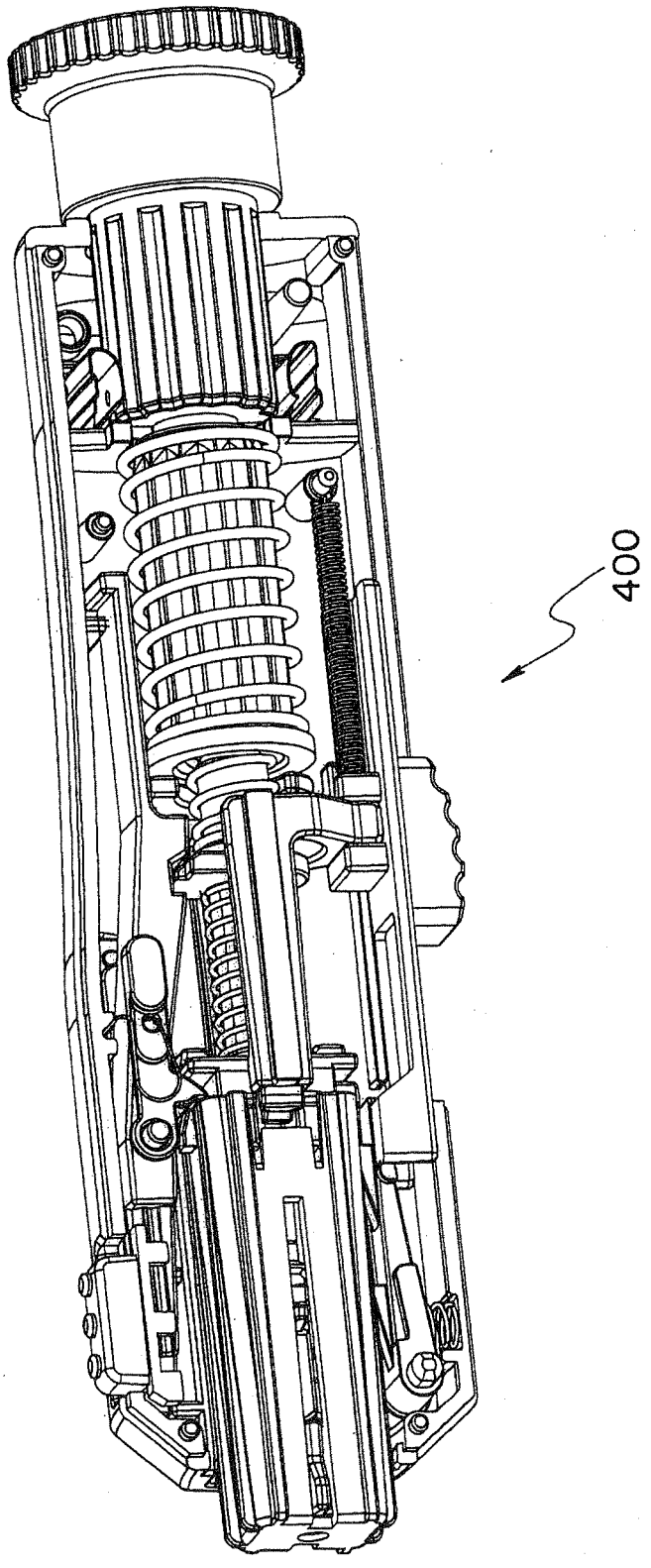


Fig. 23B

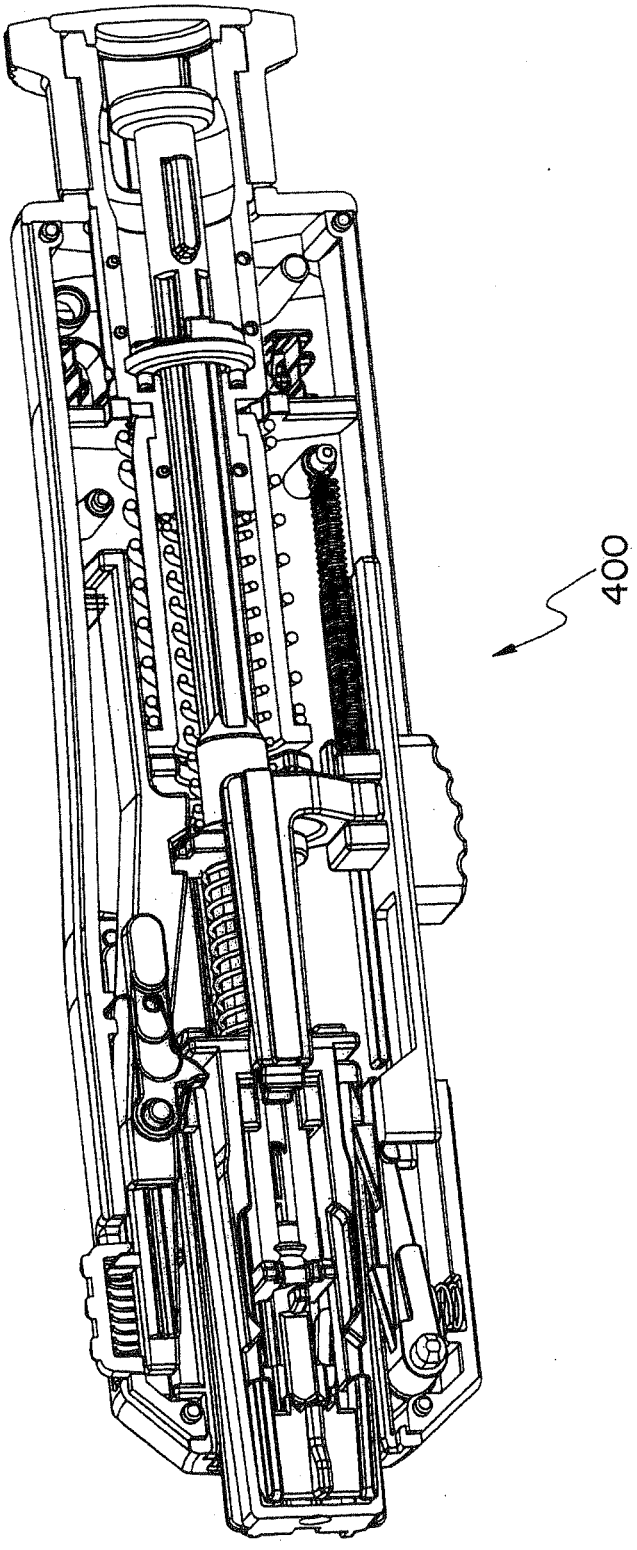


Fig. 24A

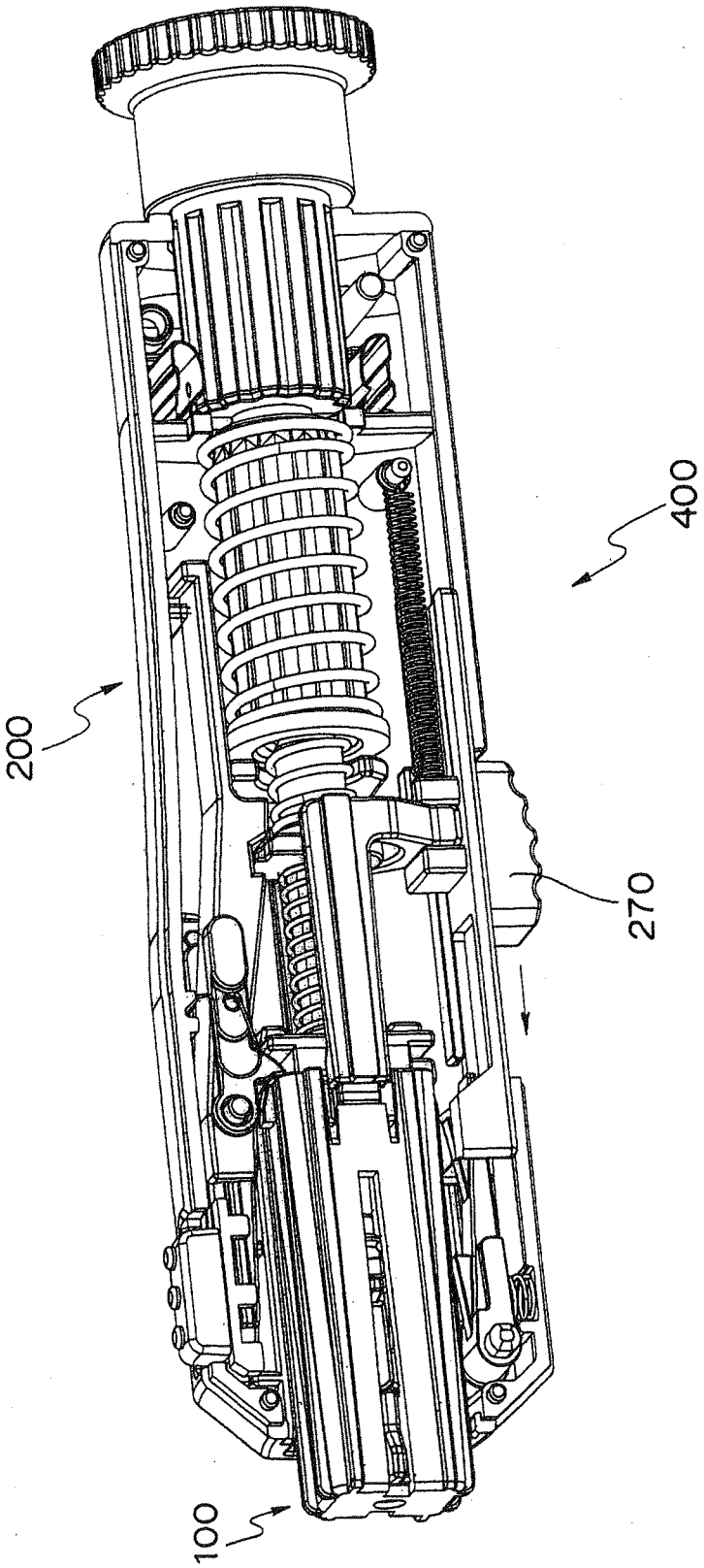


Fig. 24B

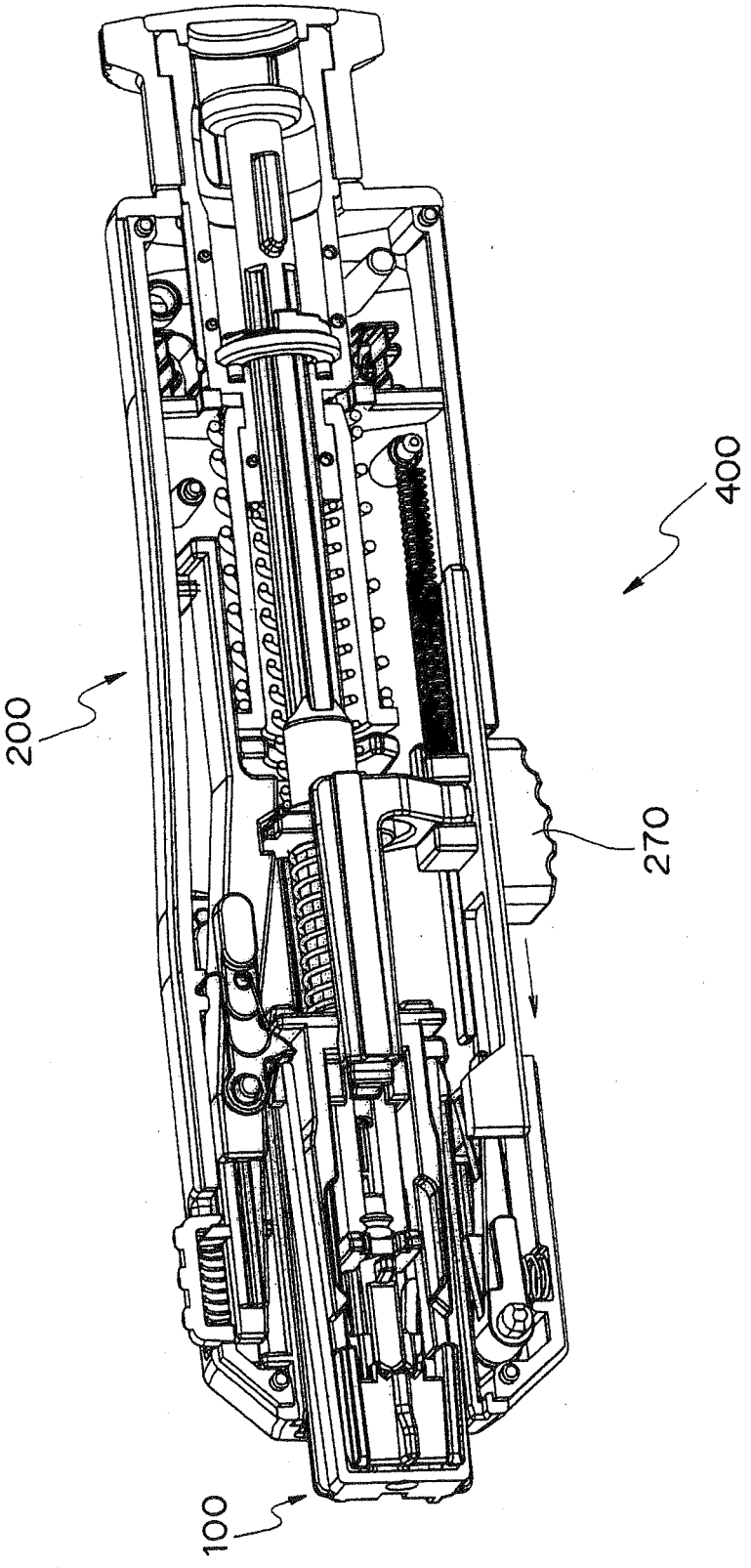


Fig. 25A

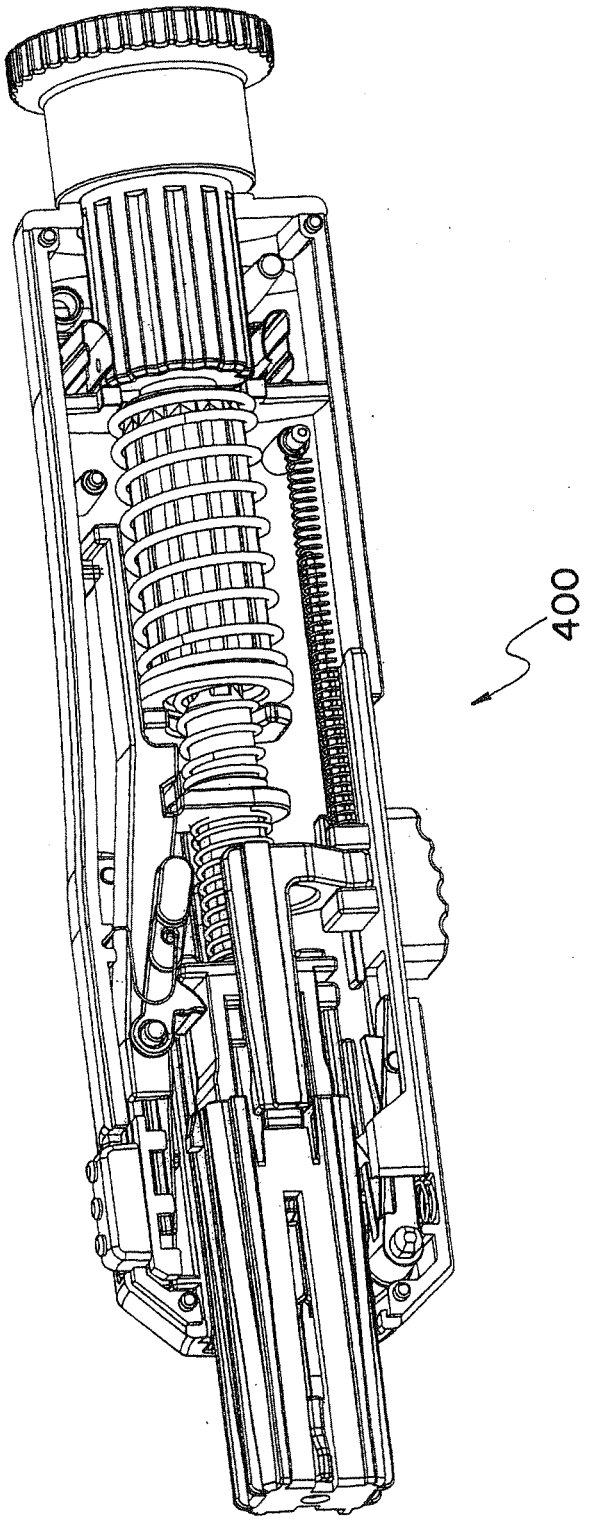


Fig. 25B

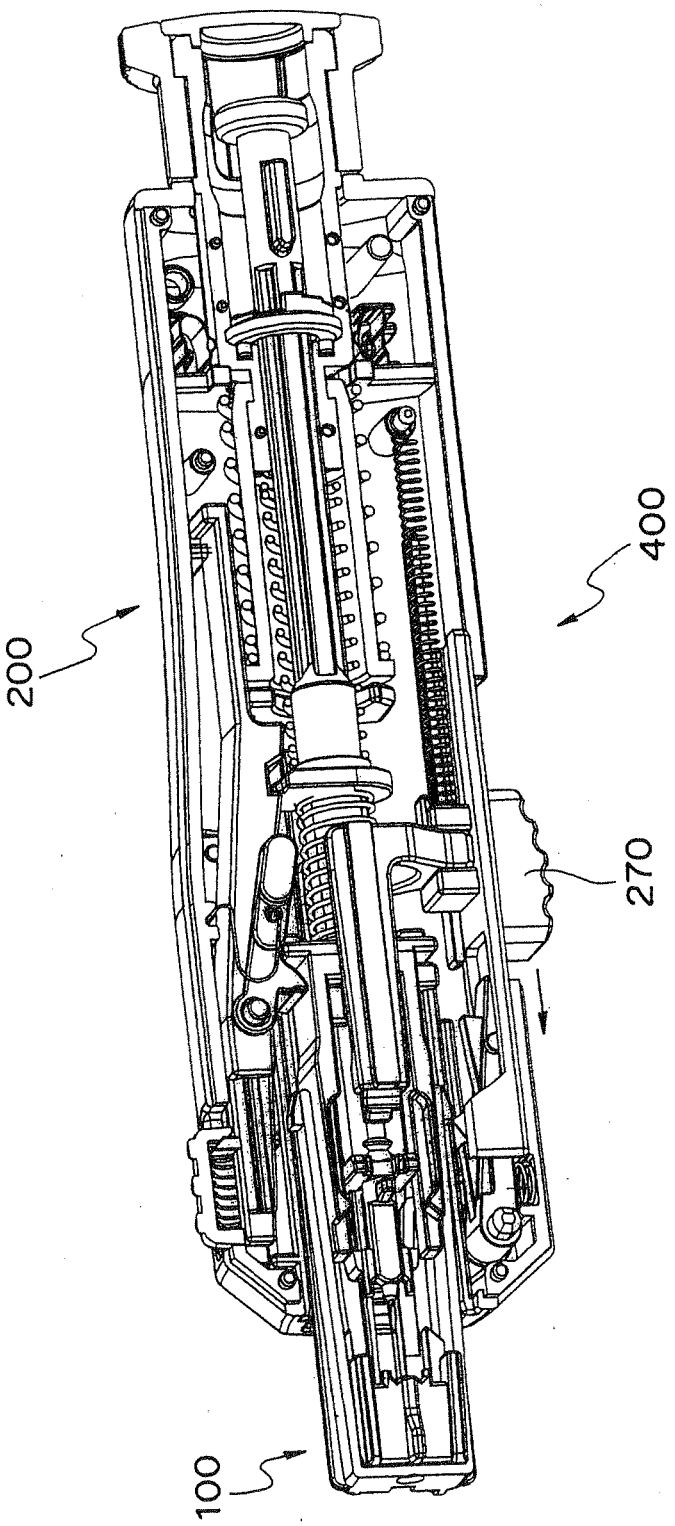


