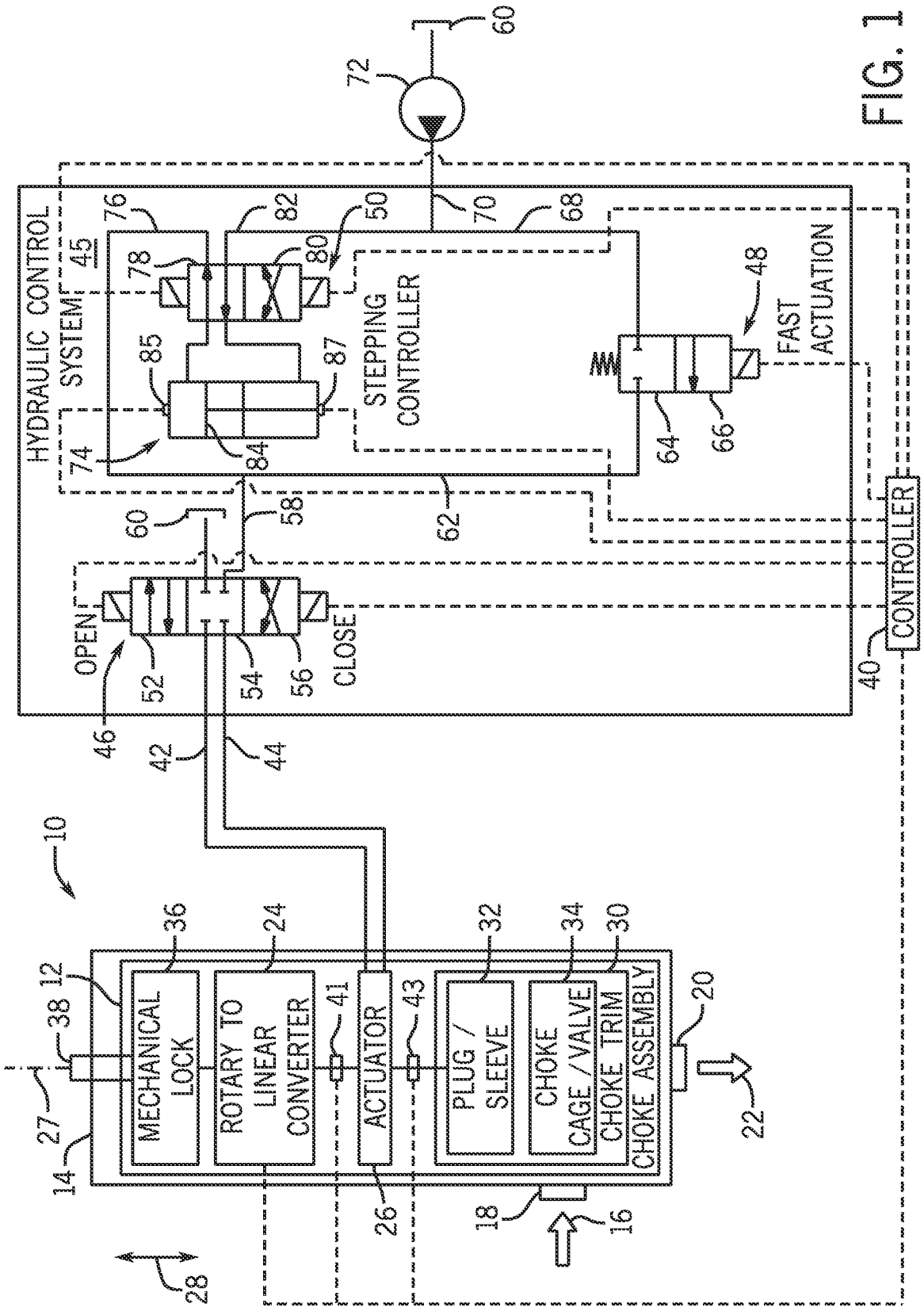
HYDRAULIC CONTROL SYSTEM
45
STEPPING CONTROLLER
FAST ACTUATION
OPEN
CLOSE
CONTROLLER
MECHANICAL LOCK
ROTARY TO LINEAR CONVERTER
ACTUATOR
PLUG / SLEEVE
CHOKE CAGE / VALVE
CHOKE TRIM
CHOKE ASSEMBLY
10
12
14
16
18
20
22
24
26
27
28
30
32
34
36
38
40
41
42
43
44
46
48
50
52
54
56
58
60
62
64
66
68
70
72
74
76
78
80
82
84
85
87

