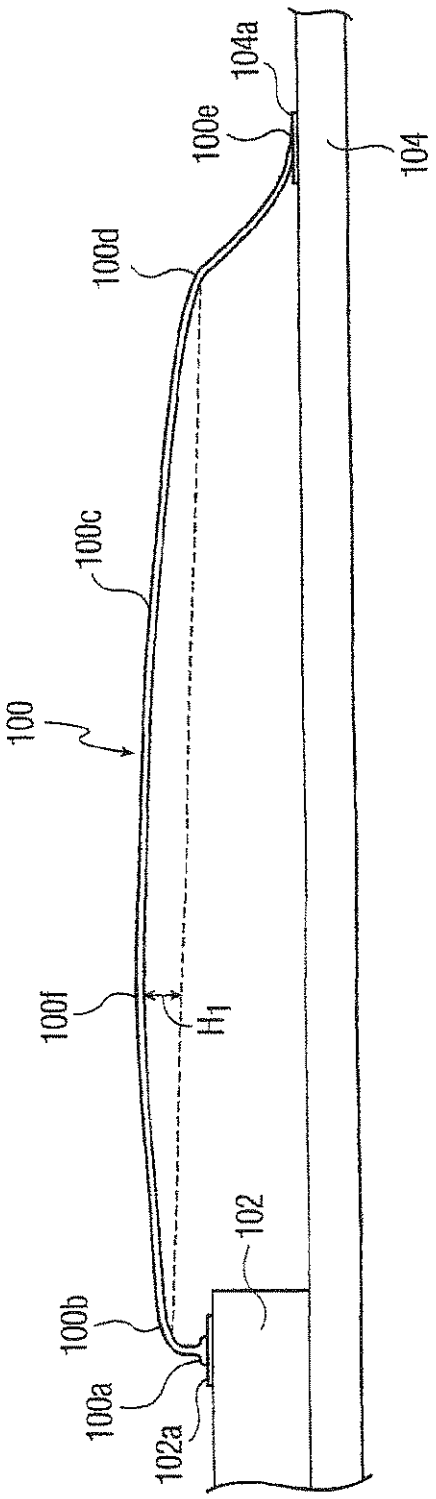


FIG. 1A

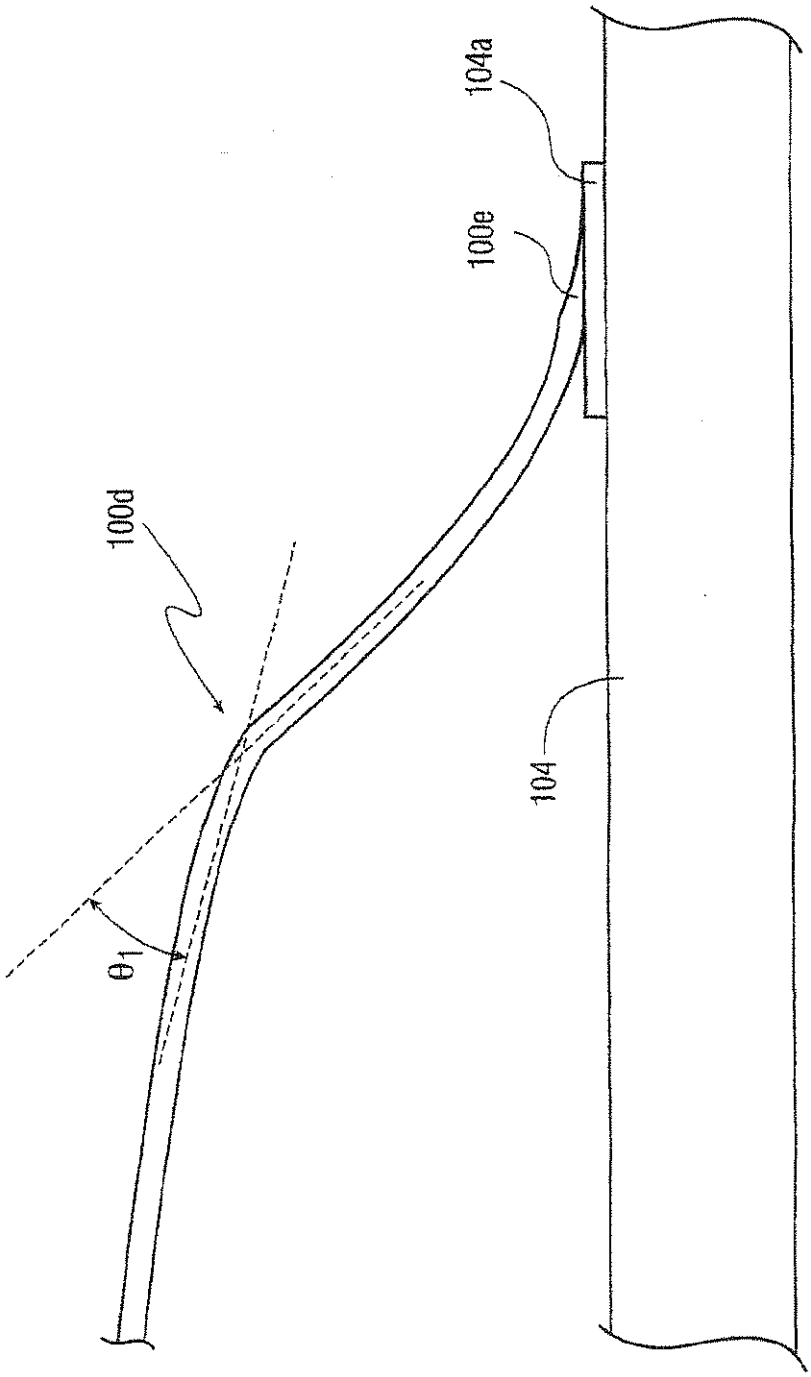


FIG. 1B

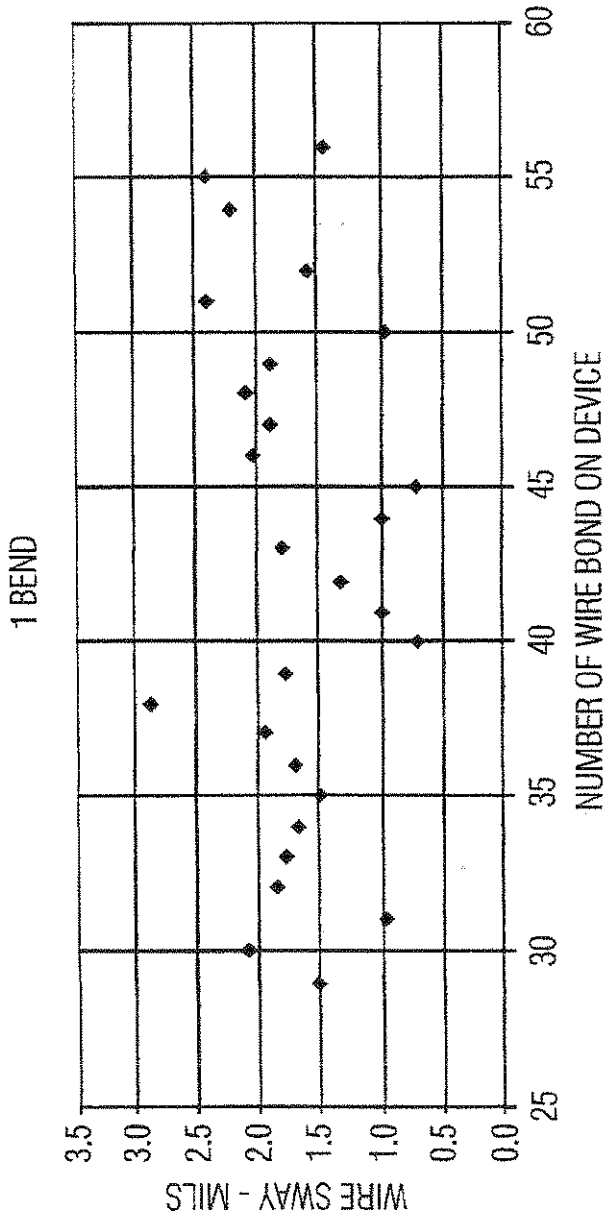

1 BEND
WIRE SWAY - MILS
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
25
30
35
40
45
50
55
60
NUMBER OF WIRE BOND ON DEVICE