Fig. 26A

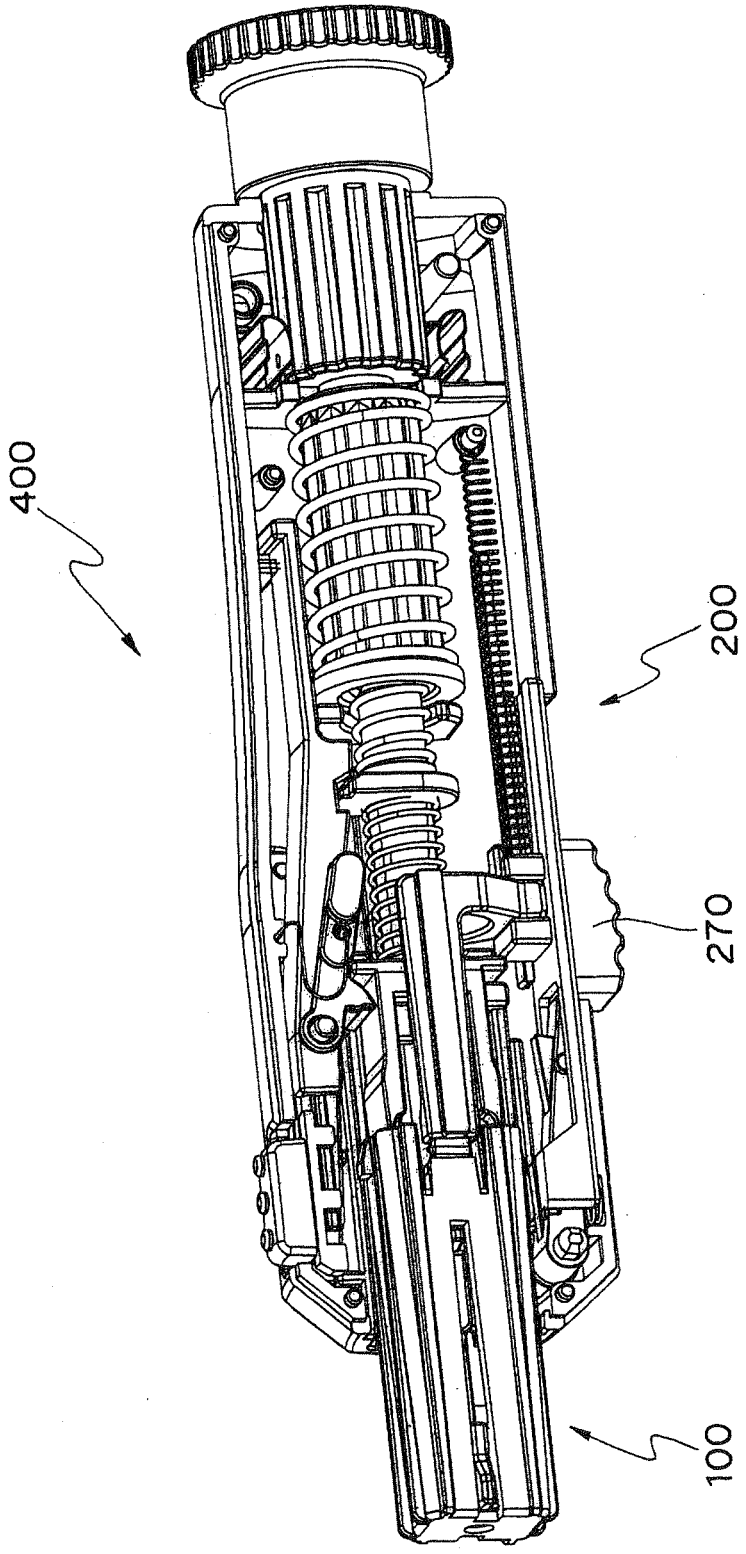


Fig. 26B

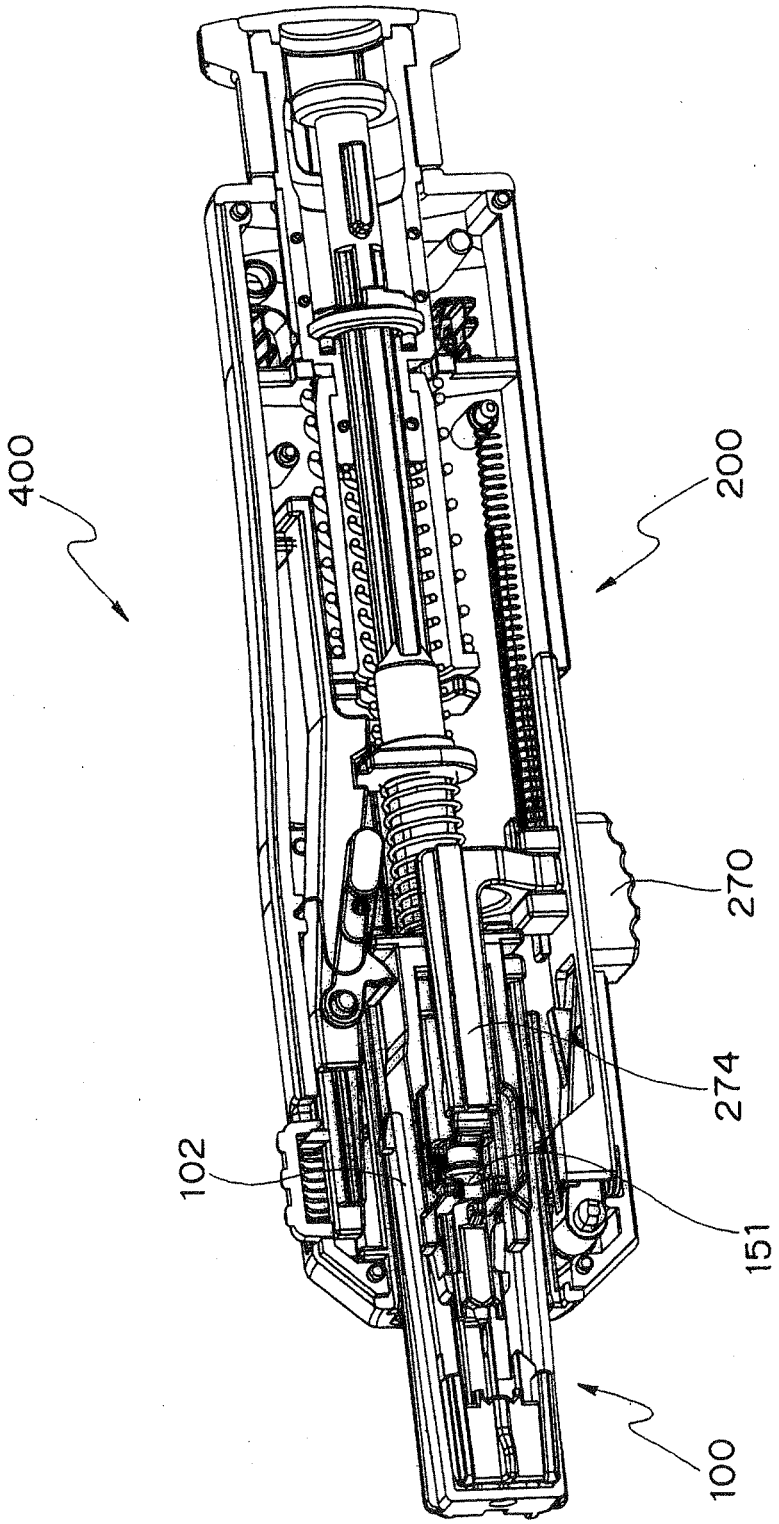


Fig. 27A

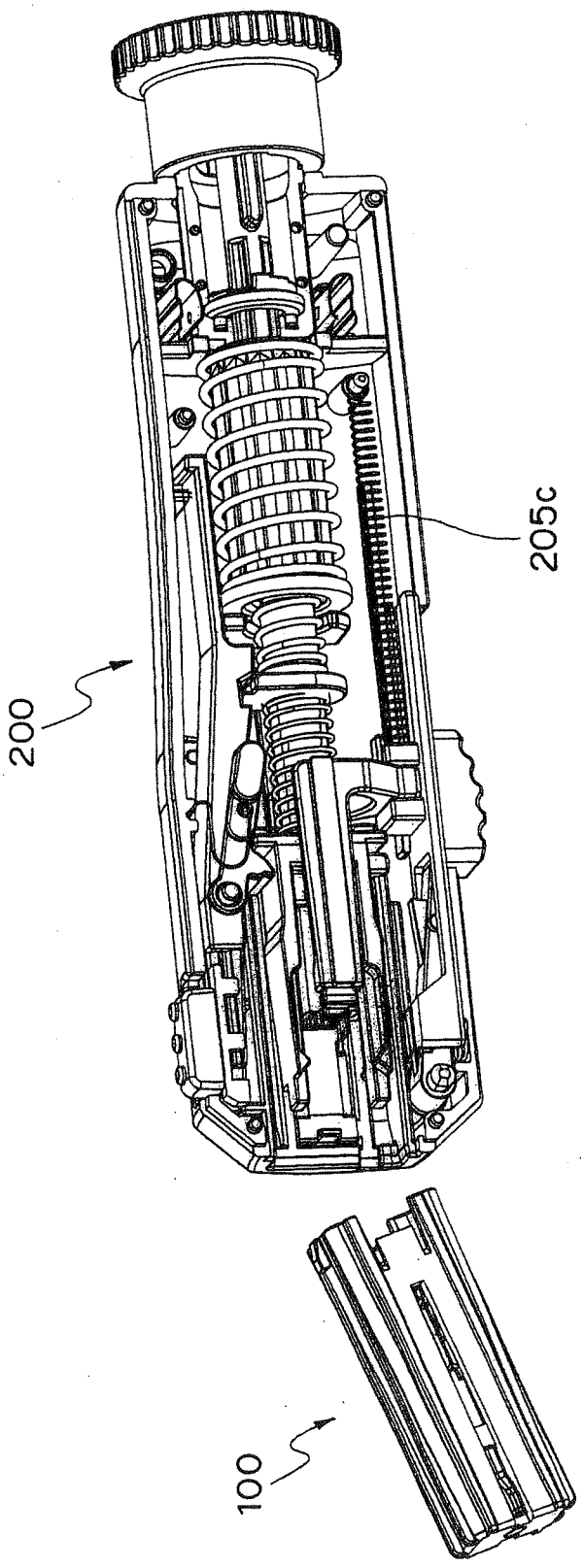


Fig. 27B

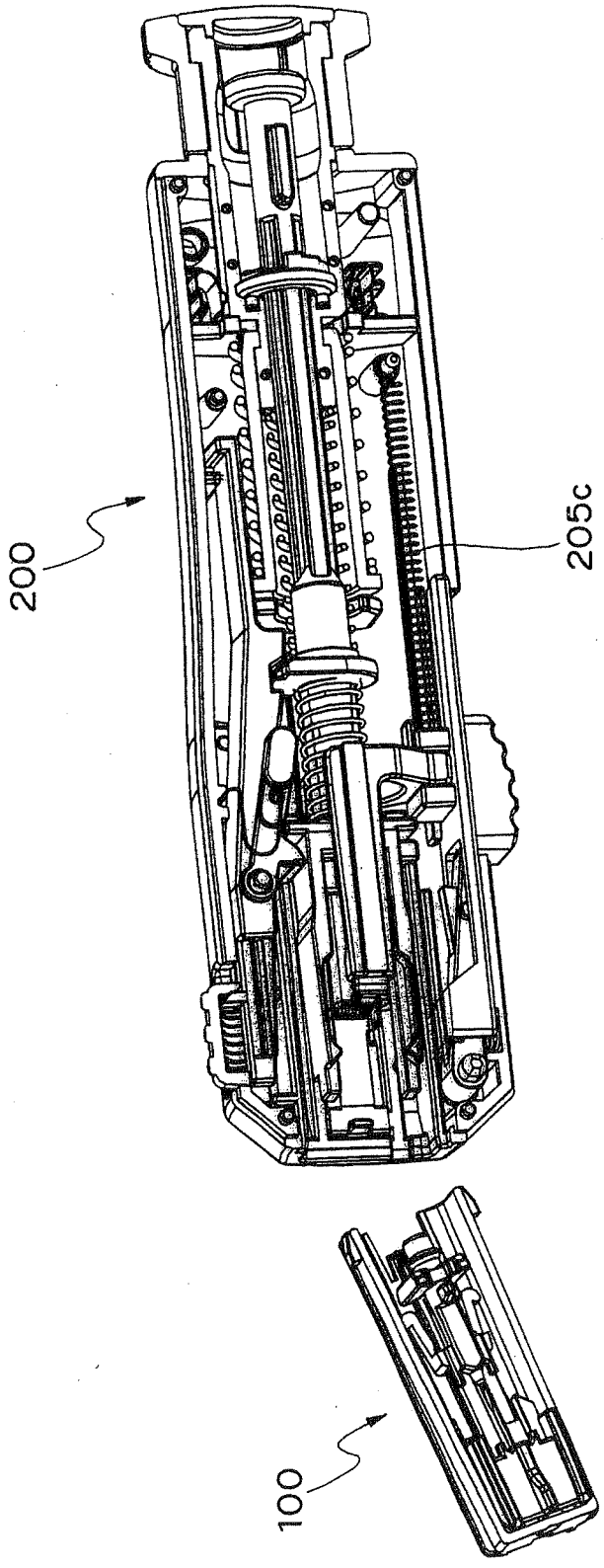


Fig. 28

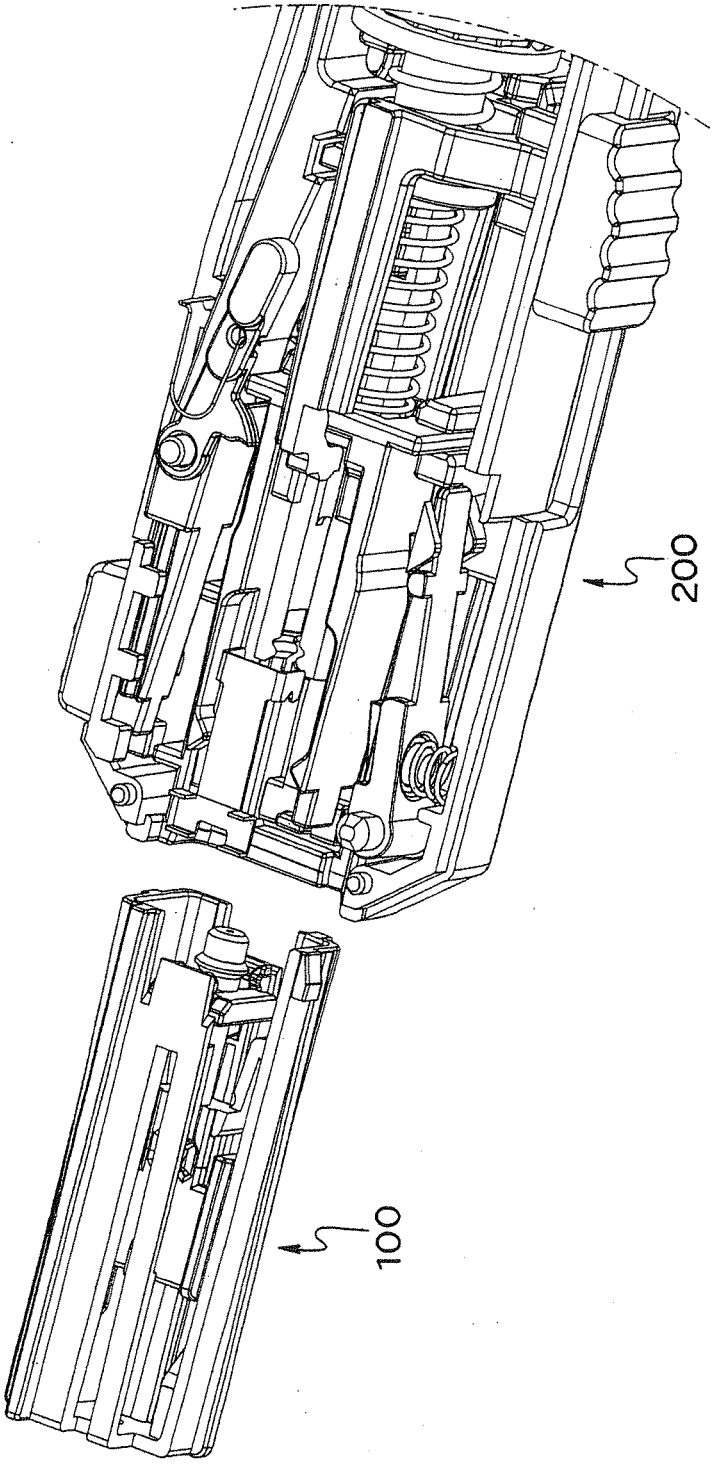


Fig. 29

