FIG.1

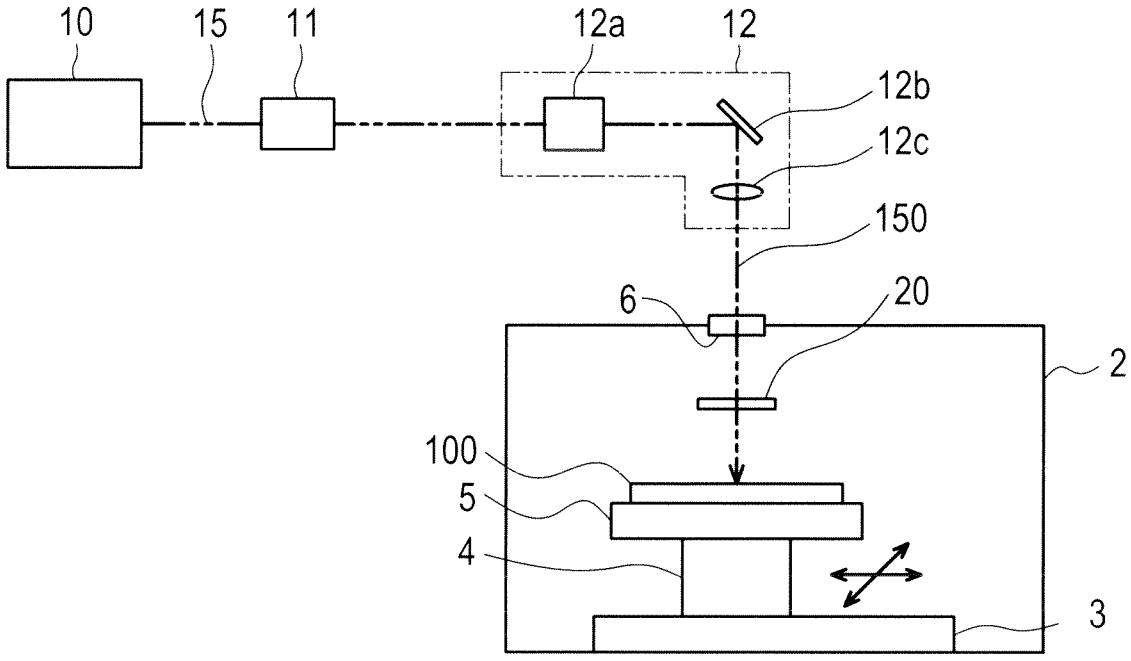


FIG.2

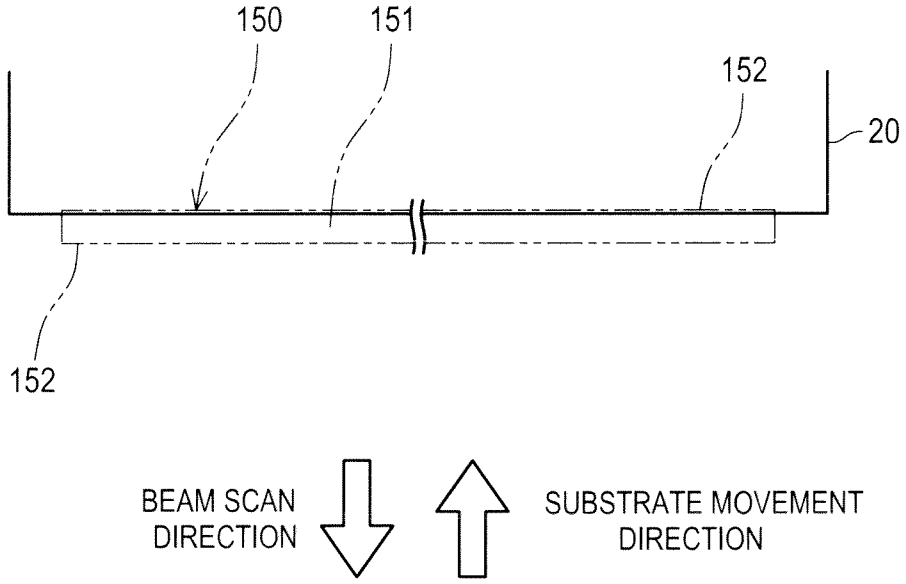

150
151
152
20
152
BEAM SCAN DIRECTION
SUBSTRATE MOVEMENT DIRECTION

FIG.3

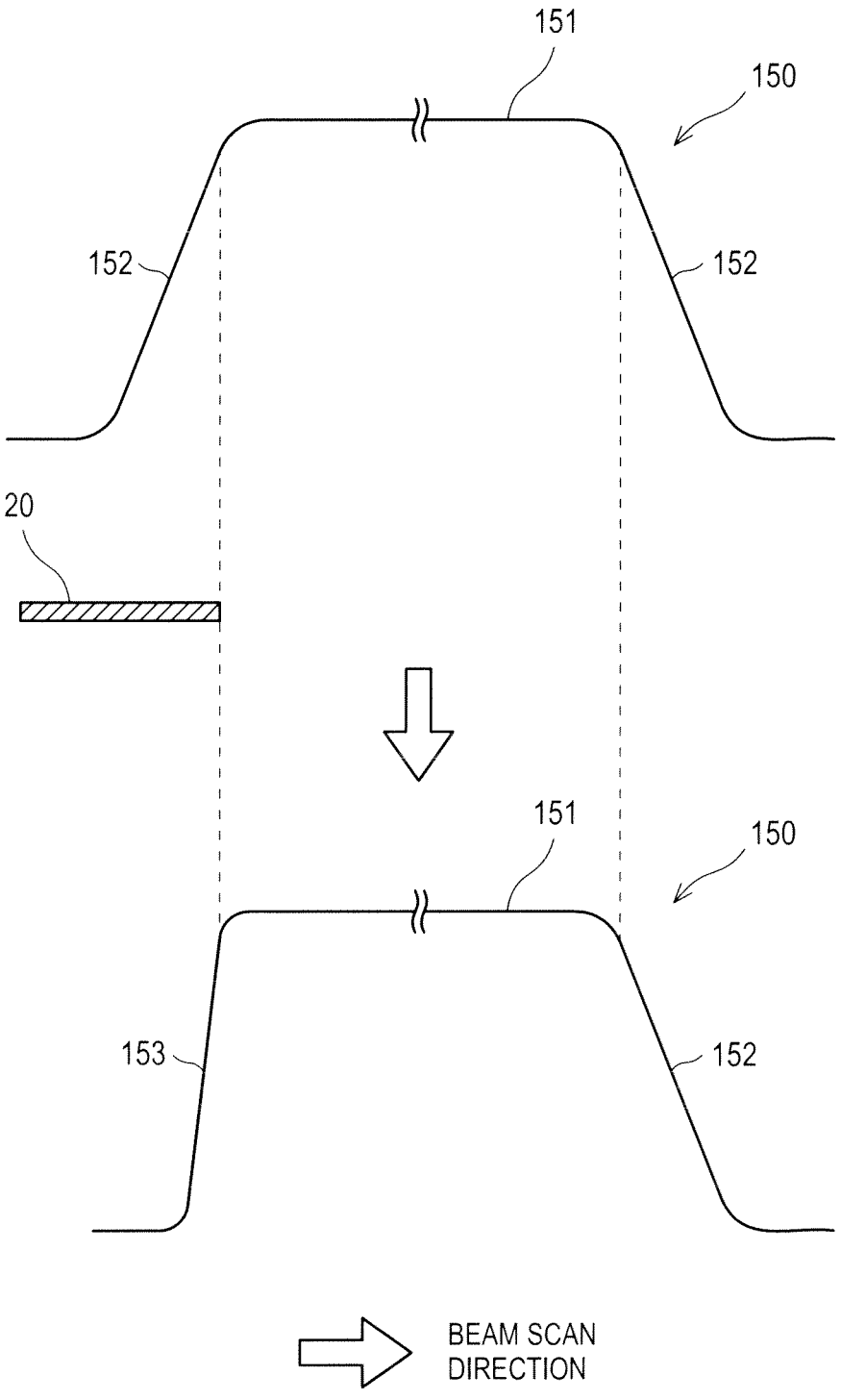


FIG.4

