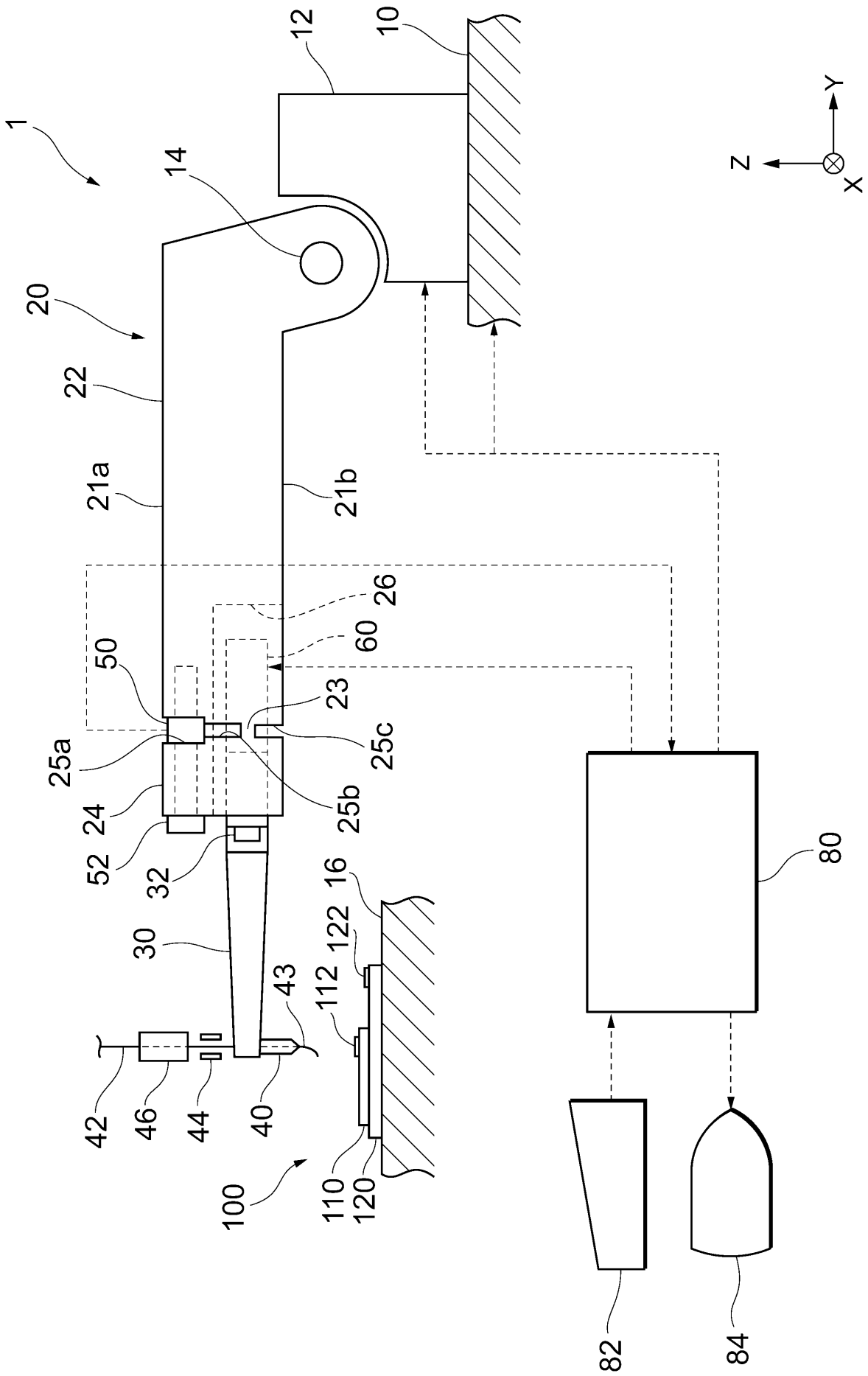
1
10
12
14
20
22
21a
21b
26
60
50
23
25c
25a
25b
24
52
32
30
16
122
112
43
42
46
44
40
100
110
120
80
82
84
Y
Z
X