FIG. 1C

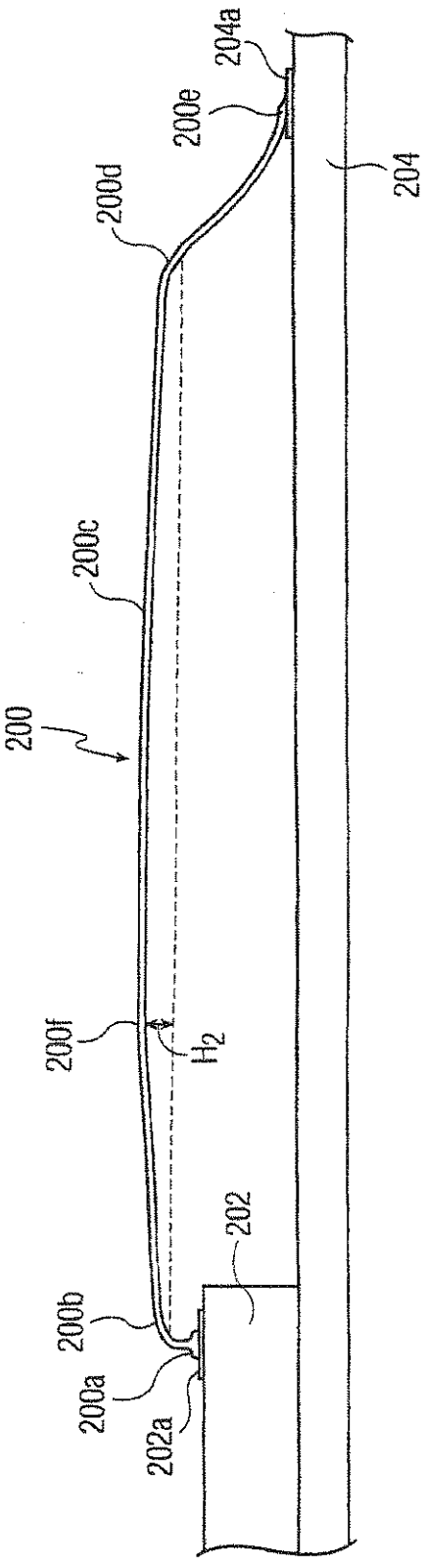


FIG. 2A

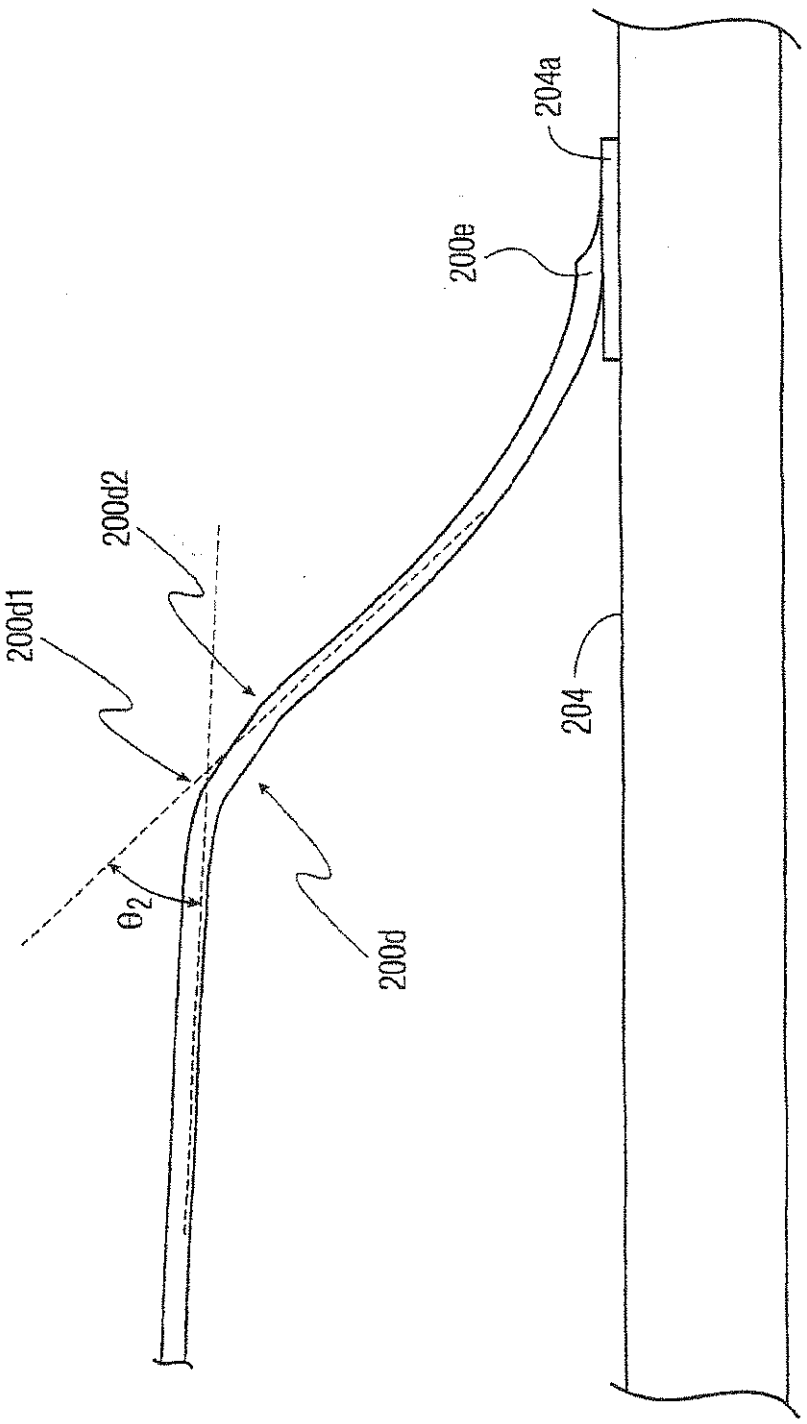


FIG. 2B

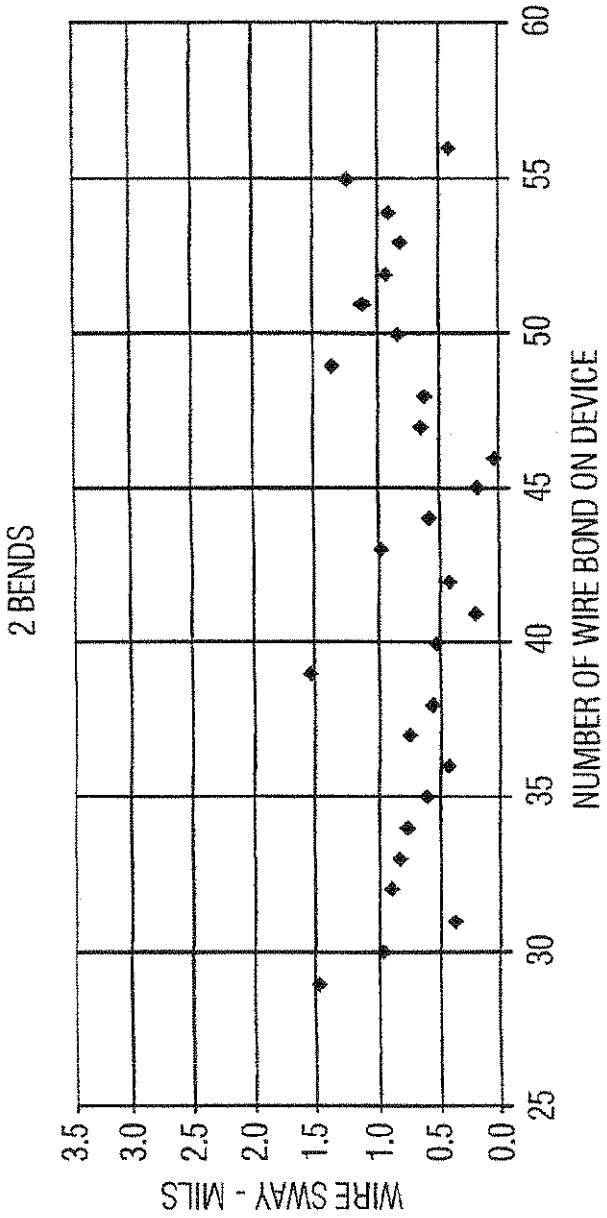

2 BENDS
WIRE SWAY - MILS
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
25
30
35
40
45
50
55
60
NUMBER OF WIRE BOND ON DEVICE