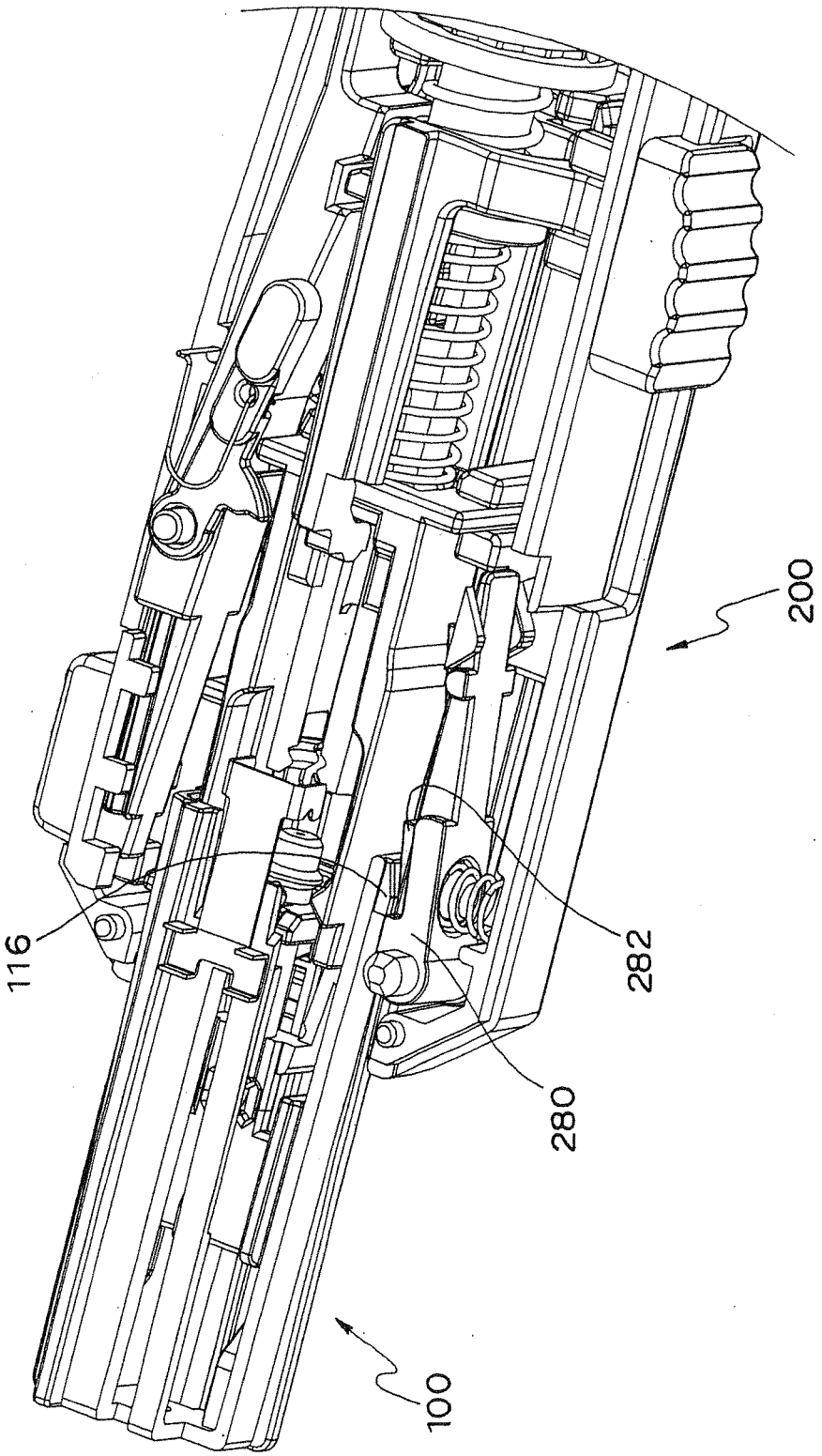


Fig. 30

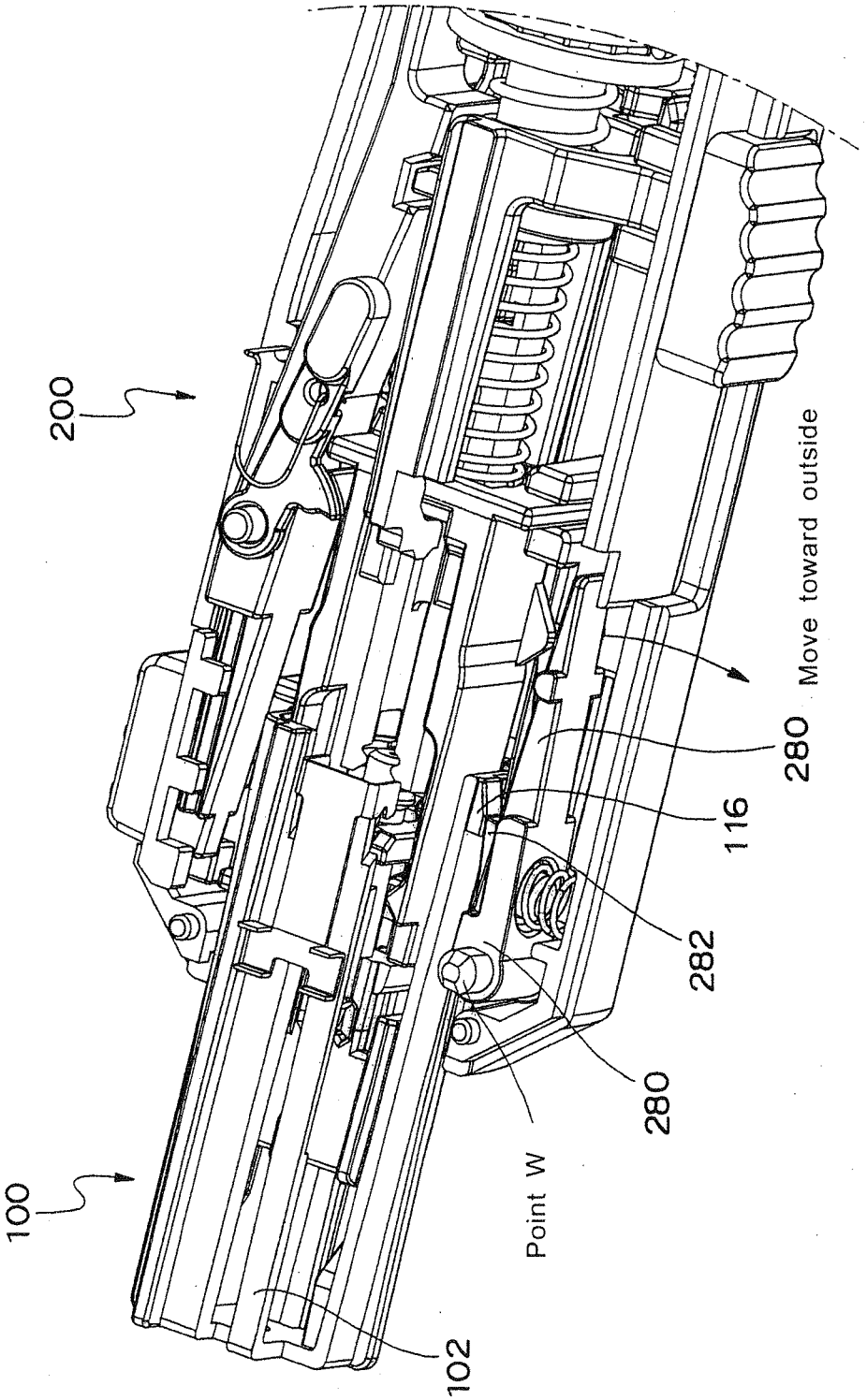


Fig. 31

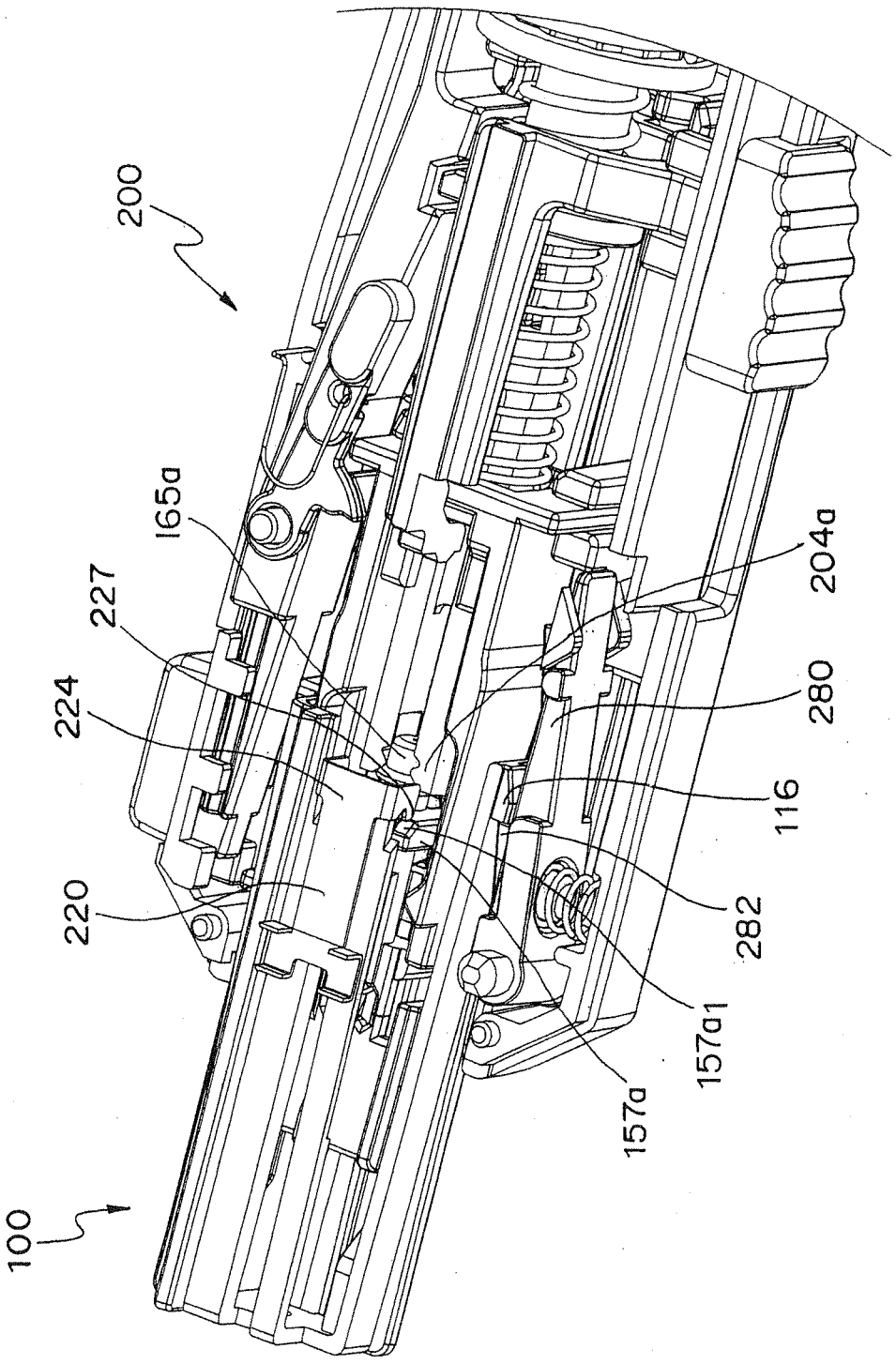


Fig. 32

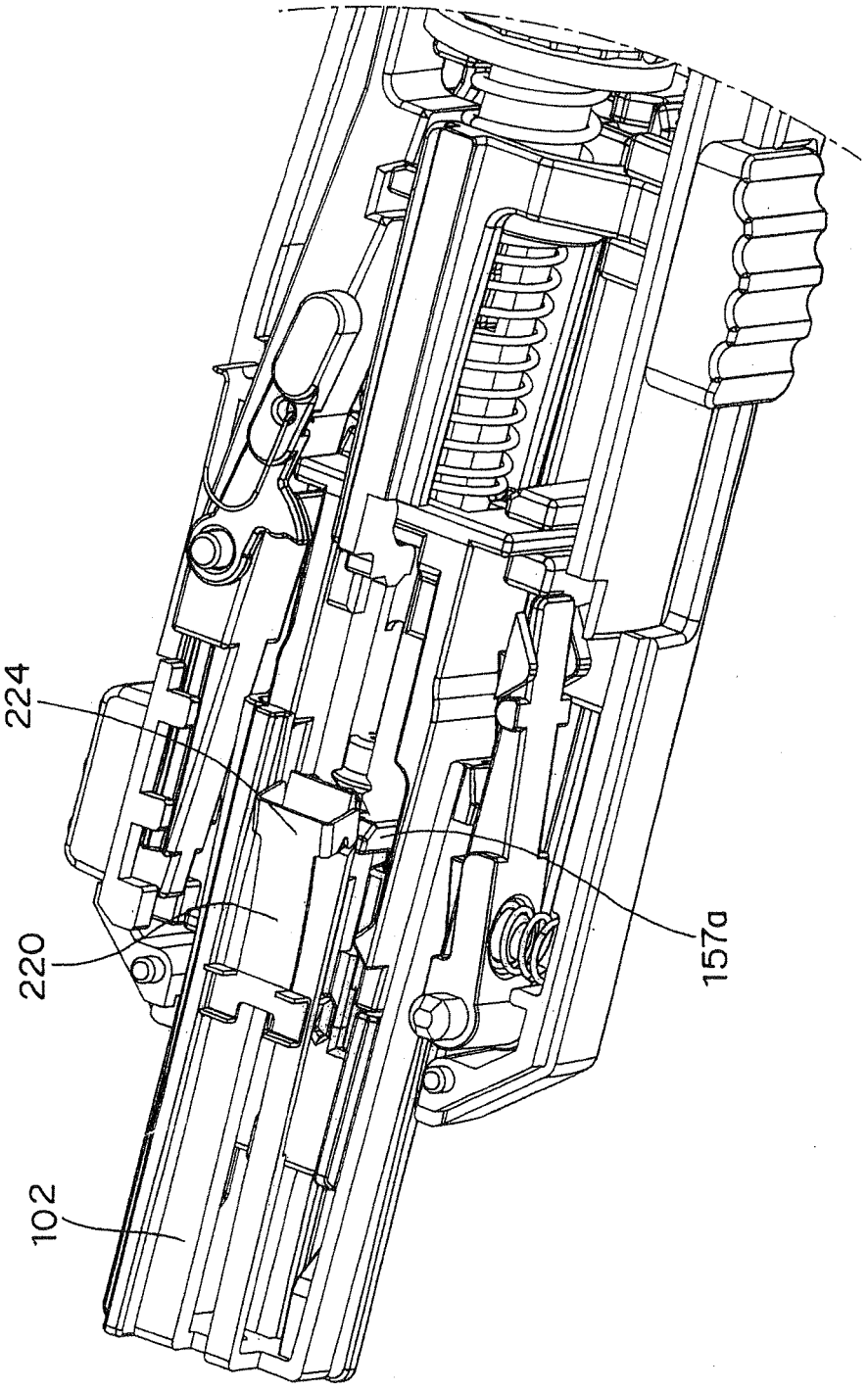


Fig. 33

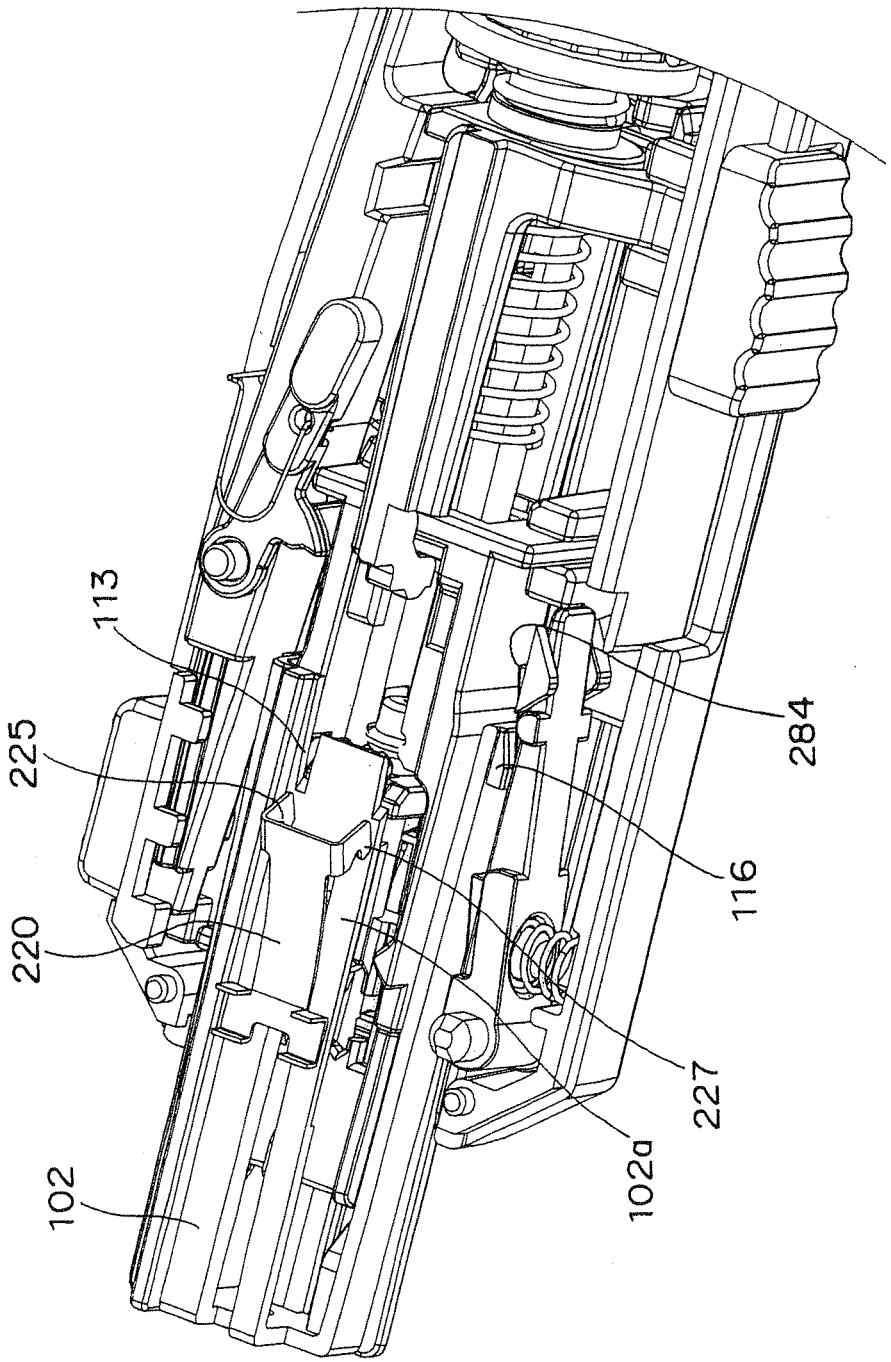


Fig. 34

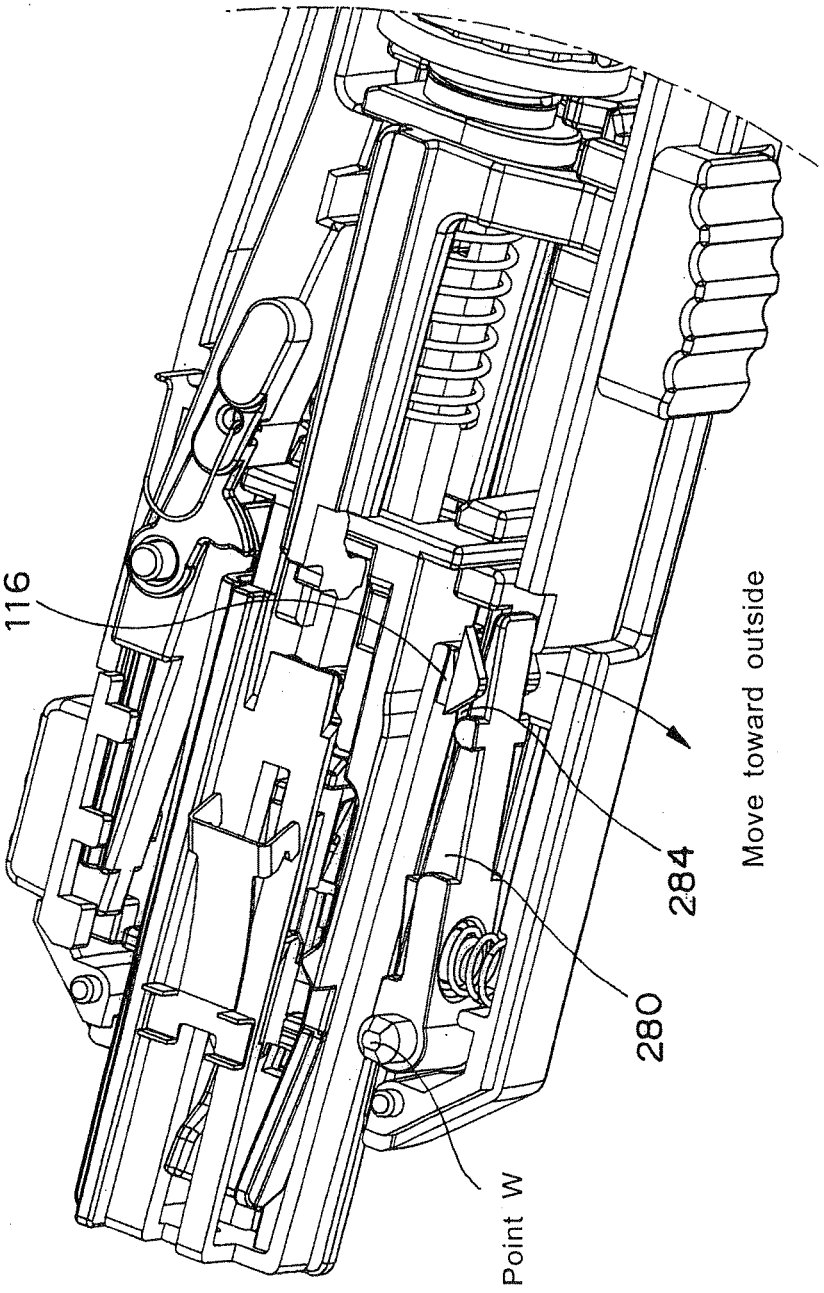


Fig. 35