FIG. 1

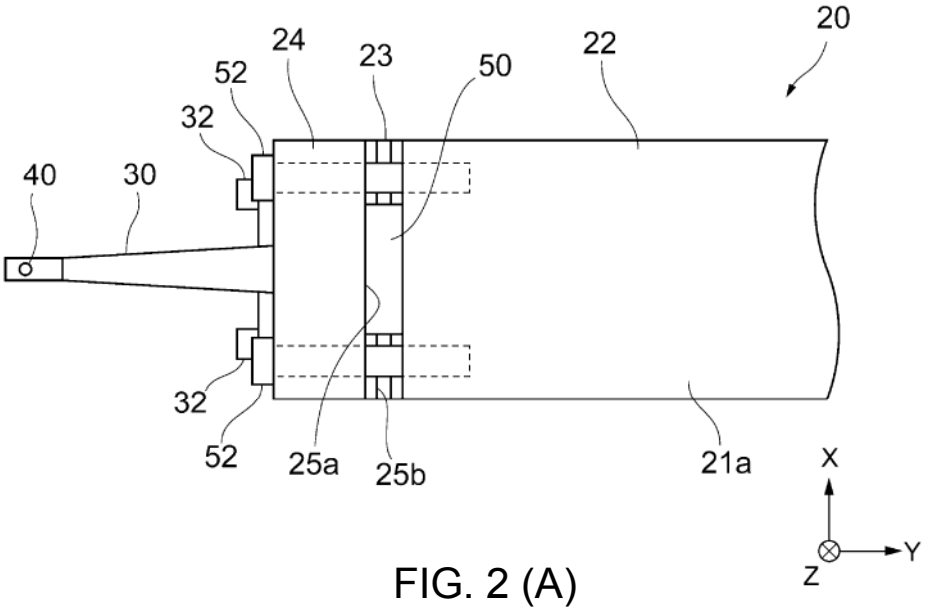
20
24
23
50
22
52
32
40
30
32
52
25a
25b
21a
X
Y
Z

FIG. 2 (A)

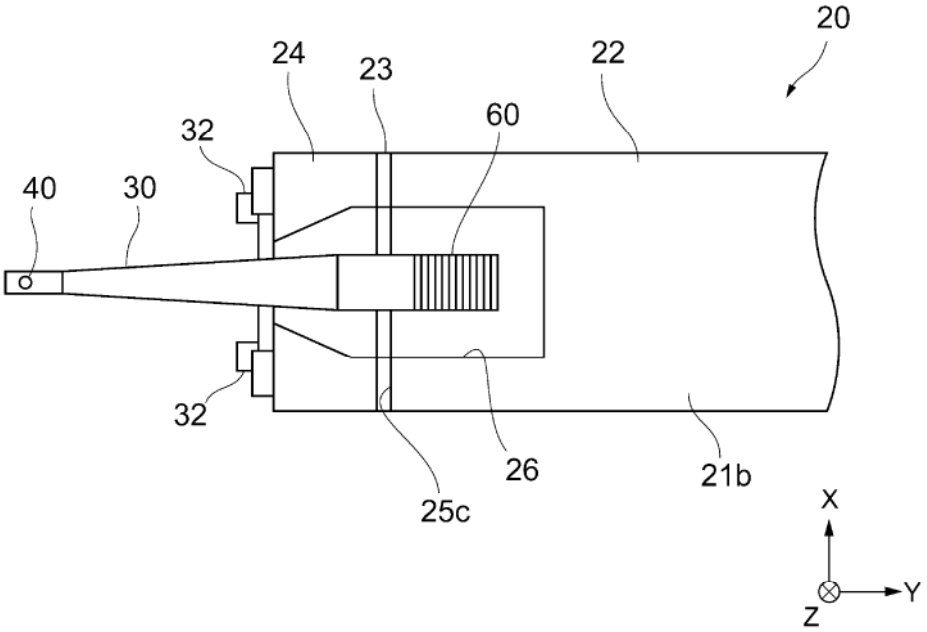
20
24
23
22
60
32
40
30
32
26
21b
25c
X
Y
Z

FIG. 2 (B)