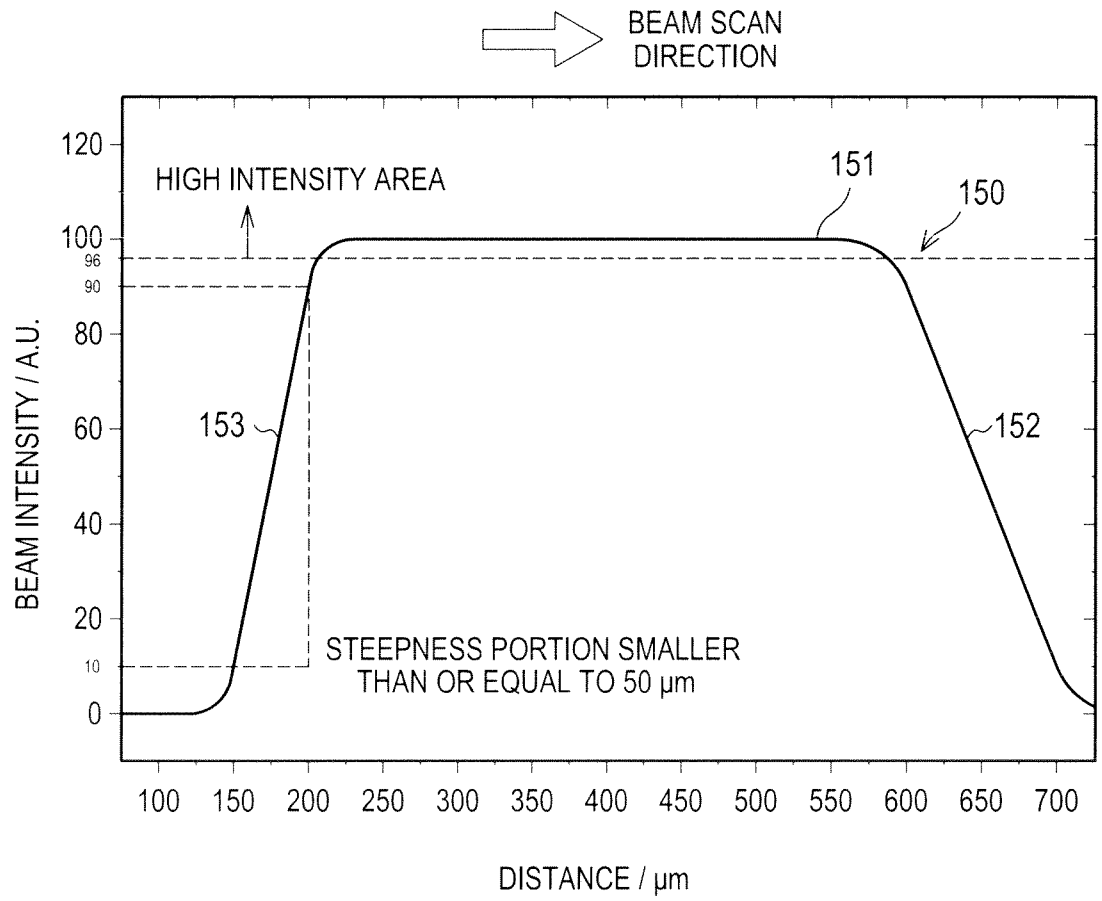

BEAM SCAN DIRECTION
HIGH INTENSITY AREA
151
150
153
152
STEEPNESS PORTION SMALLER THAN OR EQUAL TO 50 μm
BEAM INTENSITY / A.U.
120
100
96
90
80
60
40
20
10
0
100 150 200 250 300 350 400 450 500 550 600 650 700
DISTANCE / μm