FIG. 1

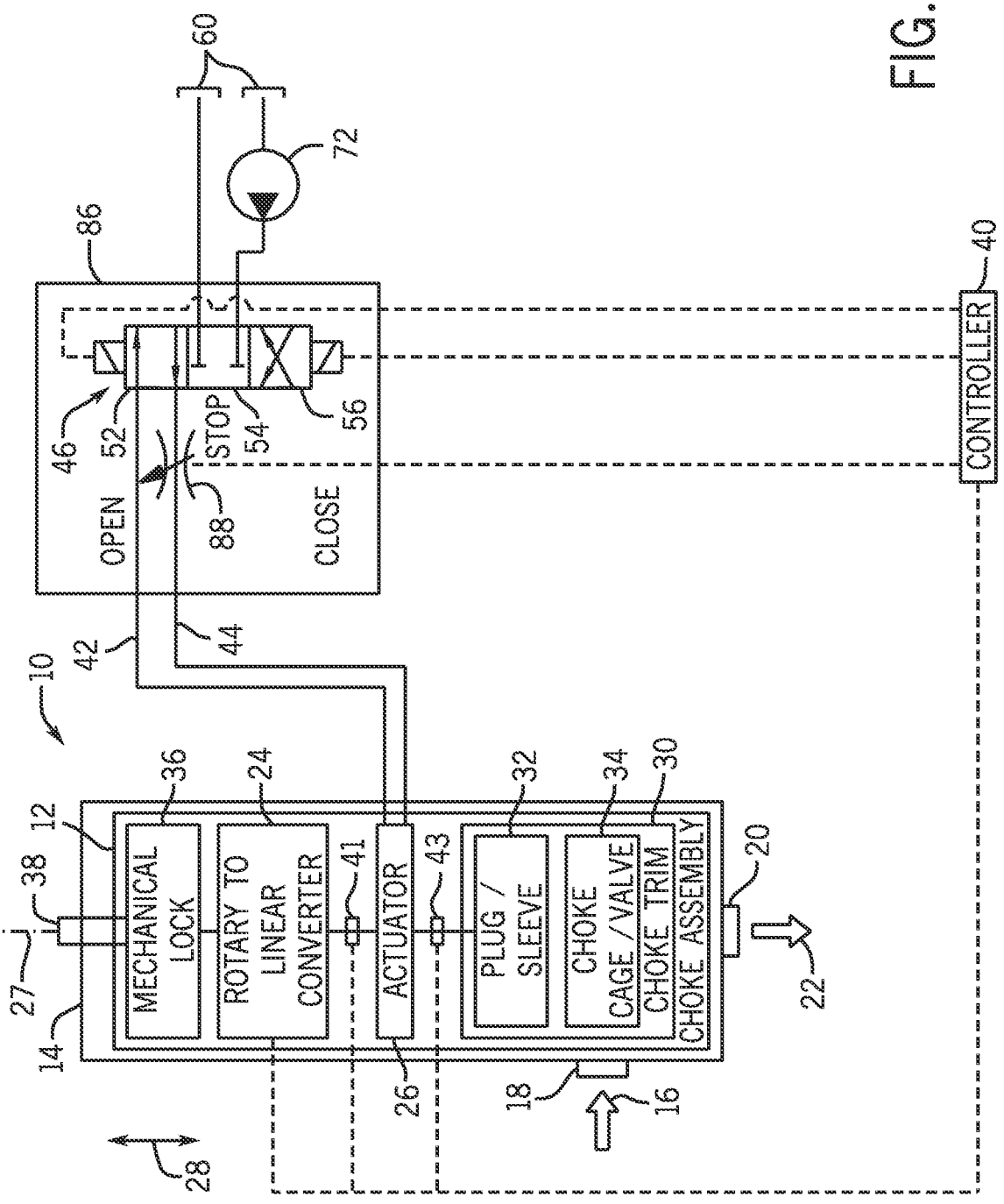
60
72
86
40
CONTROLLER
46
52
STOP
54
56
OPEN
88
CLOSE
42
44
10
12
36
24
32
34
30
38
MECHANICAL LOCK
ROTARY TO LINEAR CONVERTER
41
ACTUATOR
43
PLUG / SLEEVE
CHOKE CAGE / VALVE
CHOKE TRIM
CHOKE ASSEMBLY
20
22
27
14
26
18
16
28