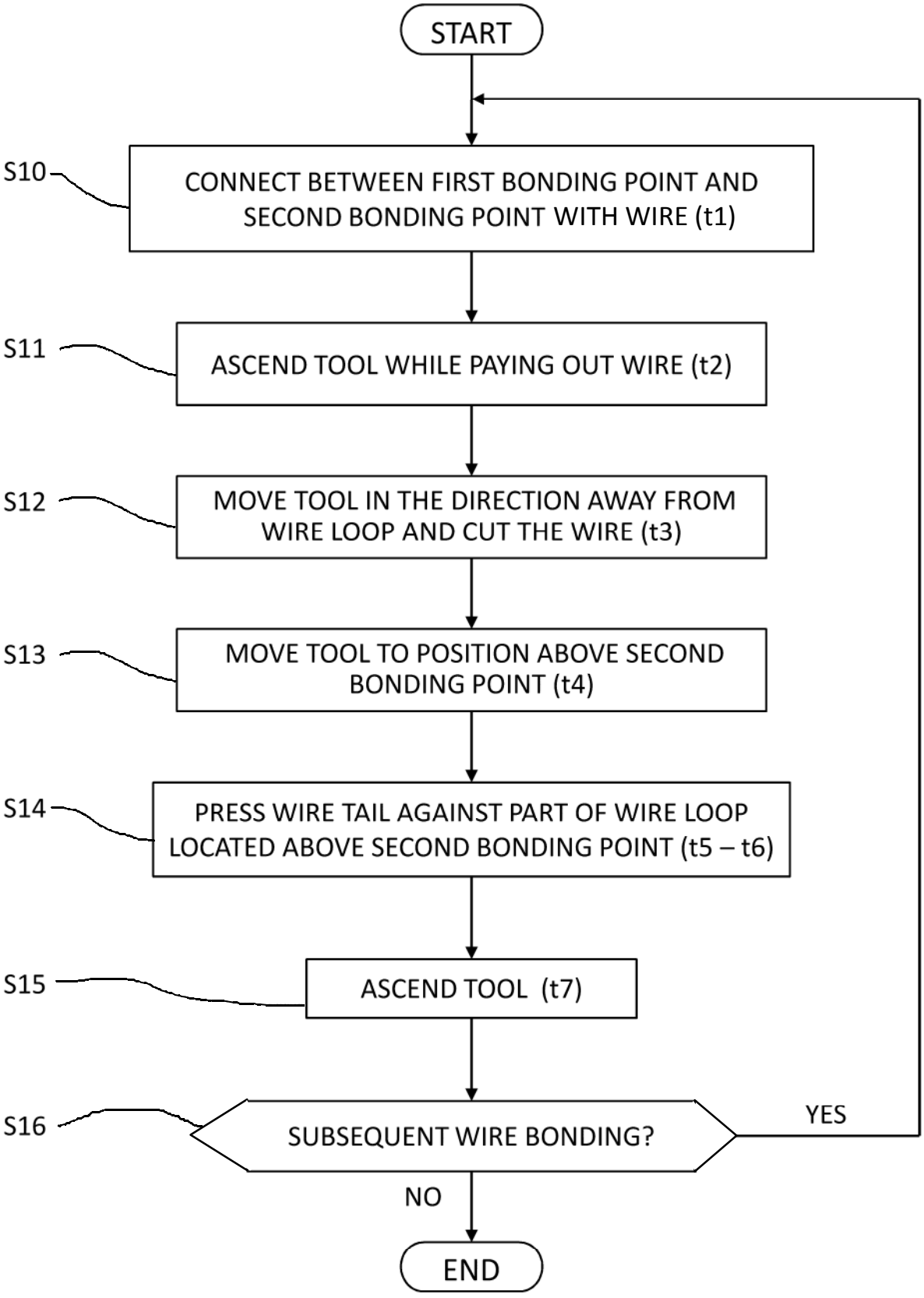
START
S10
CONNECT BETWEEN FIRST BONDING POINT AND SECOND BONDING POINT WITH WIRE (t1)
S11
ASCEND TOOL WHILE PAYING OUT WIRE (t2)
S12
MOVE TOOL IN THE DIRECTION AWAY FROM WIRE LOOP AND CUT THE WIRE (t3)
S13
MOVE TOOL TO POSITION ABOVE SECOND BONDING POINT (t4)
S14
PRESS WIRE TAIL AGAINST PART OF WIRE LOOP LOCATED ABOVE SECOND BONDING POINT (t5 – t6)
S15
ASCEND TOOL (t7)
S16
SUBSEQUENT WIRE BONDING?
YES
NO
END