FIG. 2C

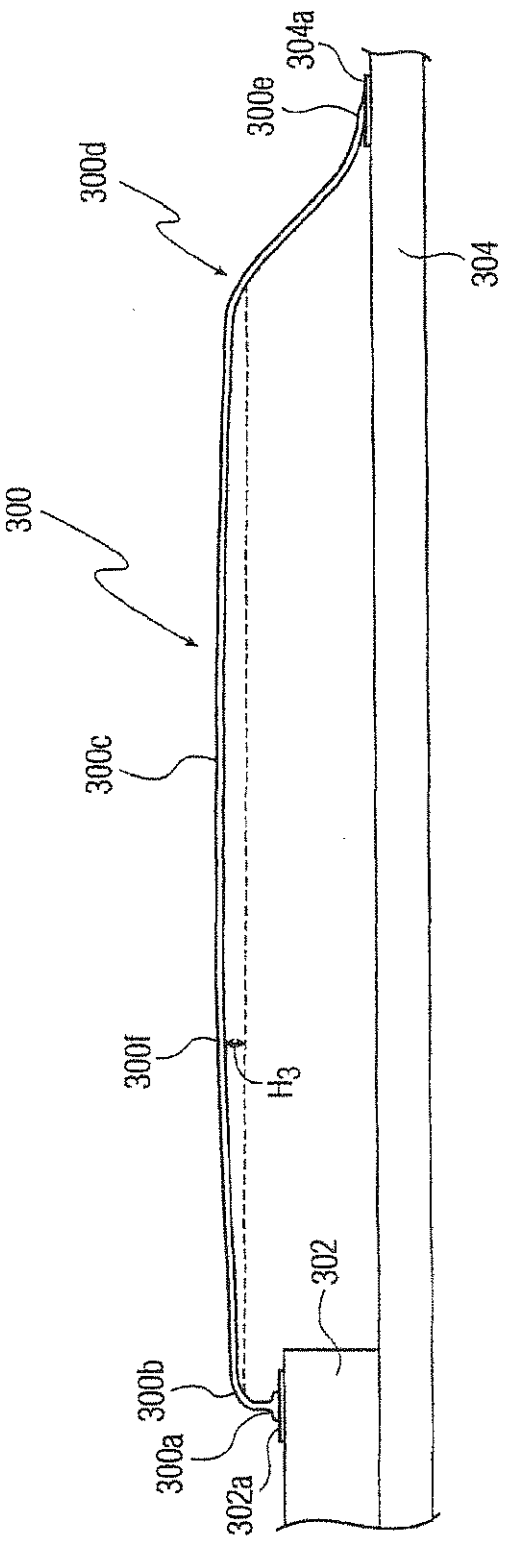


FIG. 3A

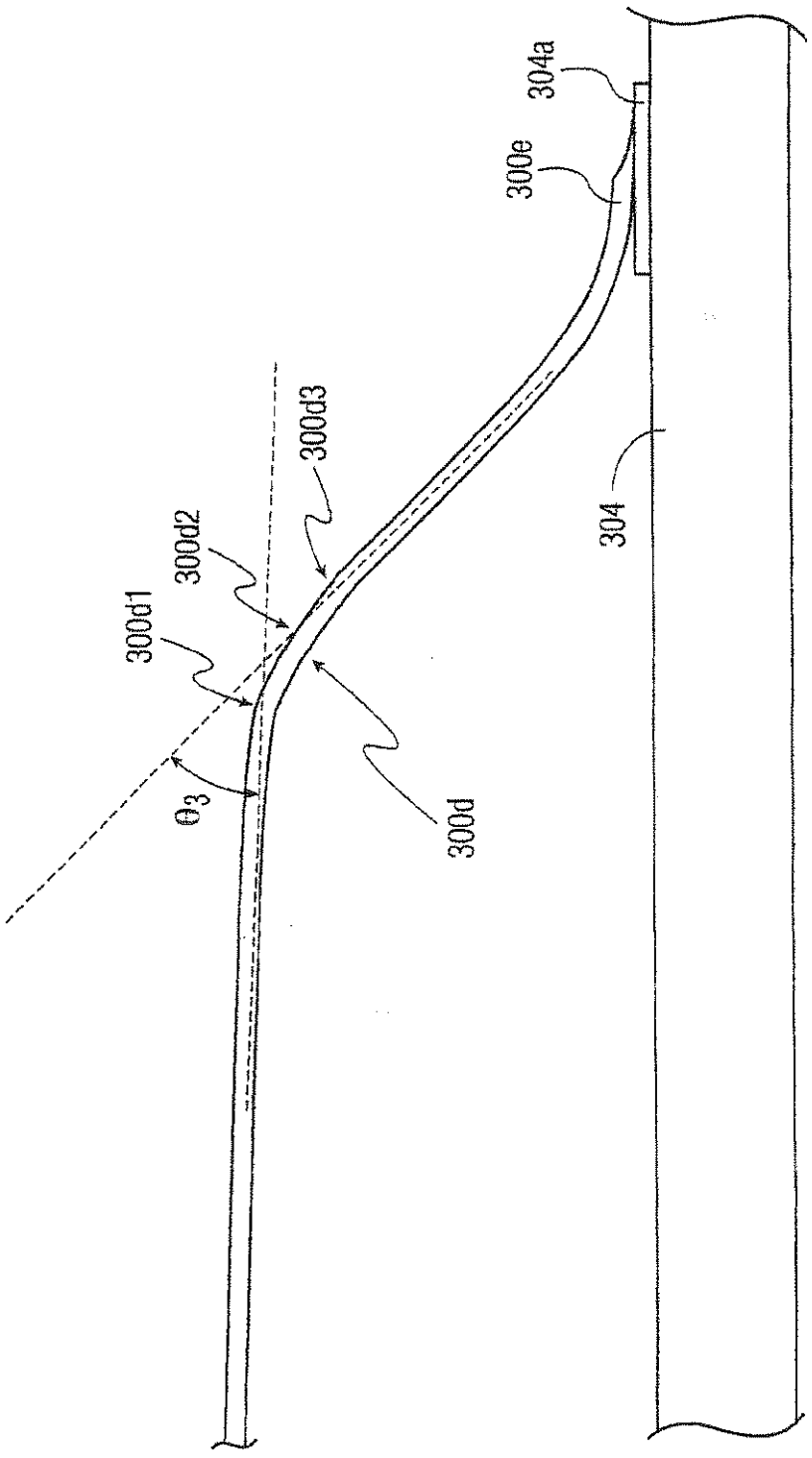


FIG. 3B

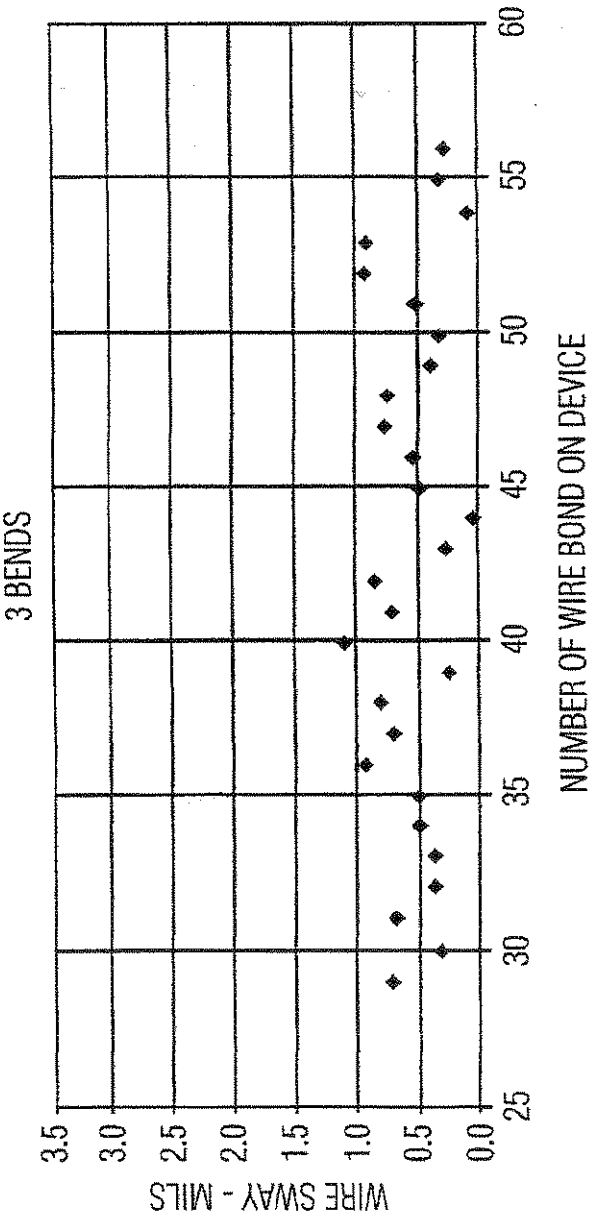

3 BENDS
WIRE SWAY - MILS
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
25