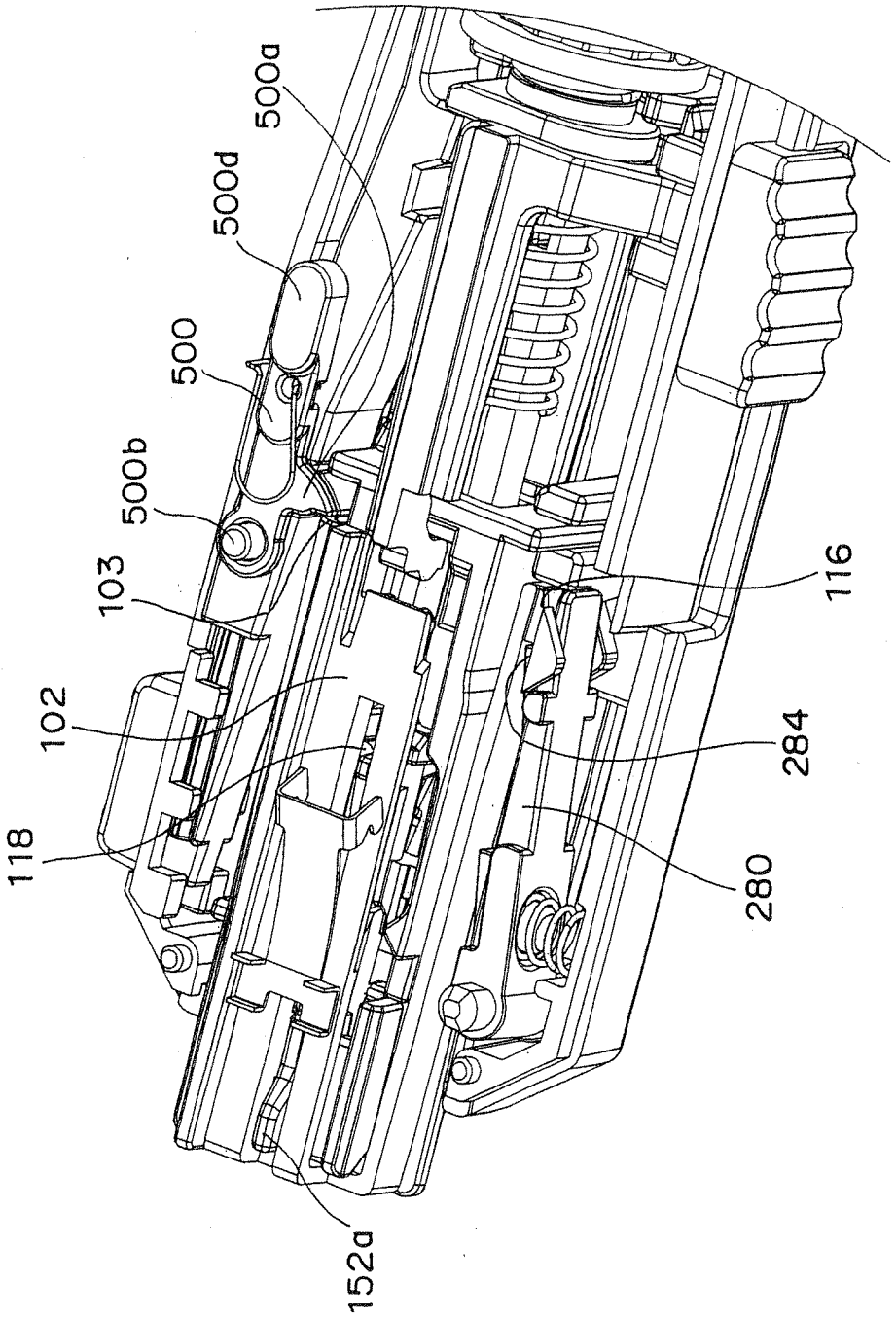


Fig. 36

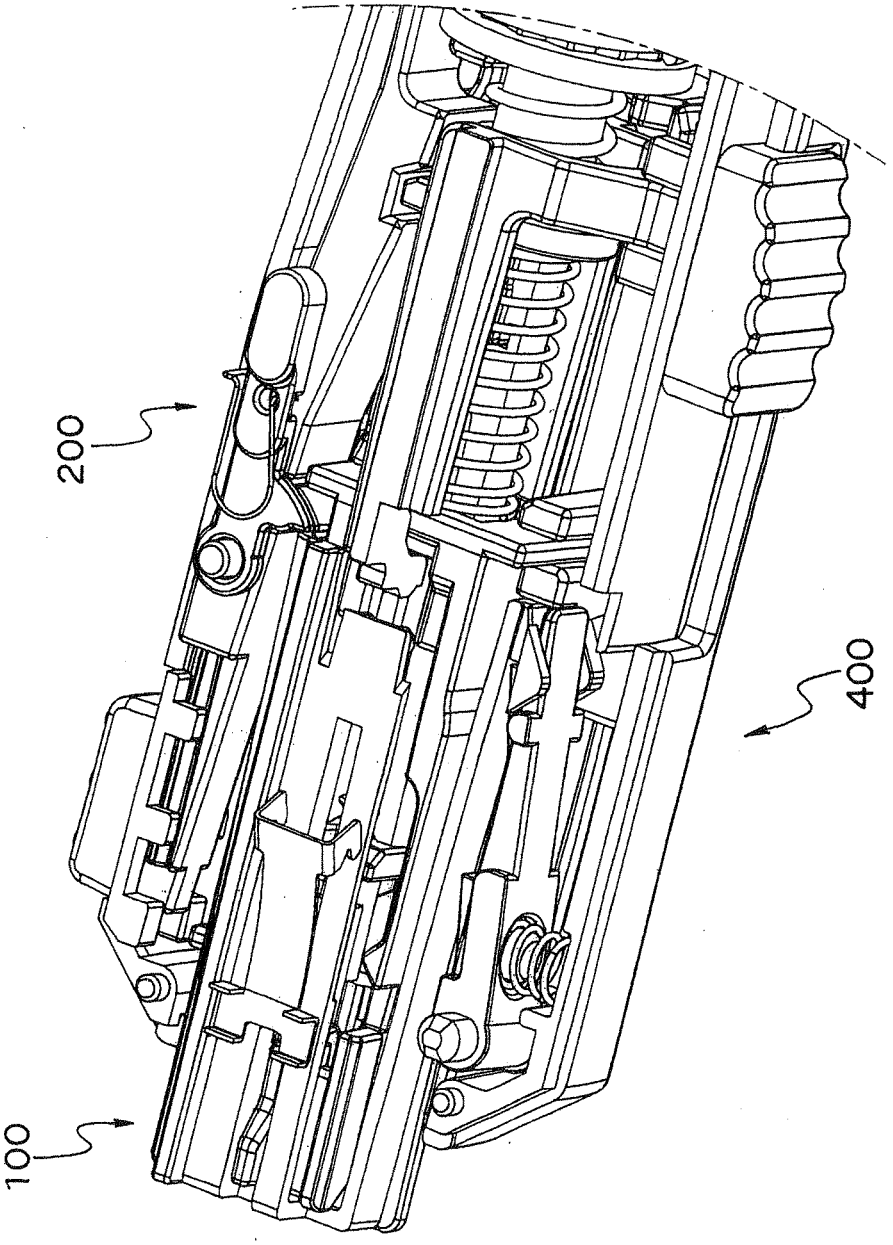


Fig. 37

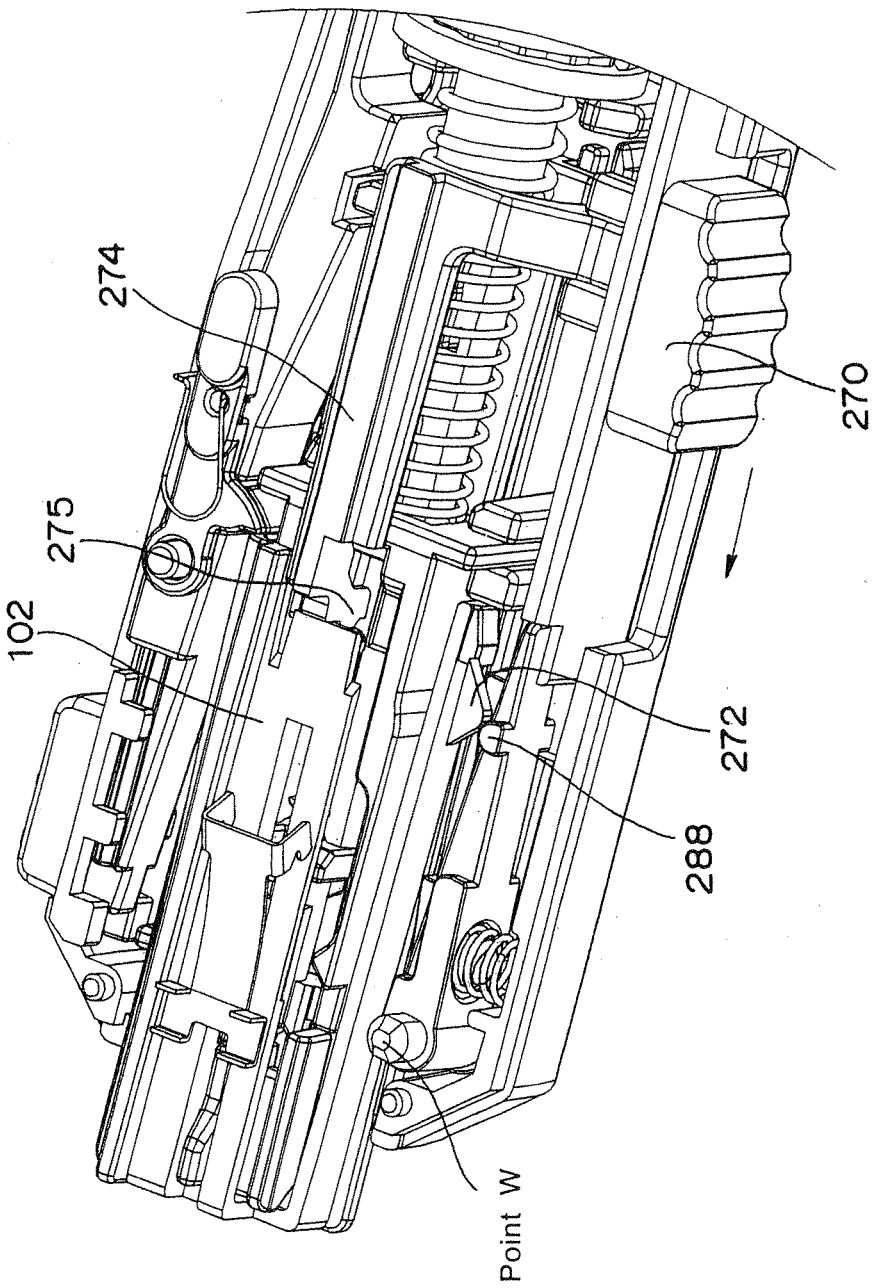


Fig. 38

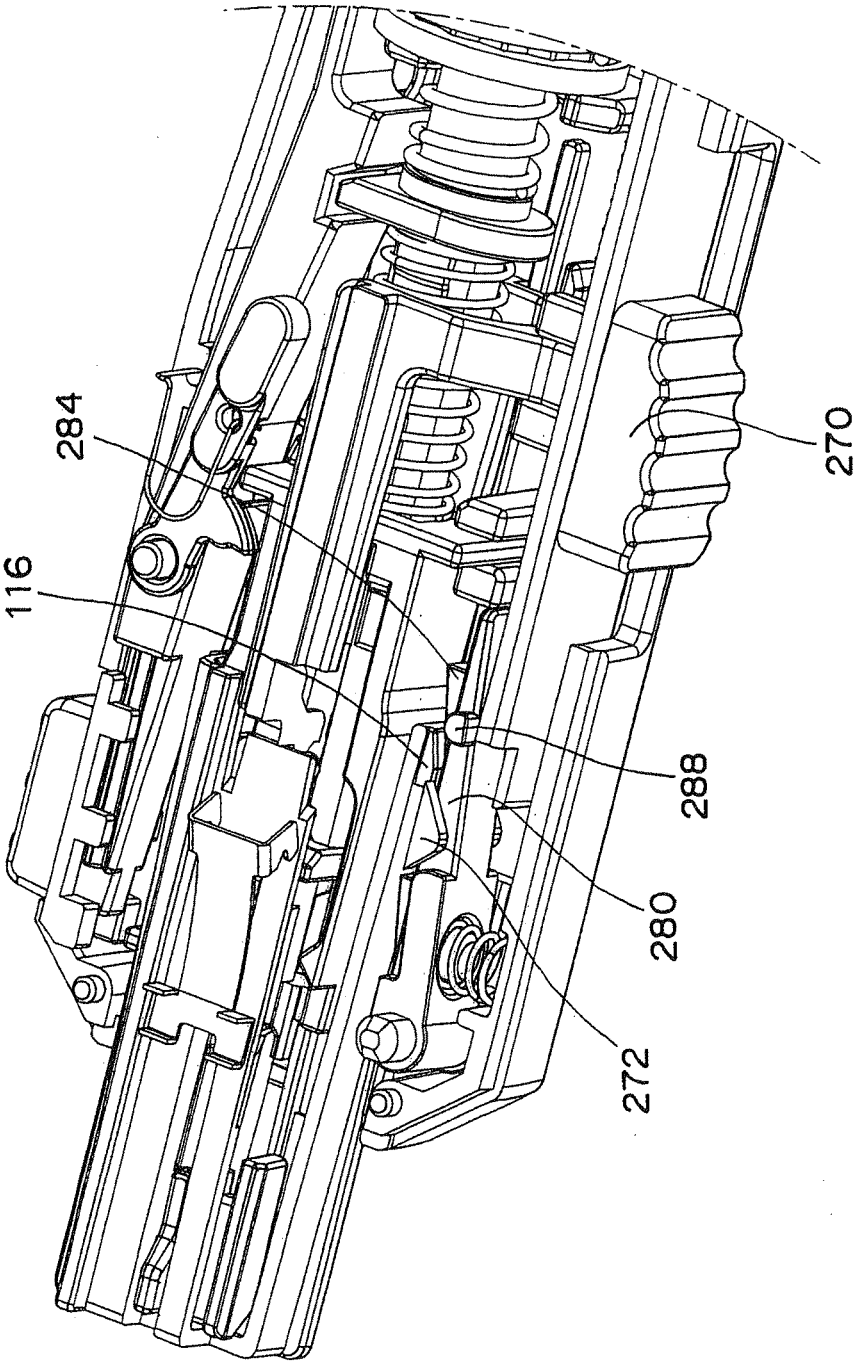


Fig. 39

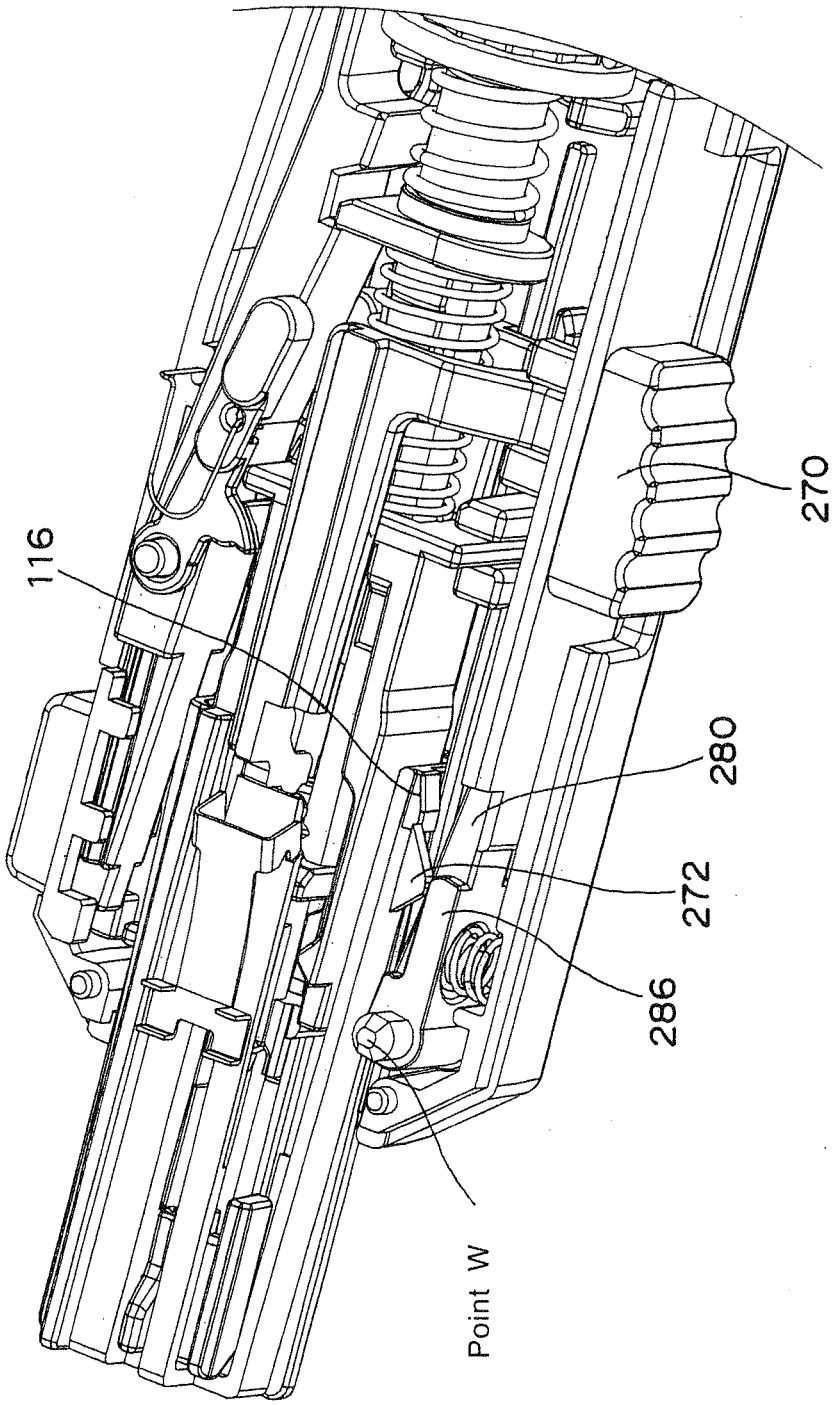


Fig. 40

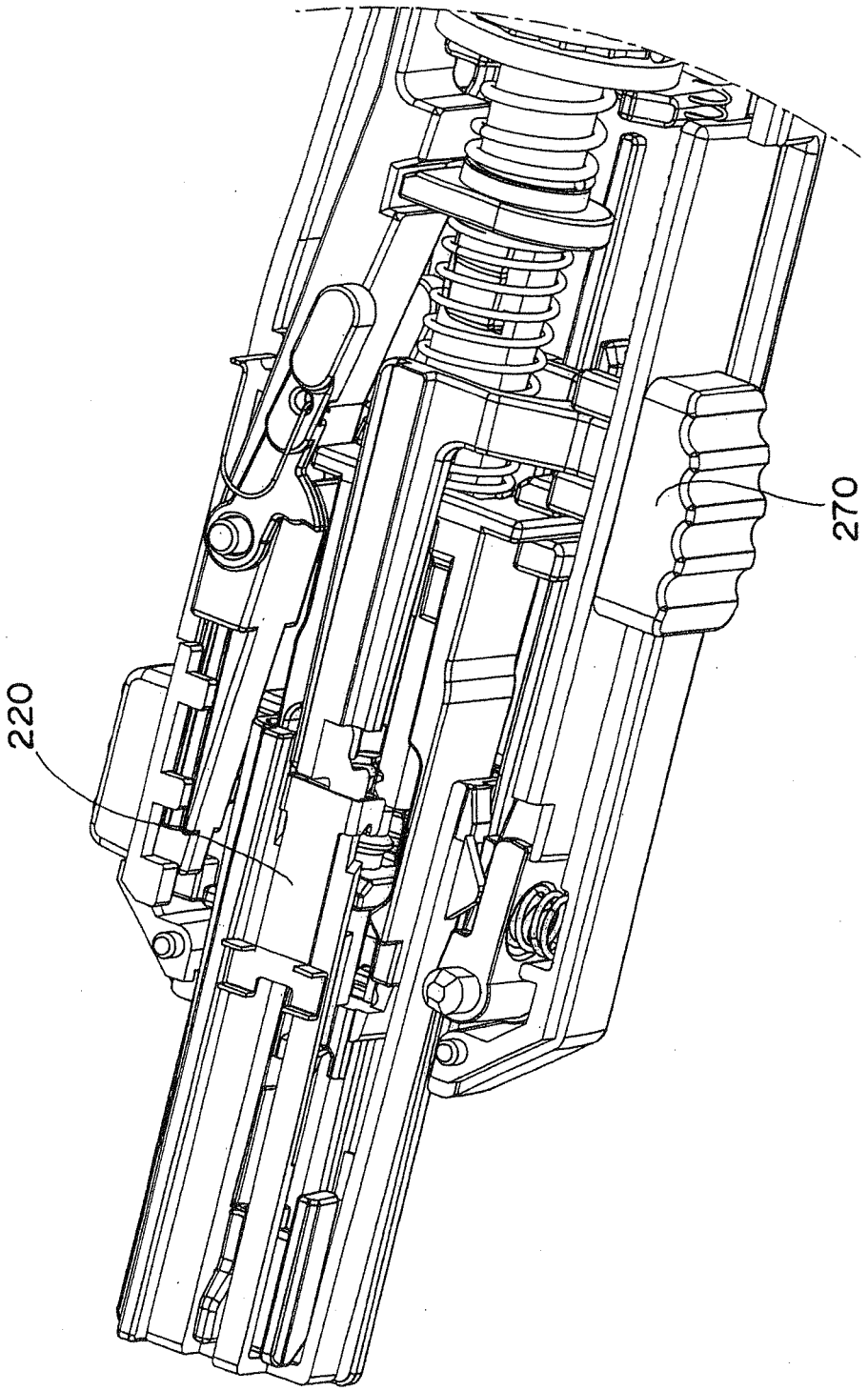