FIG. 2

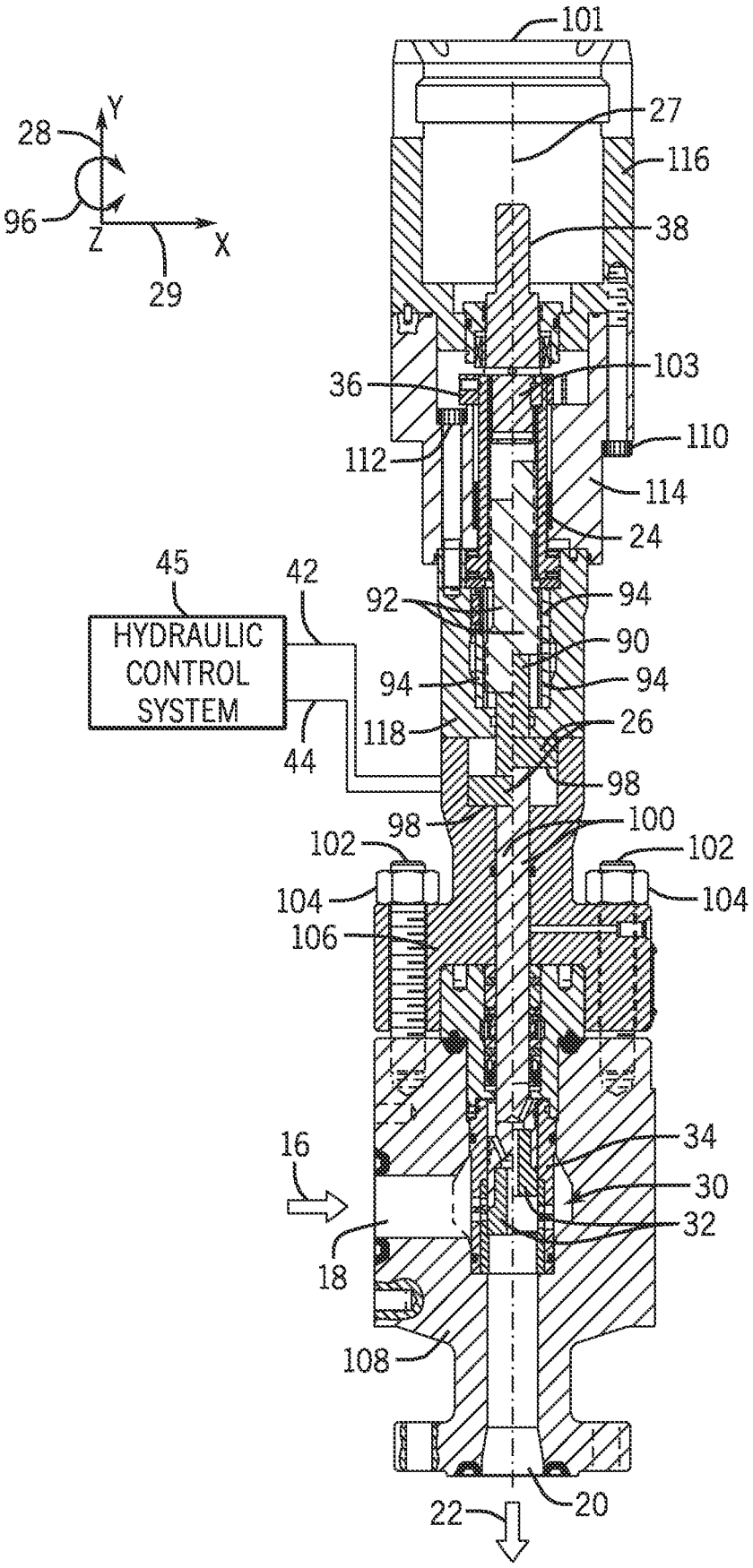
101
10
27
116
38
103
36
110
112
114
24
45
42
92
94
90
94
94
HYDRAULIC CONTROL SYSTEM
118
26
44
98
98
100
102
102
104
104
106
16
34
30
32
18
108
22
20
Y
28
96
Z
X
29