FIG.5

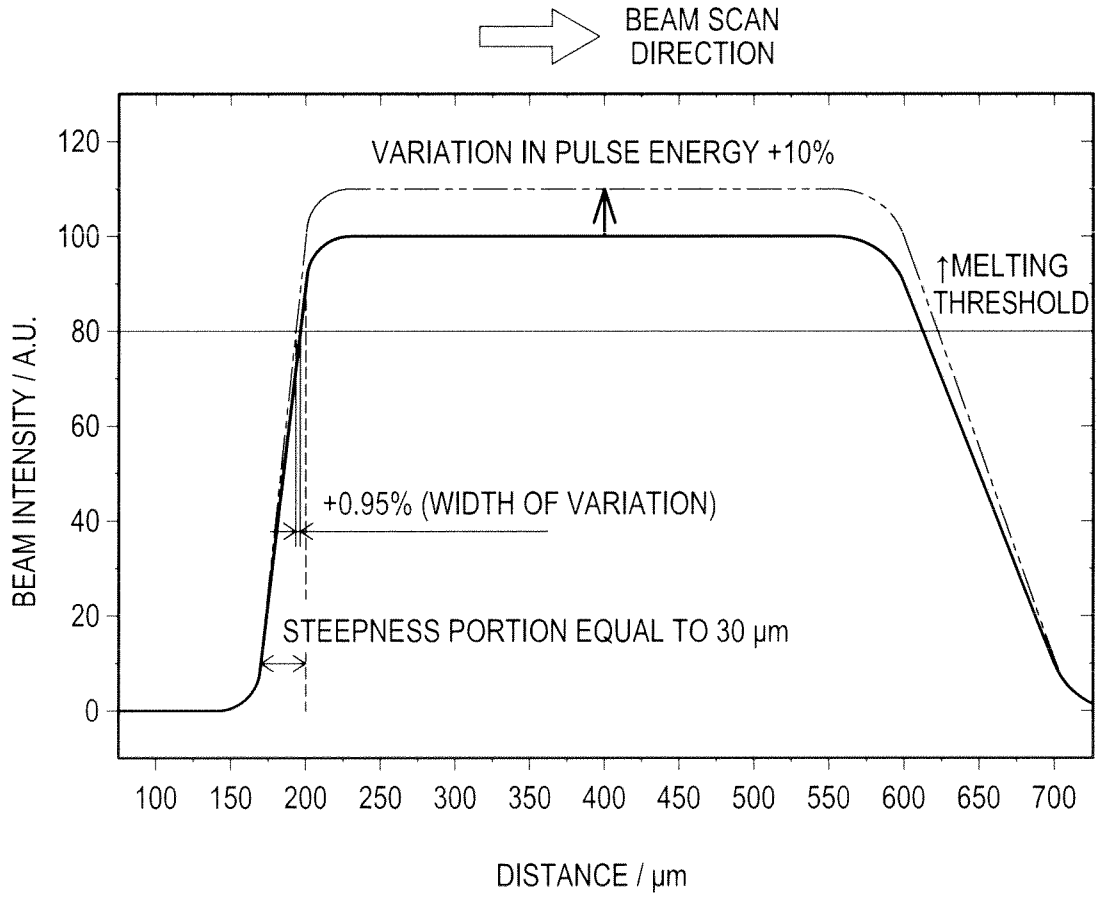

BEAM SCAN DIRECTION
VARIATION IN PULSE ENERGY +10%
↑MELTING THRESHOLD
+0.95% (WIDTH OF VARIATION)
STEEPNESS PORTION EQUAL TO 30 μm
BEAM INTENSITY / A.U.
DISTANCE / μm
0
20
40
60
80
100
120
100
150
200
250
300
350
400
450
500
550
600
650
700