Fig. 41

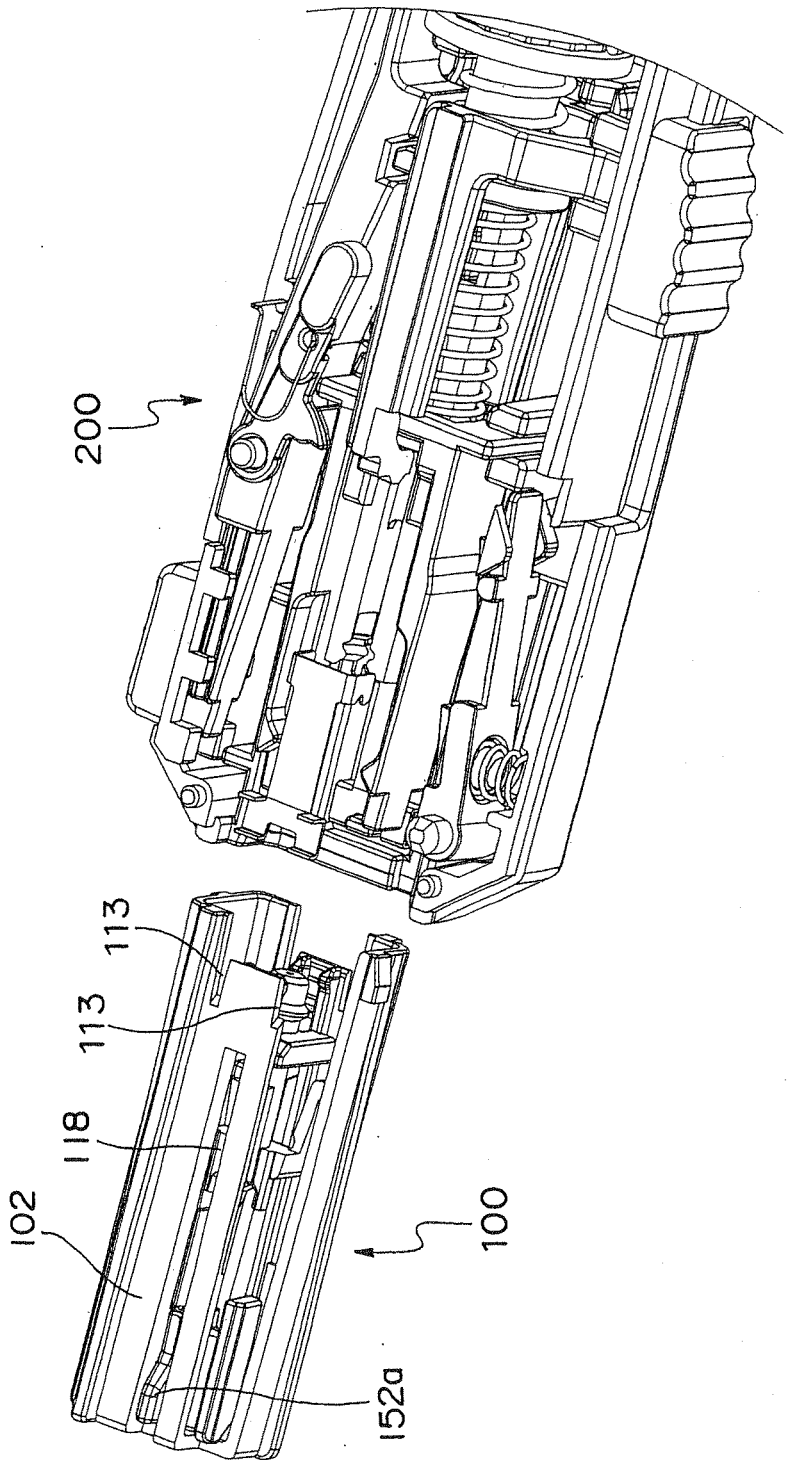


Fig. 42

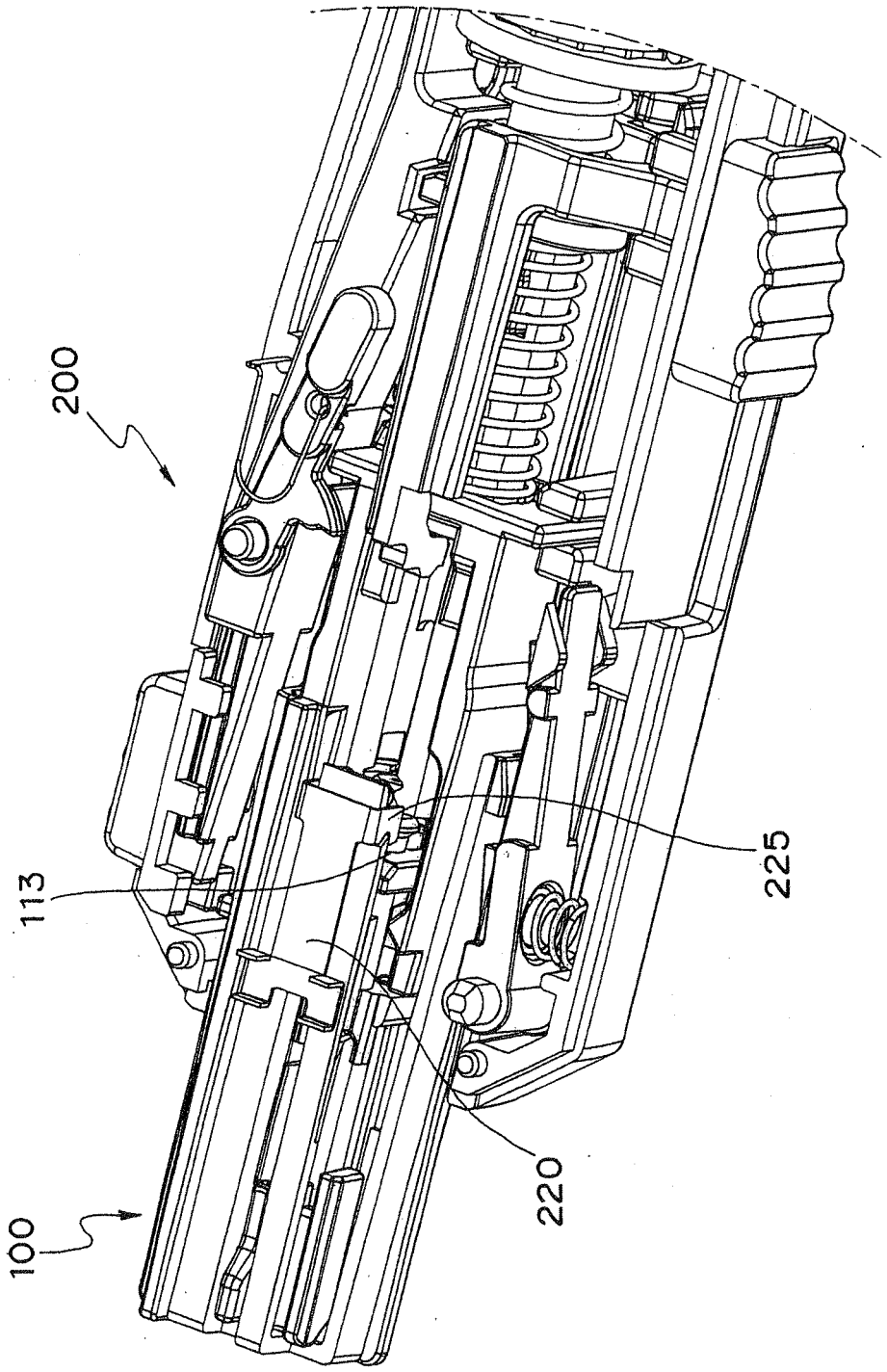


Fig. 43A

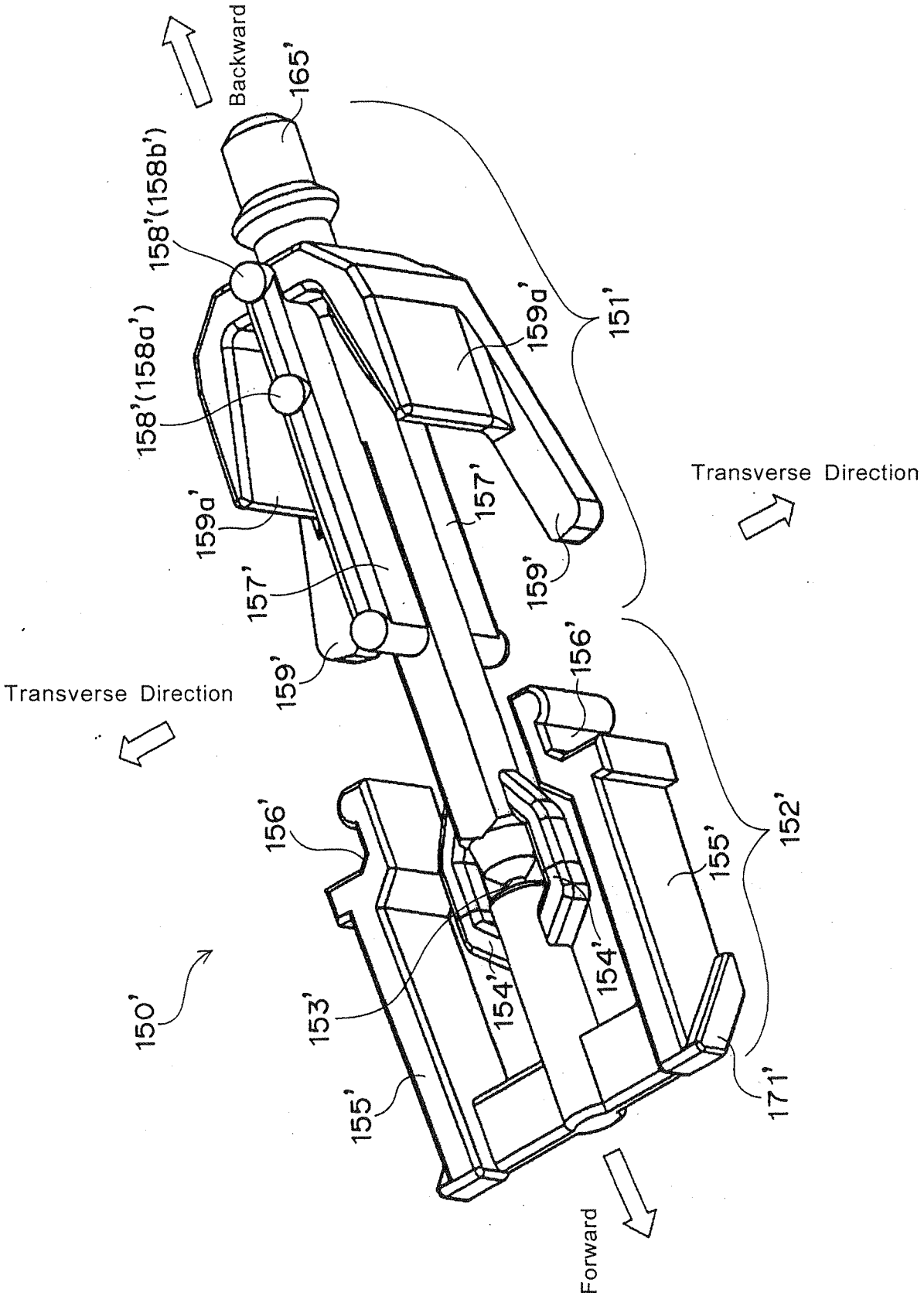

Backward
165'
158'(158b')
158'(158a')
159a'
151'
Transverse Direction
157'
159'
156'
Transverse Direction
152'
155'
154'
153'
150'
171'
Forward