FIG. 3

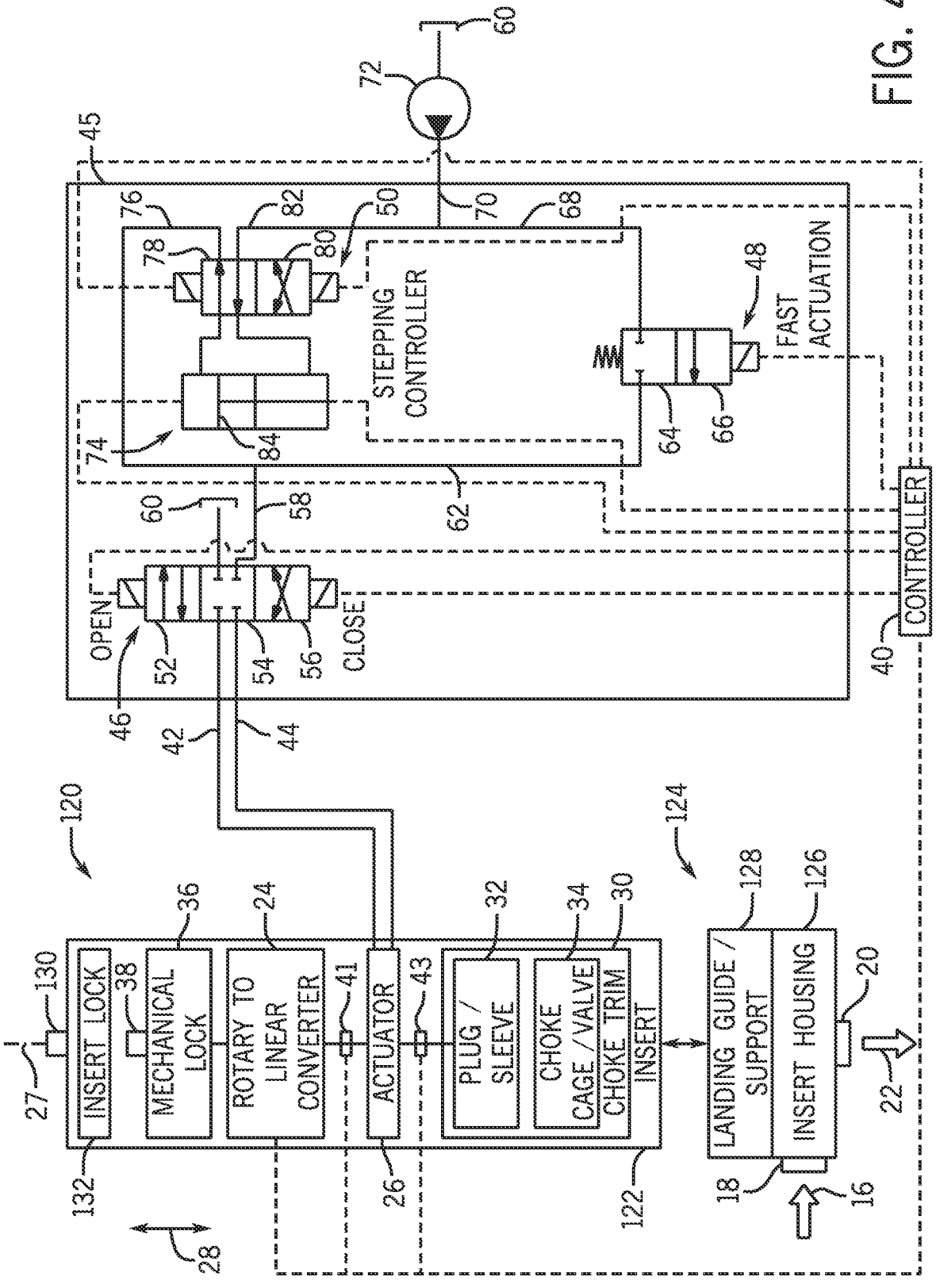
INSERT LOCK
MECHANICAL LOCK
ROTARY TO LINEAR CONVERTER
ACTUATOR
PLUG / SLEEVE
CHOKE CAGE / VALVE
CHOKE TRIM INSERT
LANDING GUIDE / SUPPORT
INSERT HOUSING
STEPPING CONTROLLER
FAST ACTUATION
OPEN
CLOSE
CONTROLLER
120
124
130
38
36
24
41
43
32
34
30
128
126
20
22
27
132
26
122
18
16
28
45
72
60
76
82
50
70
68
78
80
48
74
84
64
66
62
58
52
54
56
46
42
44
40