FIG. 3

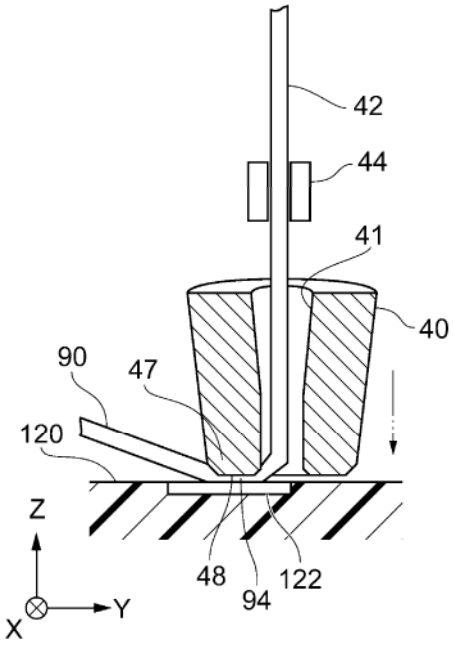

FIG. 4 (A)

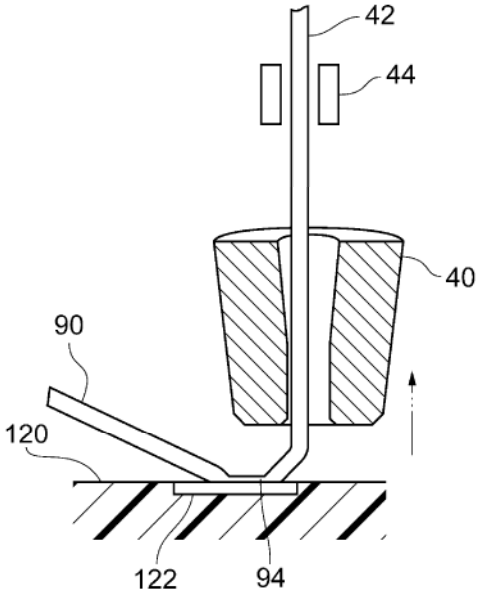

FIG. 4 (B)

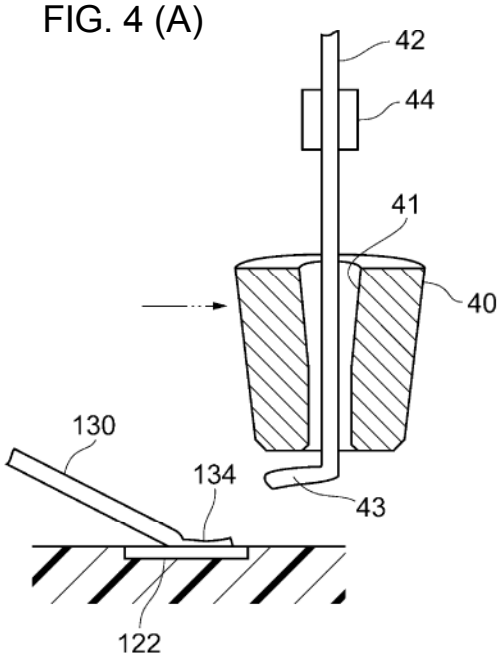

FIG. 4 (C)

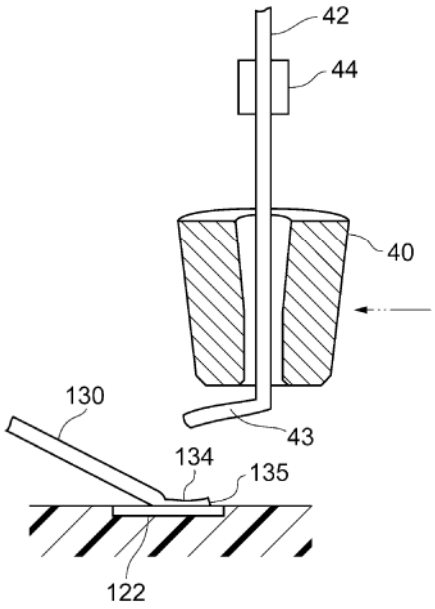

FIG. 5 (A)

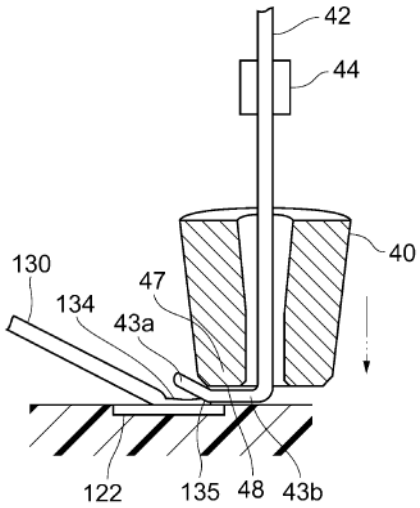

FIG. 5 (B)