FIG.6

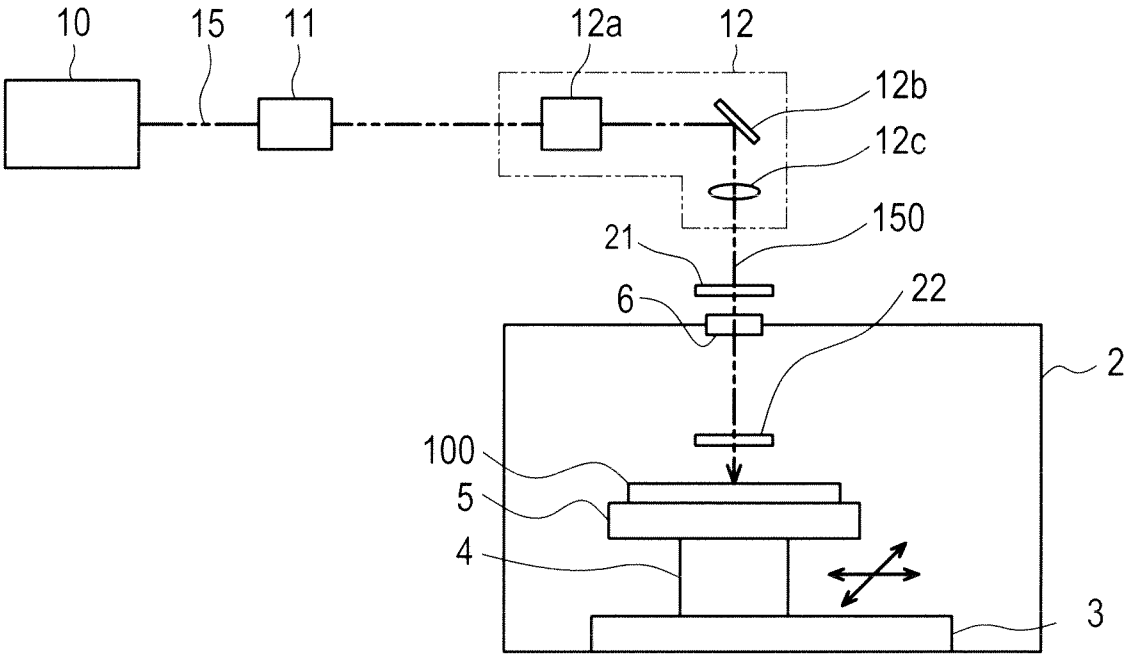
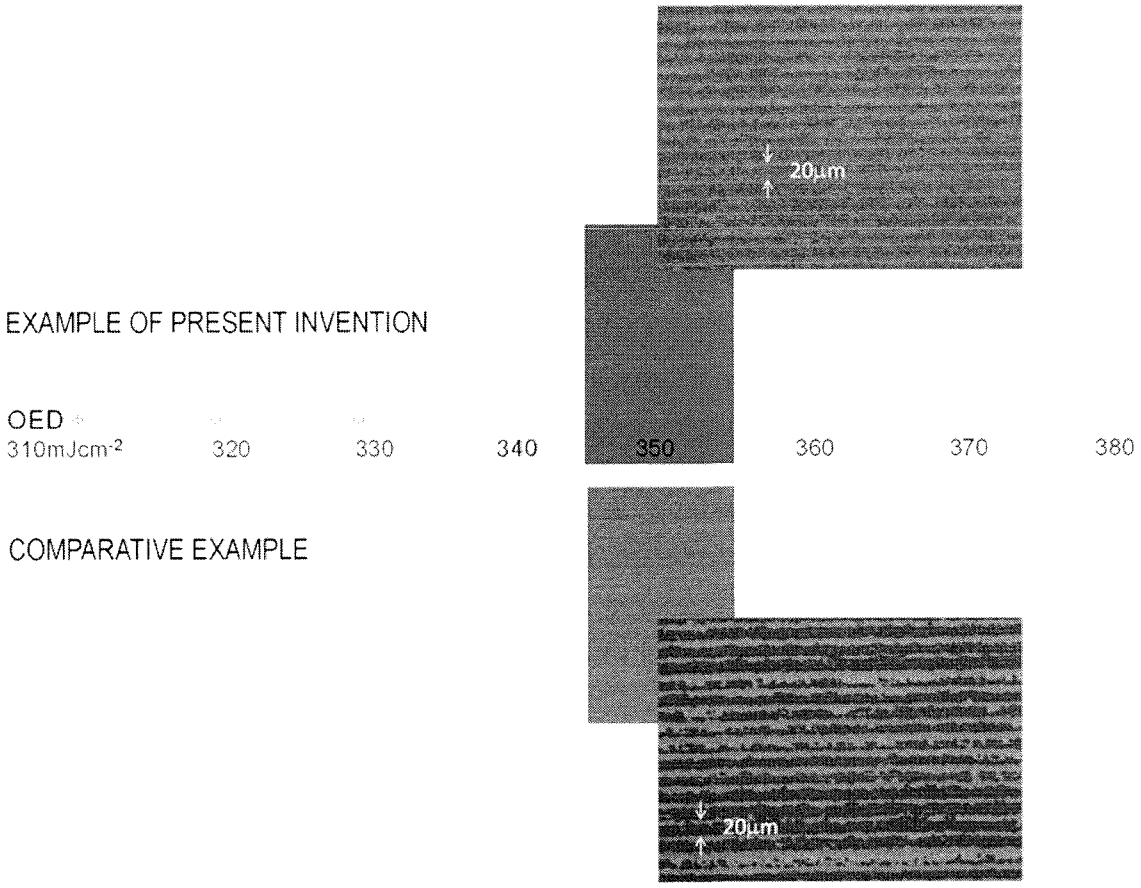