FIG. 4

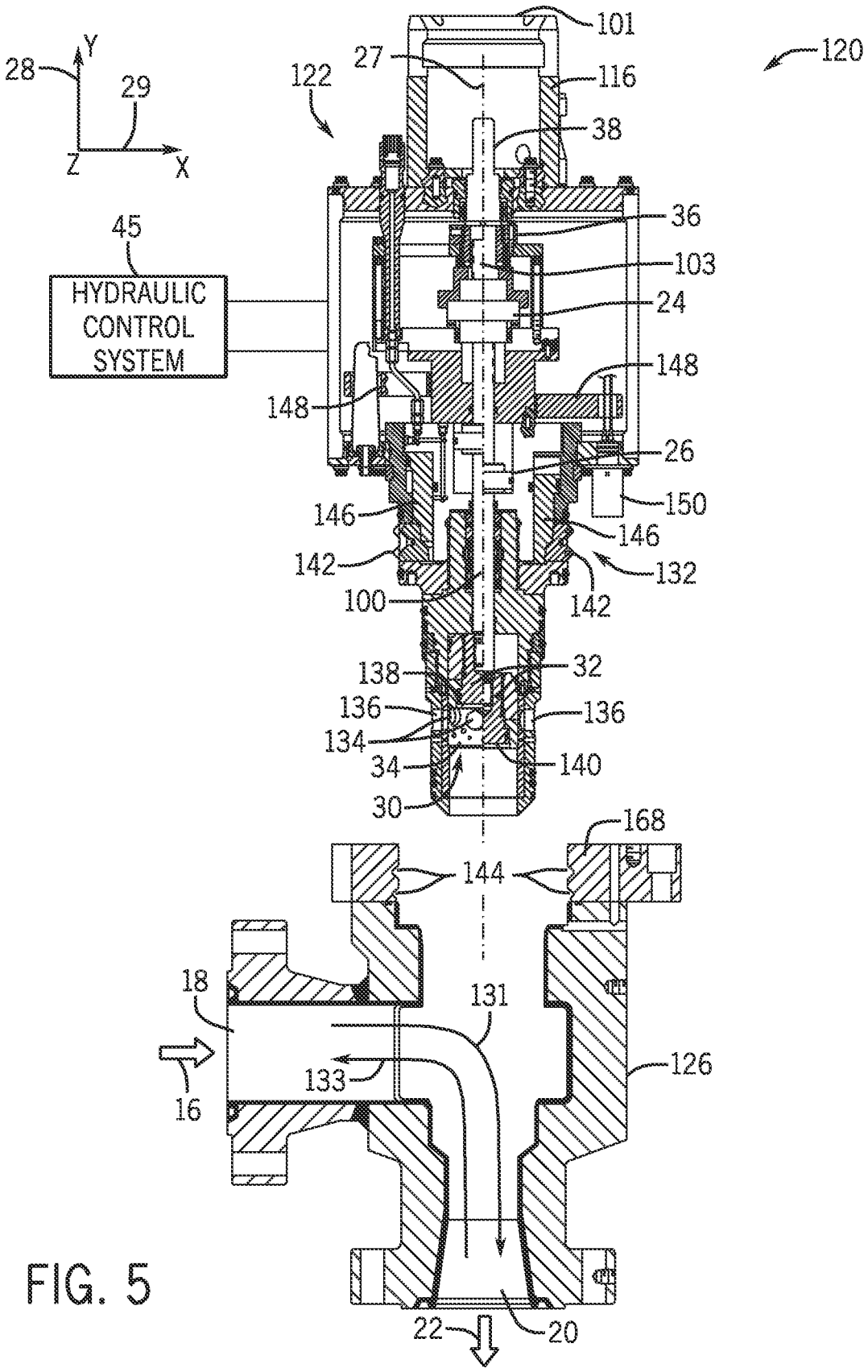
Y
28
29
Z
X
45
HYDRAULIC CONTROL SYSTEM
101
120
27
122
116
38
36
103
24
148
148
26
150
146
146
142
132
142
100
138
32
136
136
134
34
140
30
168
144
18
131
133
126
16
22
20