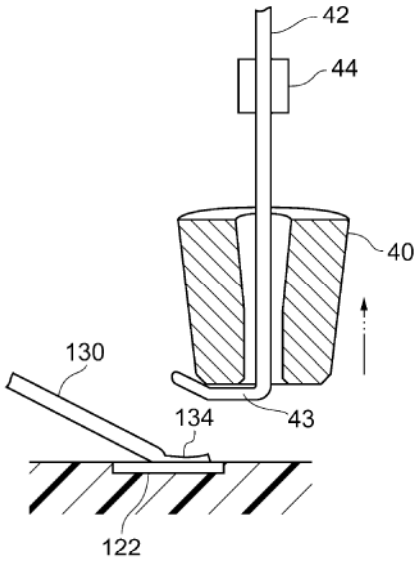

FIG. 5 (C)

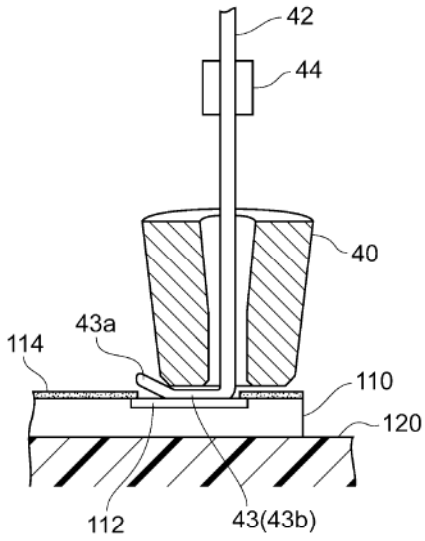

FIG. 5 (D)

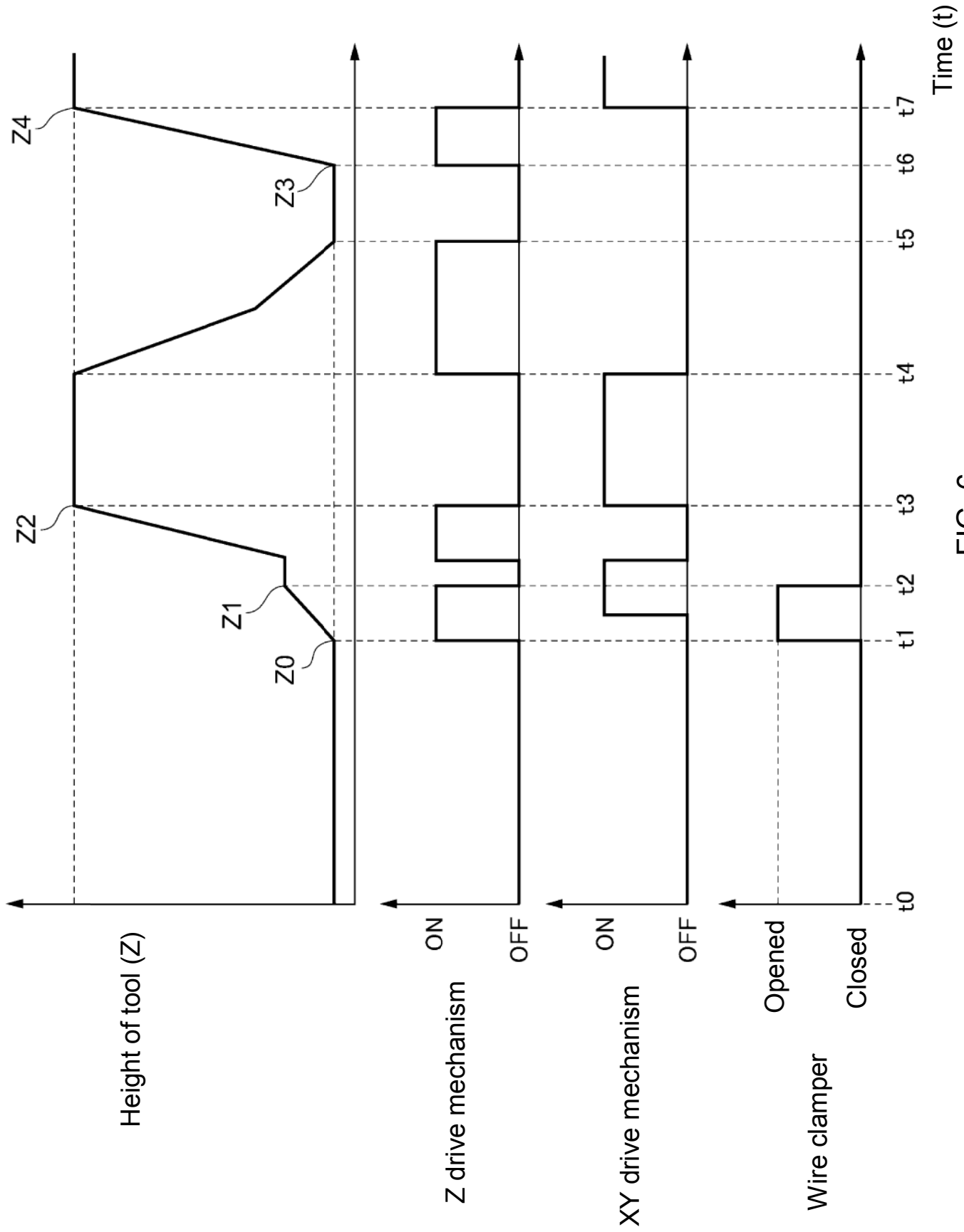
Height of tool (Z)
Z4
Z3
Z2
Z1
Z0
Z drive mechanism
ON
OFF
XY drive mechanism
ON
OFF
Wire clamper
Opened
Closed
t0
t1
t2
t3
t4
t5
t6
t7
Time (t)