Fig. 43B

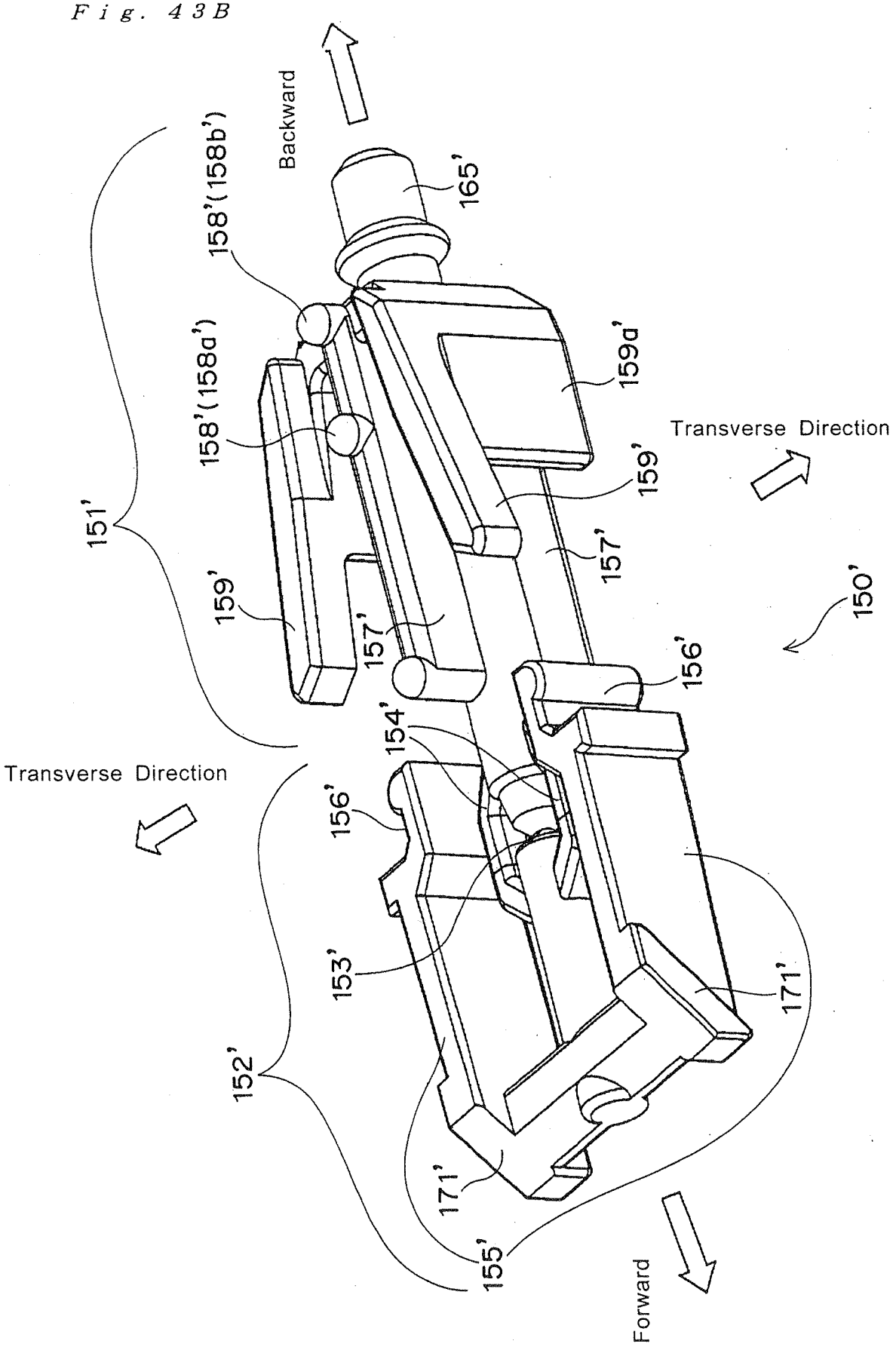

Backward
158'(158b')
165'
158'(158a')
159a'
Transverse Direction
151'
159'
159'
157'
157'
150'
156'
154'
Transverse Direction
156'
153'
171'
152'
171'
155'
Forward

Fig. 43C

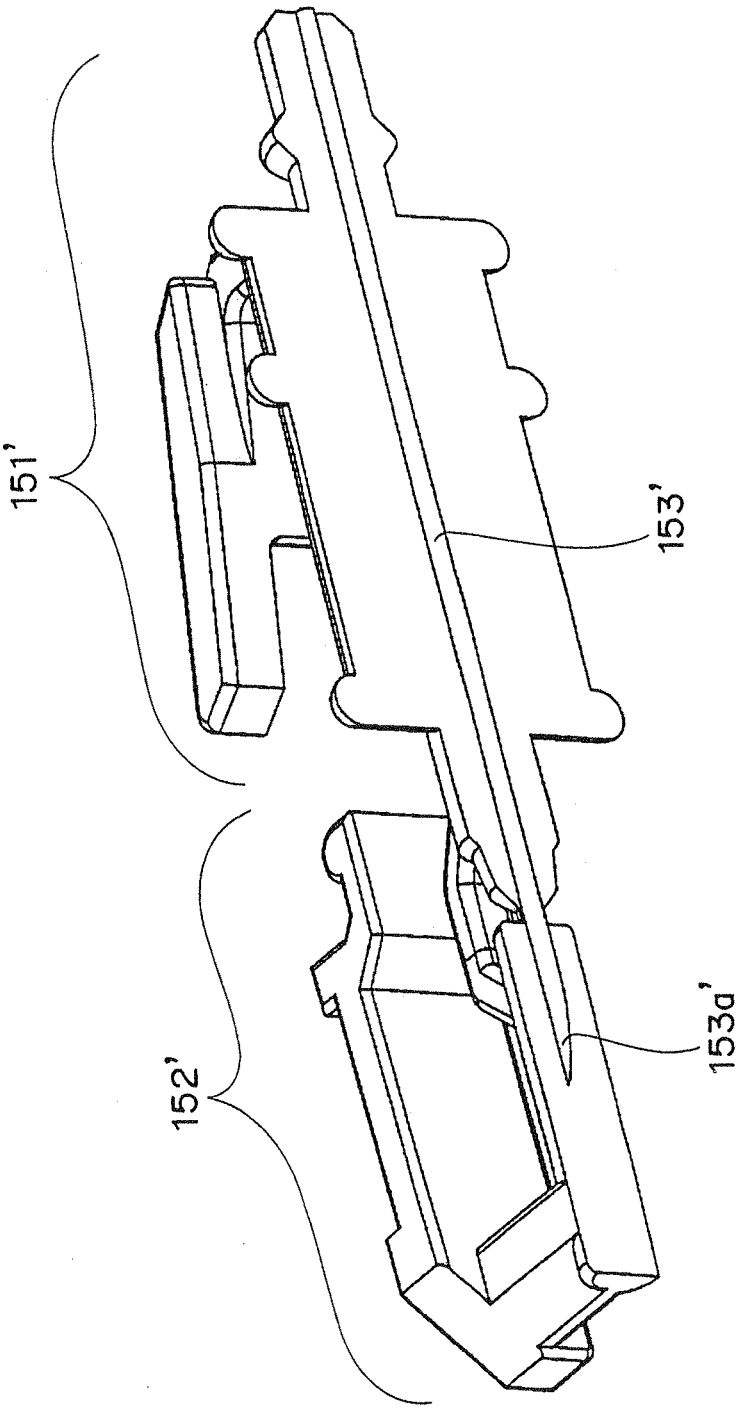


Fig. 44A

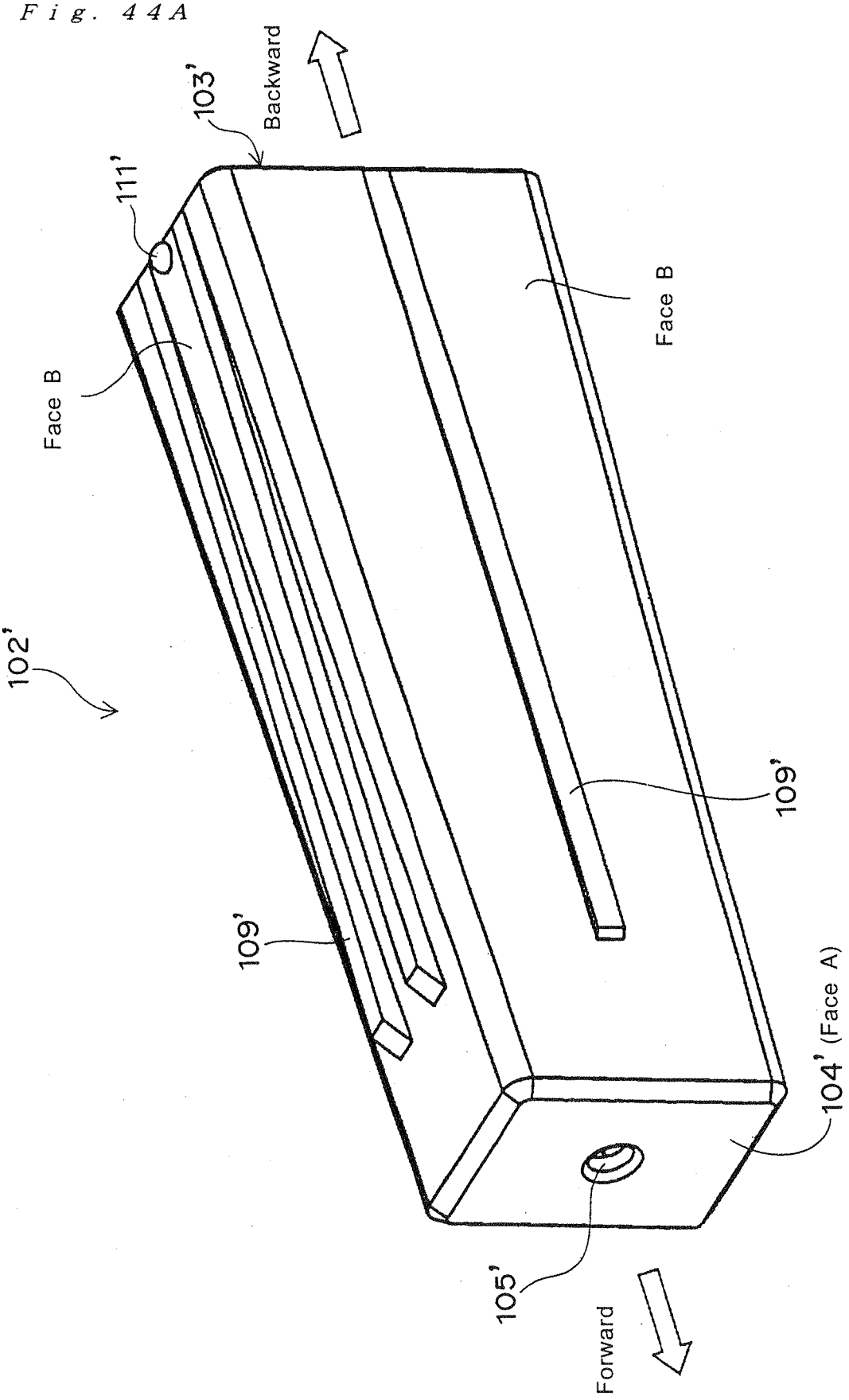

Backward
103'
111'
Face B
Face B
102'
109'
109'
104' (Face A)
105'
Forward

Fig. 44B

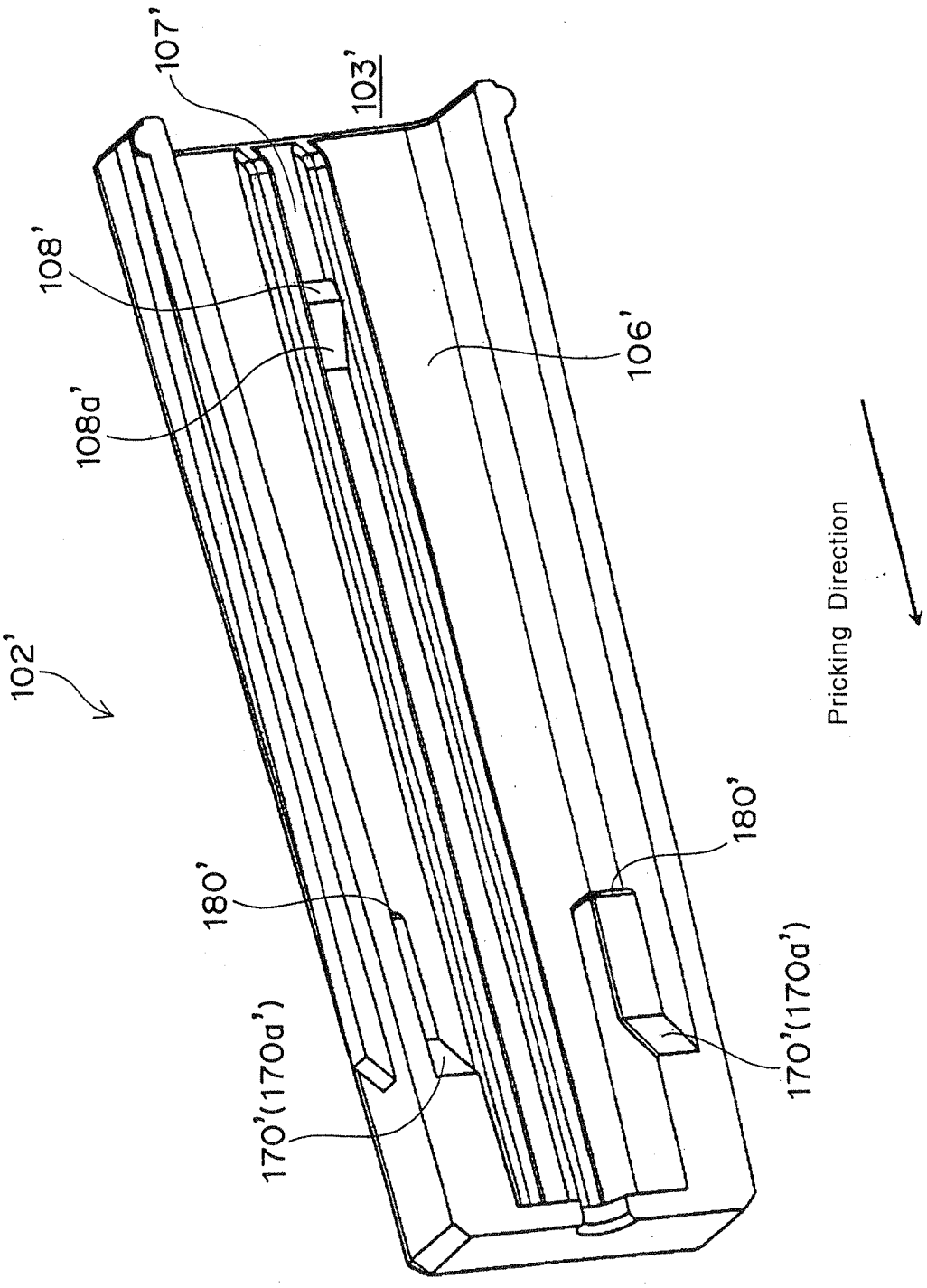
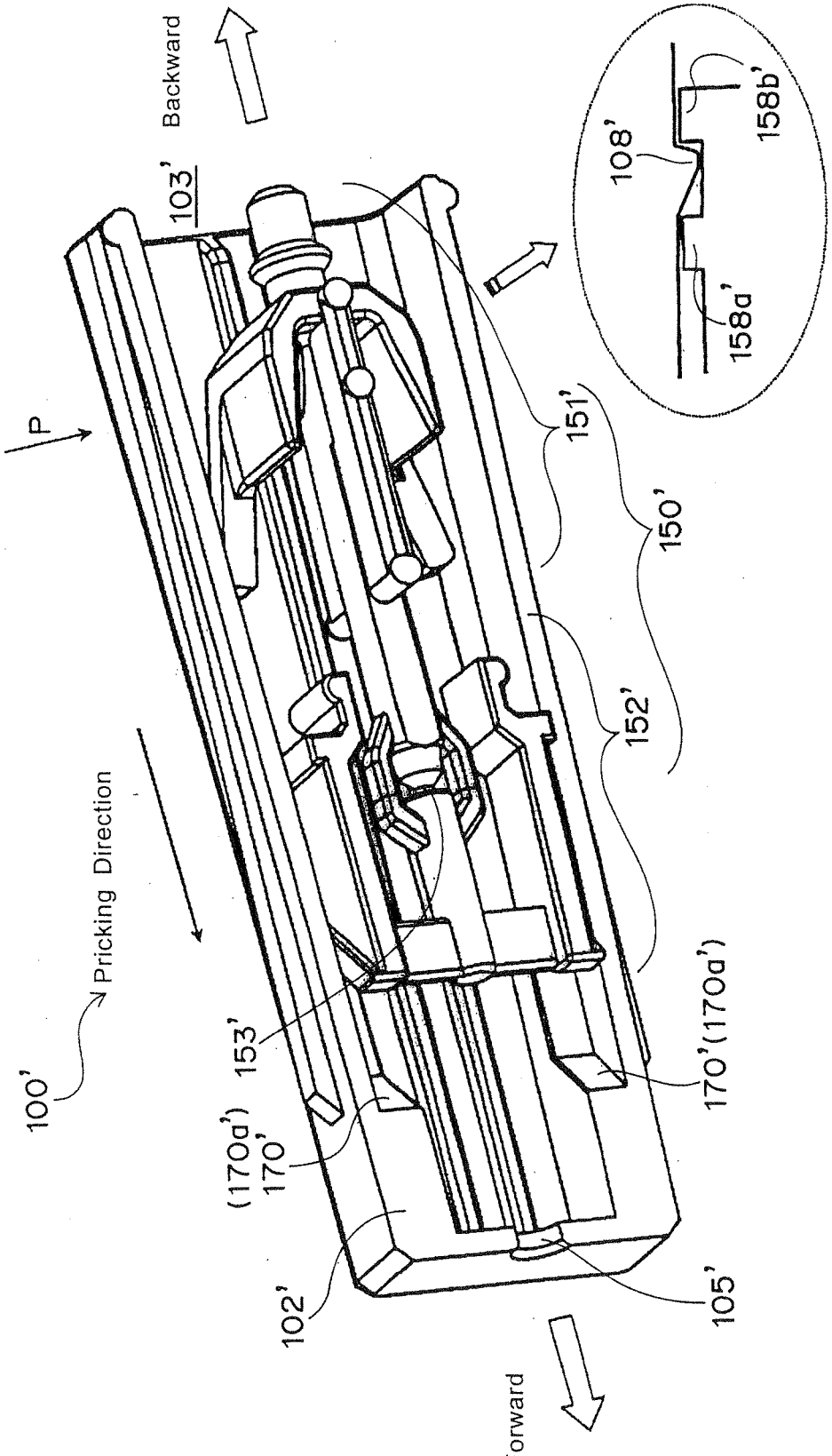