30
35
40
45
50
55
60
NUMBER OF WIRE BOND ON DEVICE

FIG. 3C

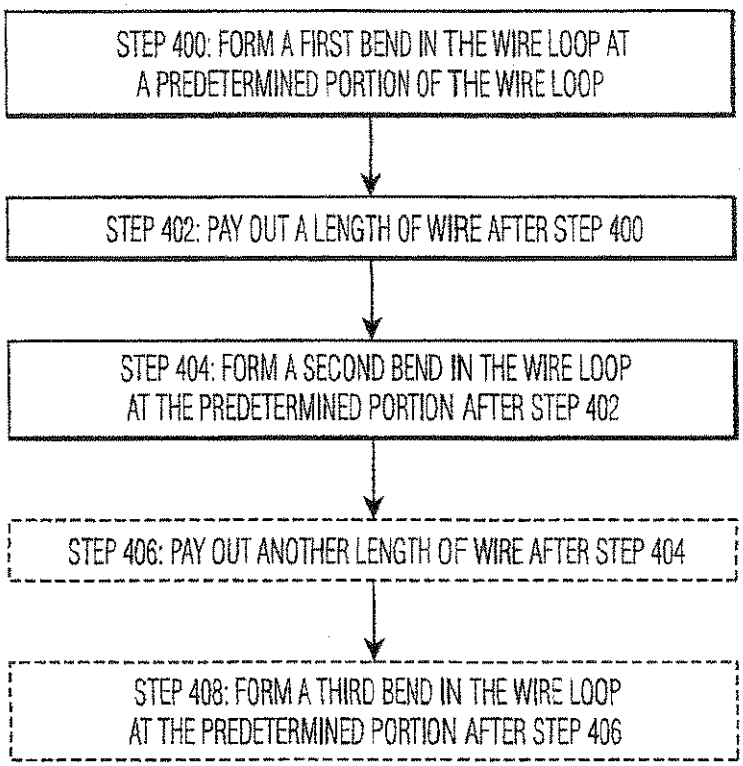

STEP 400: FORM A FIRST BEND IN THE WIRE LOOP AT A PREDETERMINED PORTION OF THE WIRE LOOP
STEP 402: PAY OUT A LENGTH OF WIRE AFTER STEP 400
STEP 404: FORM A SECOND BEND IN THE WIRE LOOP AT THE PREDETERMINED PORTION AFTER STEP 402
STEP 406: PAY OUT ANOTHER LENGTH OF WIRE AFTER STEP 404
STEP 408: FORM A THIRD BEND IN THE WIRE LOOP AT THE PREDETERMINED PORTION AFTER STEP 406