FIG. 6

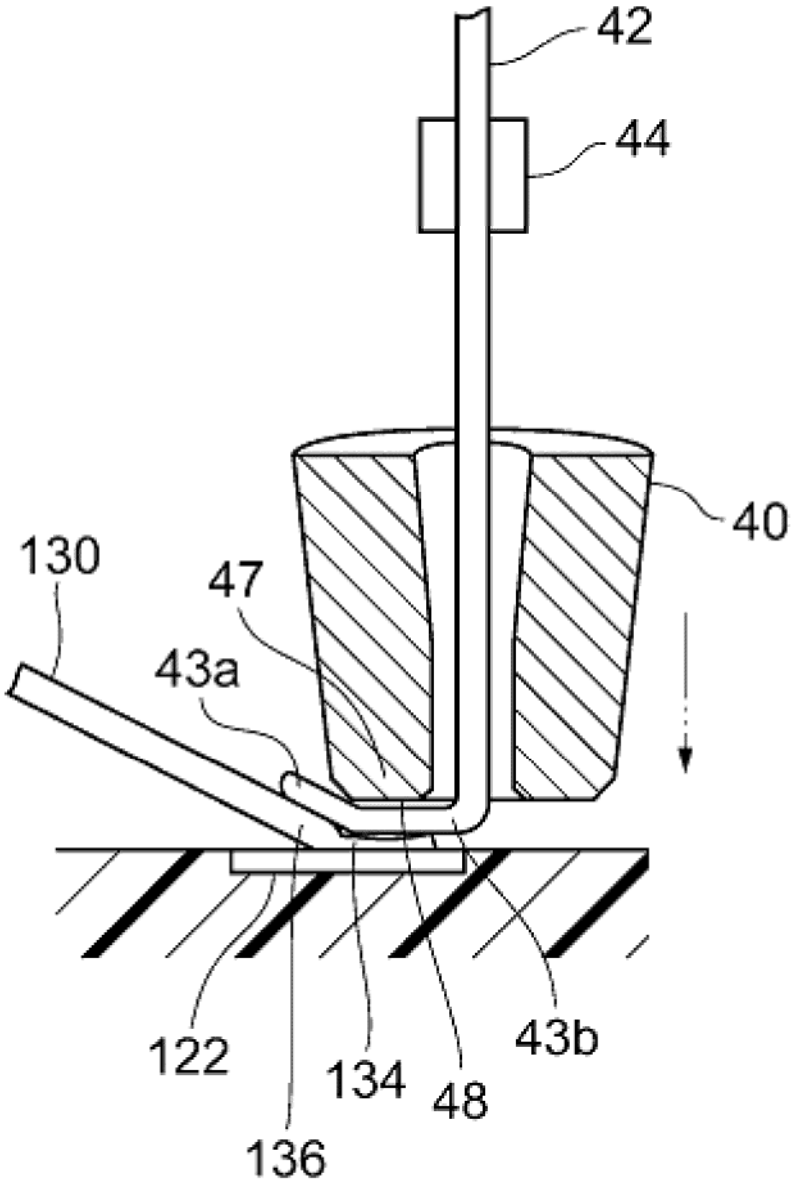

FIG. 7