107'
103'
108'
108a'
106'
102'
180'
180'
170'(170a')
170'(170a')
Pricking Direction

Fig. 45



Schematic diagram showing the contact between protrusion A (158a', 158b') and protrusion B (108') (viewed in direction of P)

Fig. 46

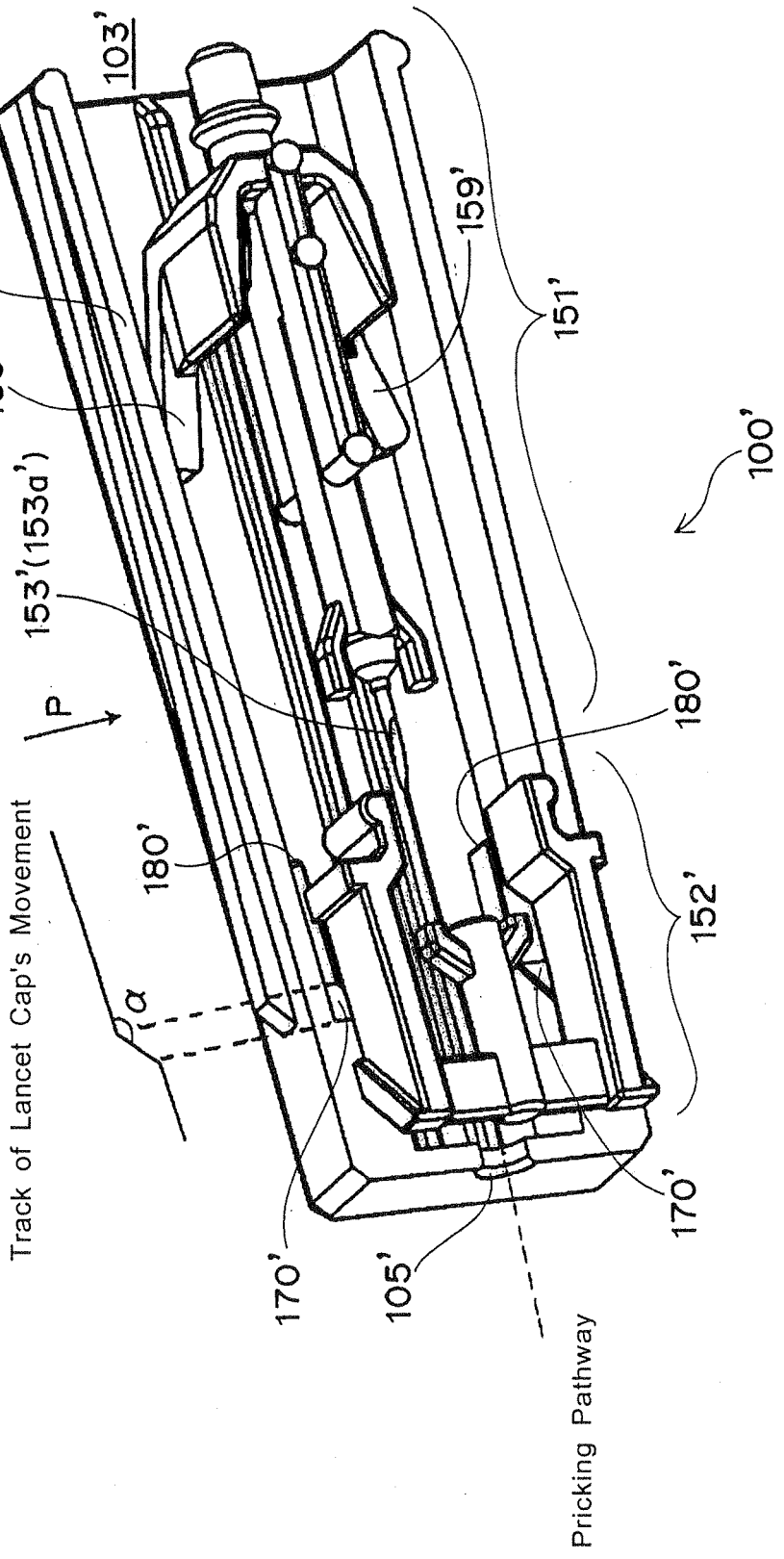

103'
102'
159'
159'
151'
100'
153'(153a')
P
180'
180'
152'
Track of Lancet Cap's Movement
α
170'
105'
170'
Pricking Pathway

Fig. 47A

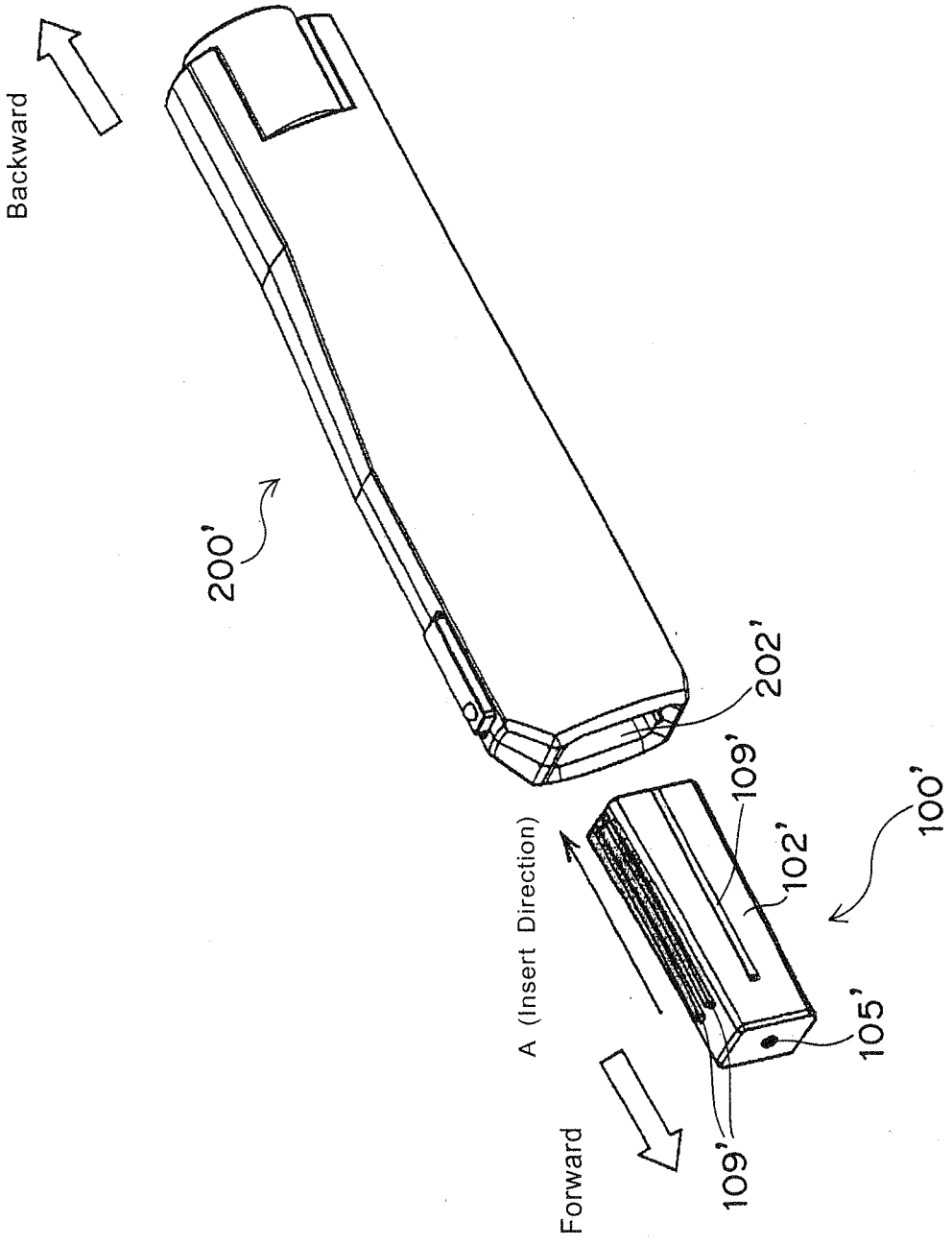

Backward
200'
202'
109'
102'
100'
A (Insert Direction)
105'
109'
Forward

Fig. 47B

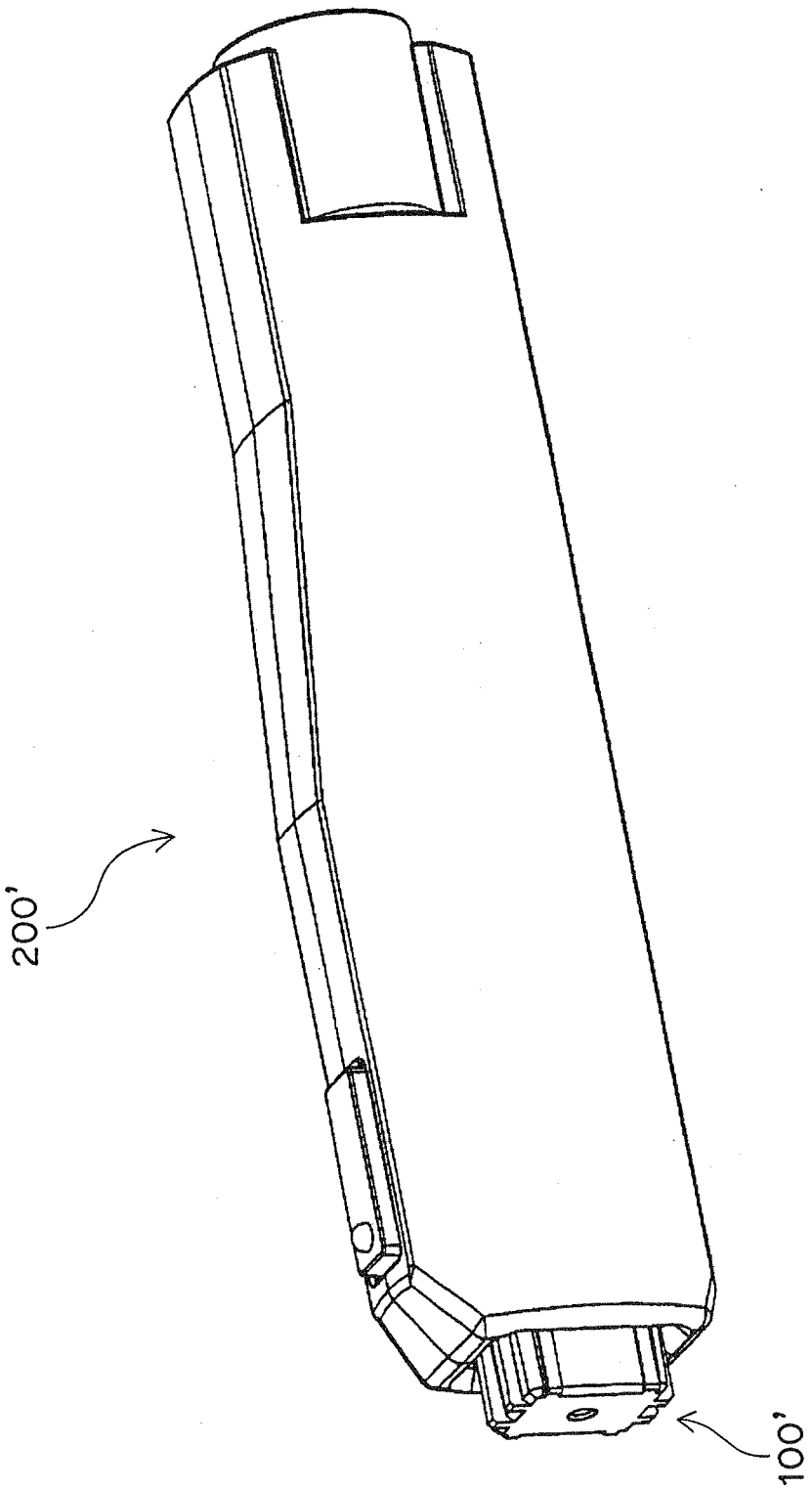


Fig. 48

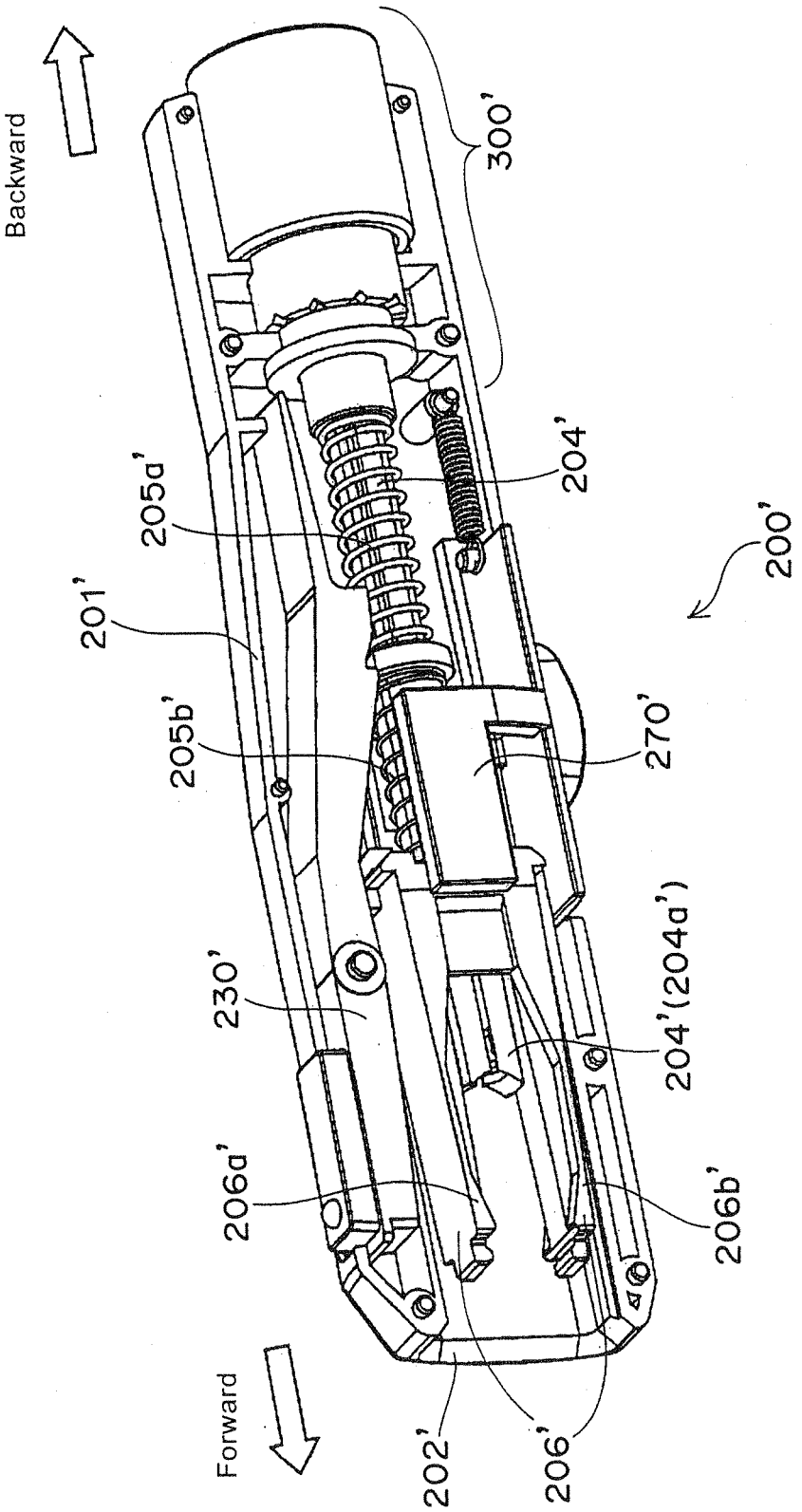

Backward
300'
204'
205a'
200'
201'
205b'
270'
230'
204'(204a')
206a'
206b'
Forward
202'
206'