FIG. 5

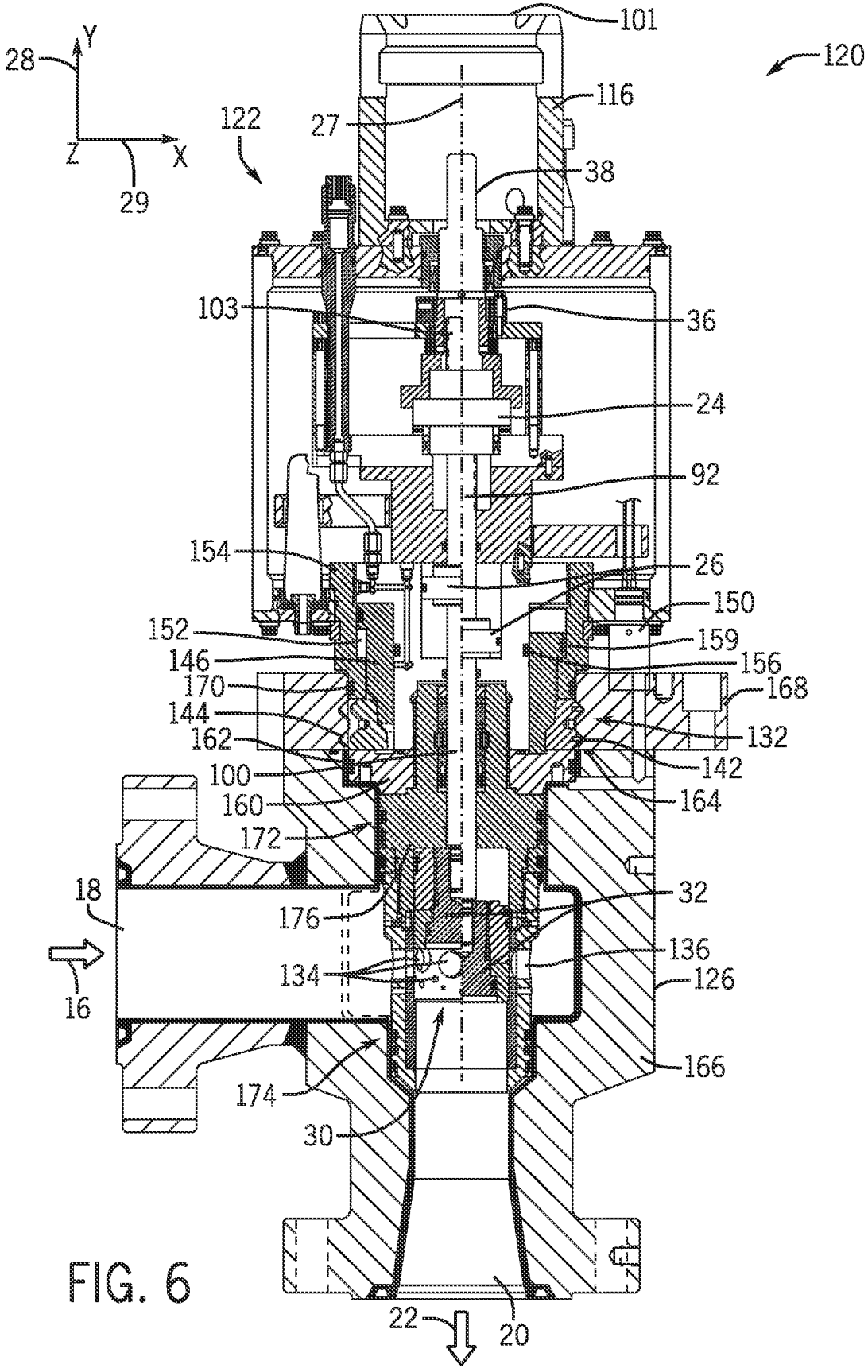
Y
28
Z
X
29
122
27
101
120
116
38
103
36
24
92
154
26
150
152
159
146
156
170
168
144
132
162
142
100
164
160
172
18
32
176
136
134
126
16
166
174
30
22
20

FIG. 6