FIG. 4

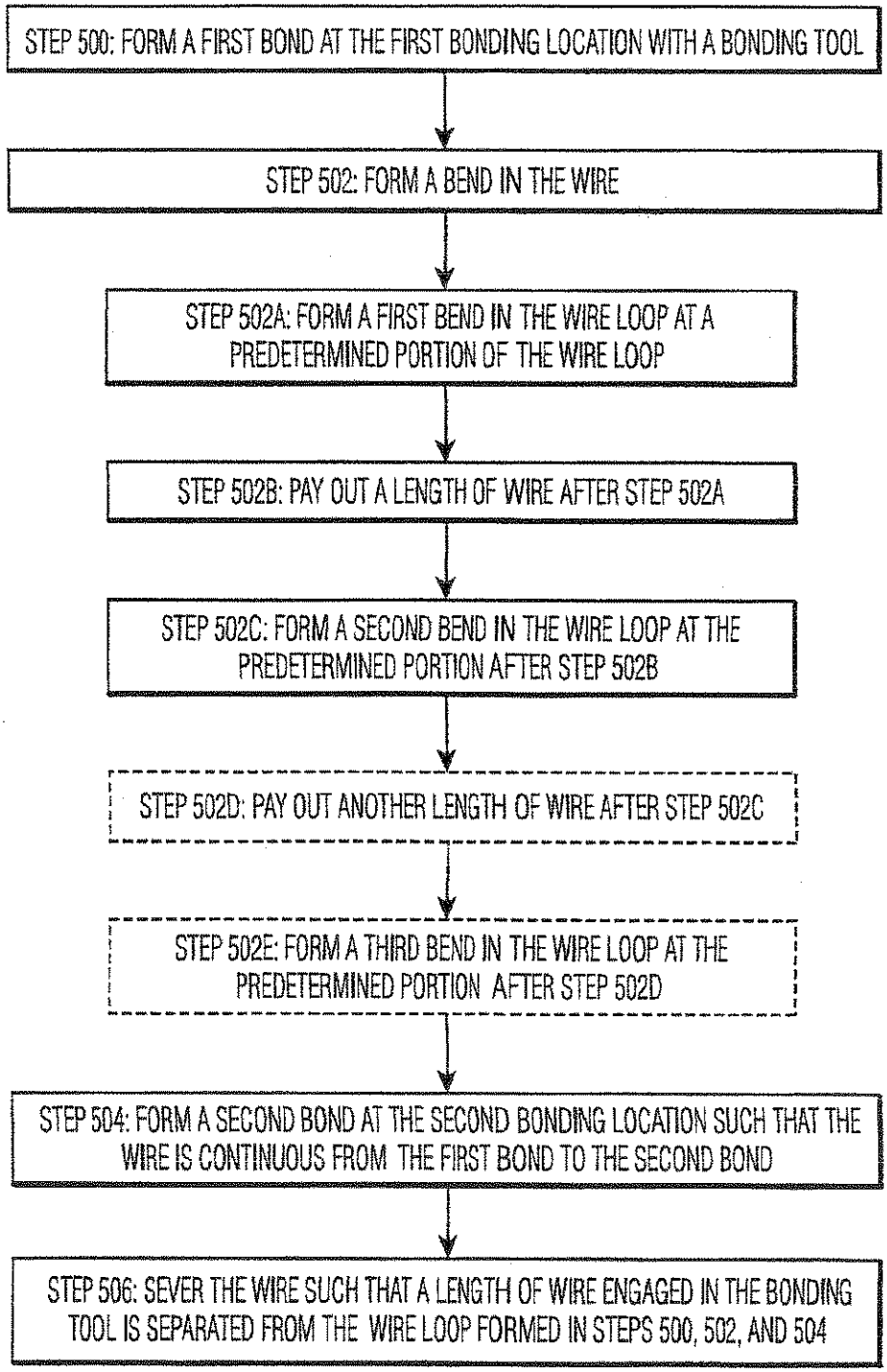

STEP 500: FORM A FIRST BOND AT THE FIRST BONDING LOCATION WITH A BONDING TOOL
STEP 502: FORM A BEND IN THE WIRE
STEP 502A: FORM A FIRST BEND IN THE WIRE LOOP AT A PREDETERMINED PORTION OF THE WIRE LOOP
STEP 502B: PAY OUT A LENGTH OF WIRE AFTER STEP 502A
STEP 502C: FORM A SECOND BEND IN THE WIRE LOOP AT THE PREDETERMINED PORTION AFTER STEP 502B
STEP 502D: PAY OUT ANOTHER LENGTH OF WIRE AFTER STEP 502C
STEP 502E: FORM A THIRD BEND IN THE WIRE LOOP AT THE PREDETERMINED PORTION AFTER STEP 502D
STEP 504: FORM A SECOND BOND AT THE SECOND BONDING LOCATION SUCH THAT THE WIRE IS CONTINUOUS FROM THE FIRST BOND TO THE SECOND BOND
STEP 506: SEVER THE WIRE SUCH THAT A LENGTH OF WIRE ENGAGED IN THE BONDING TOOL IS SEPARATED FROM THE WIRE LOOP FORMED IN STEPS 500, 502, AND 504

FIG. 5