Fig. 49

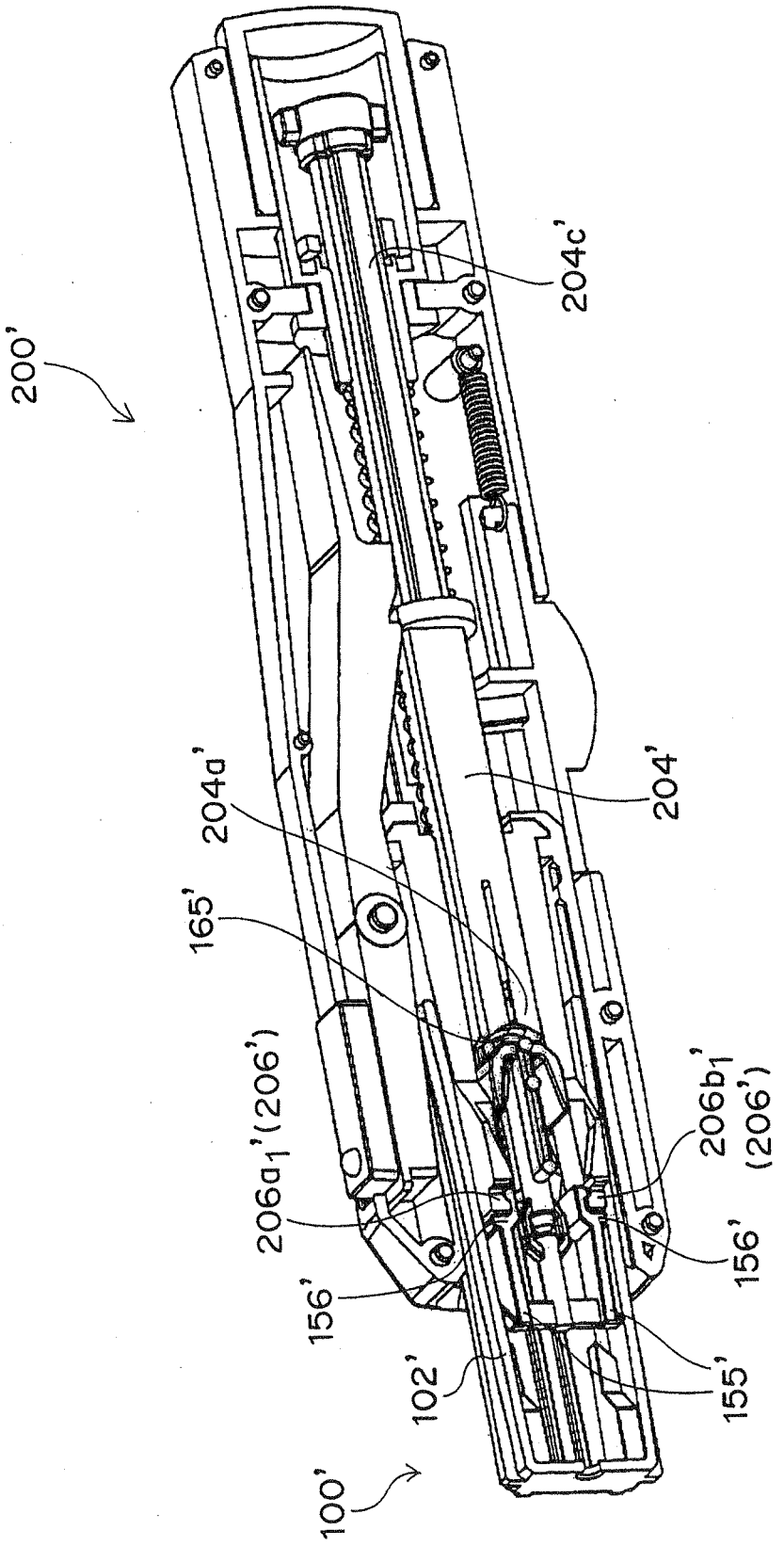


Fig. 50

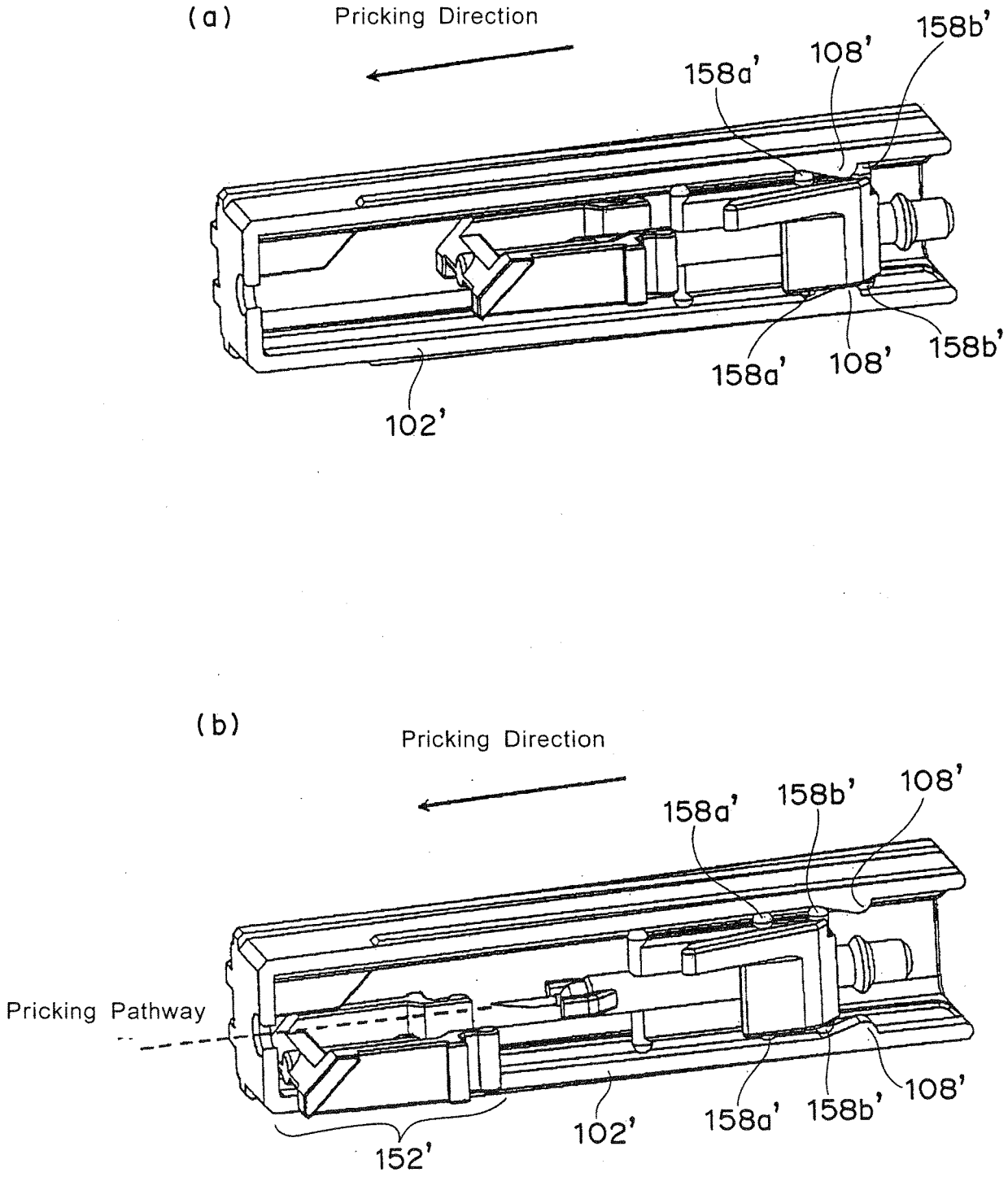

(a)
Pricking Direction
158b'
108'
158a'
158a'
108'
158b'
102'
(b)
Pricking Direction
158a'
158b'
108'
Pricking Pathway
108'
158b'
158a'
102'
152'

Fig. 51A

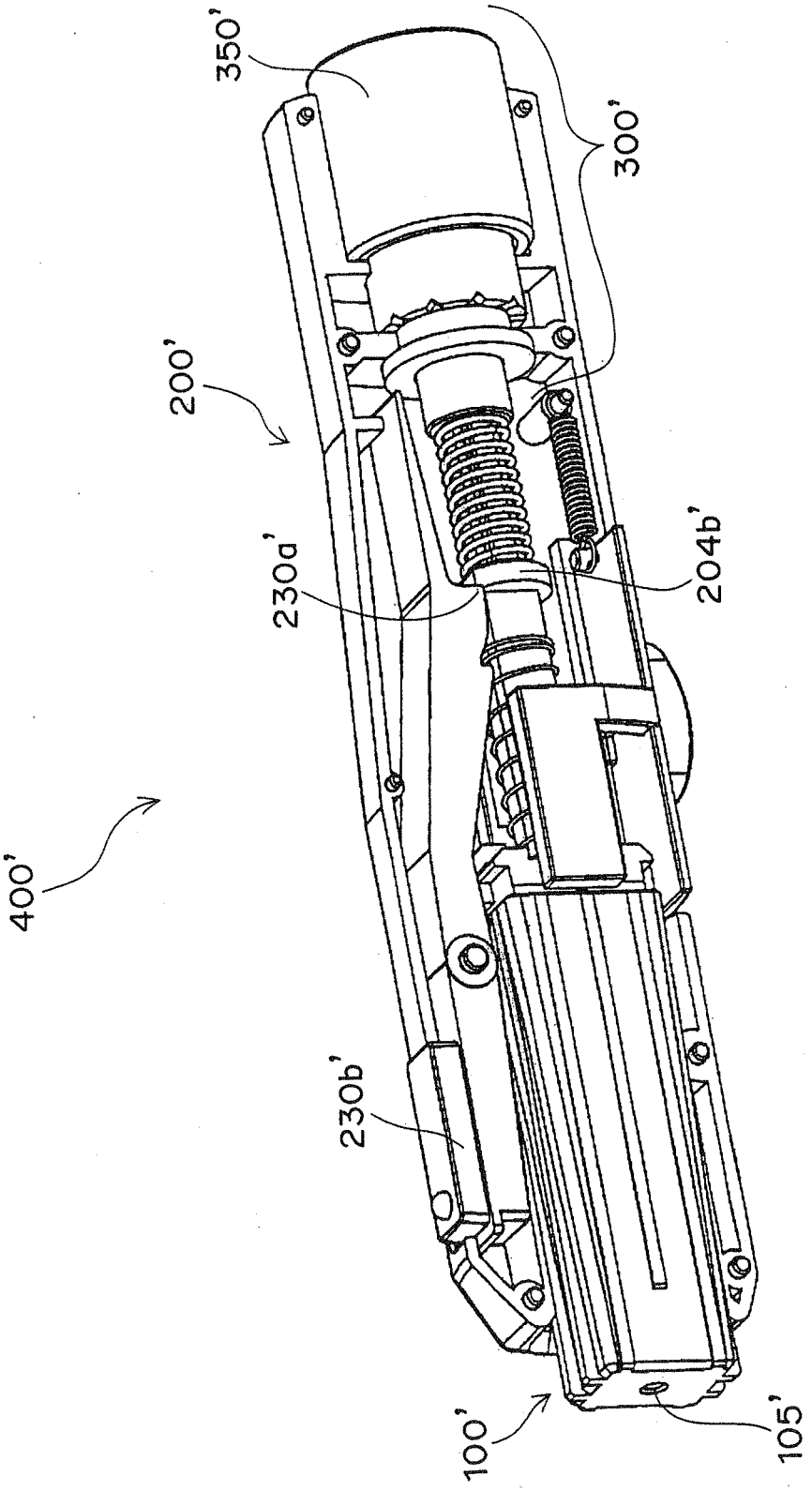


Fig. 51B

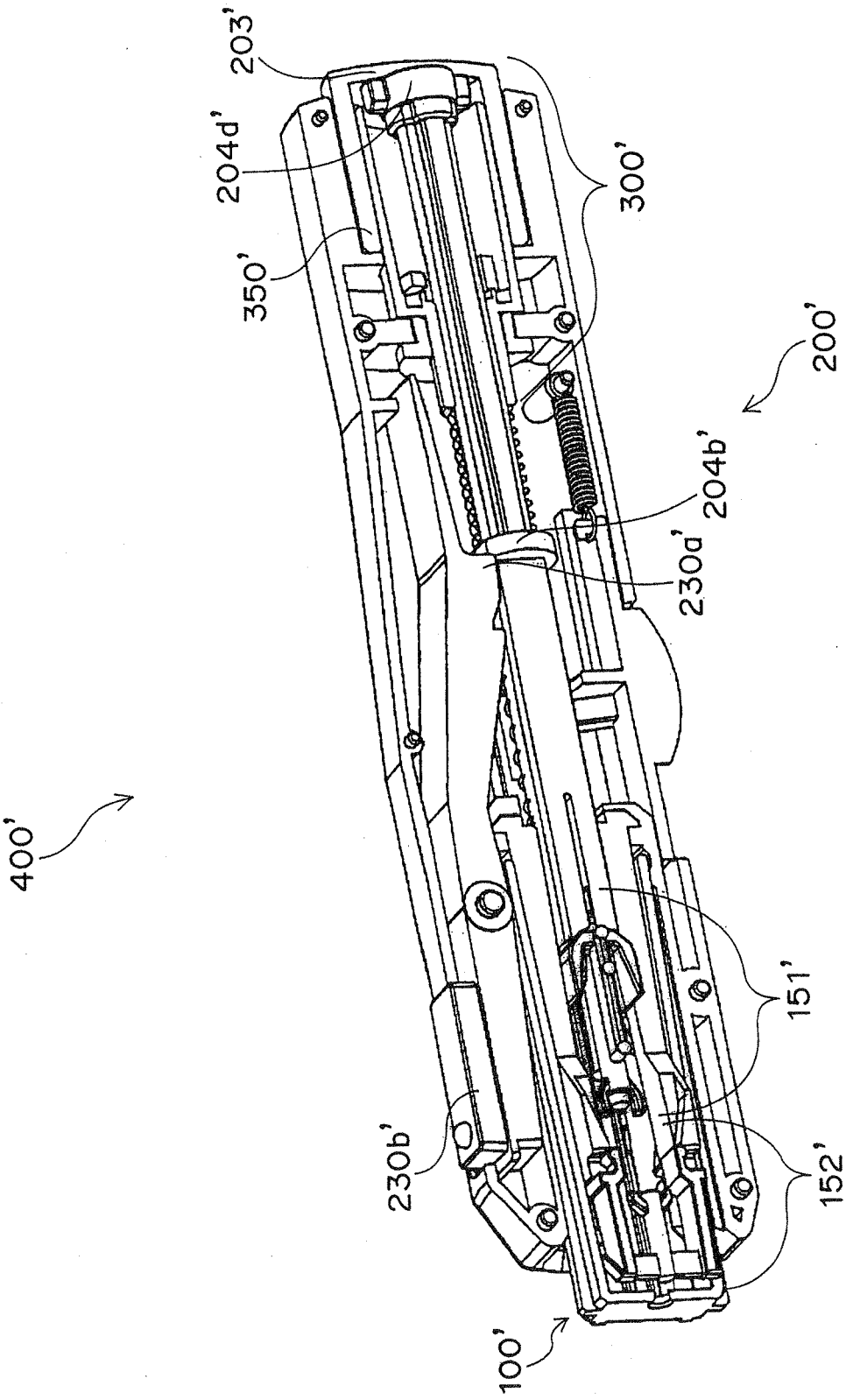


Fig. 52A

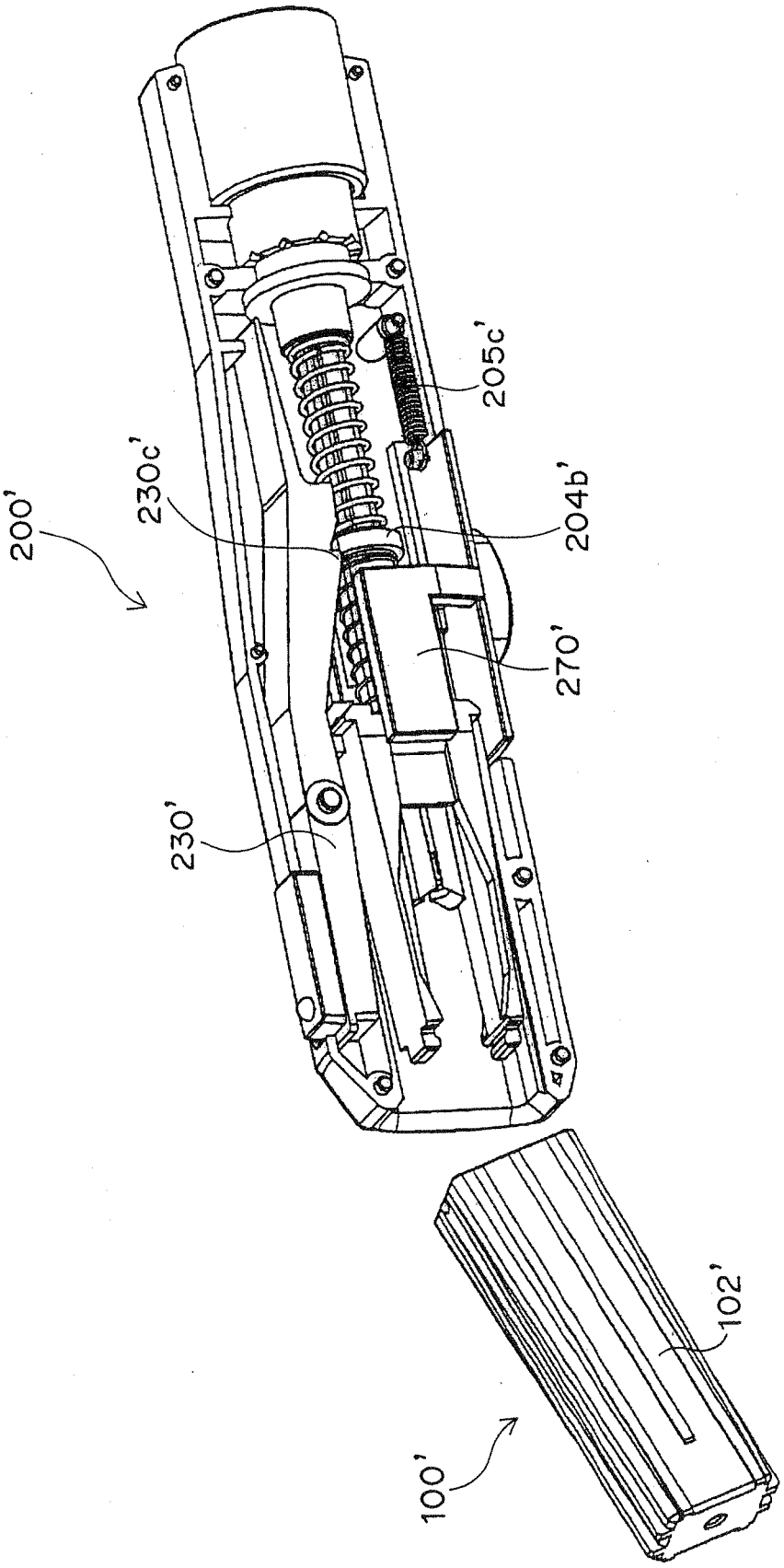


Fig. 52B