FIG.7



PHOTOGRAPH IN PLACE OF DRAWING

FIG.8

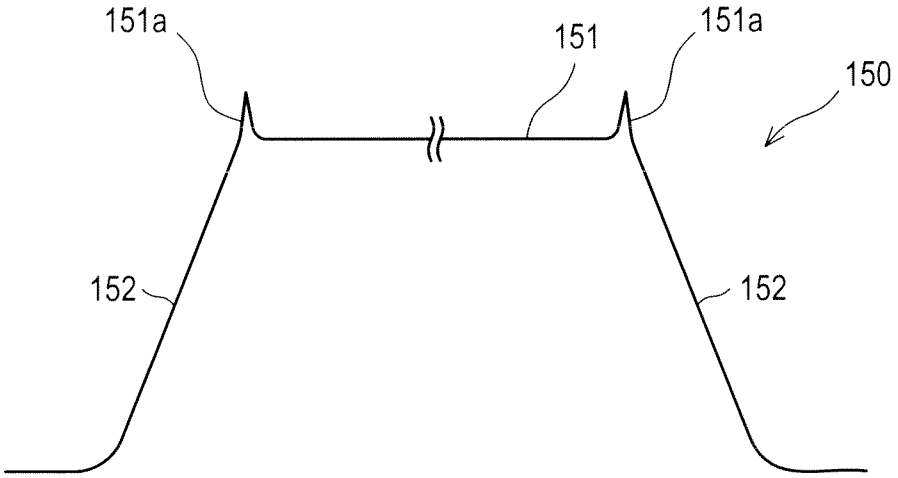
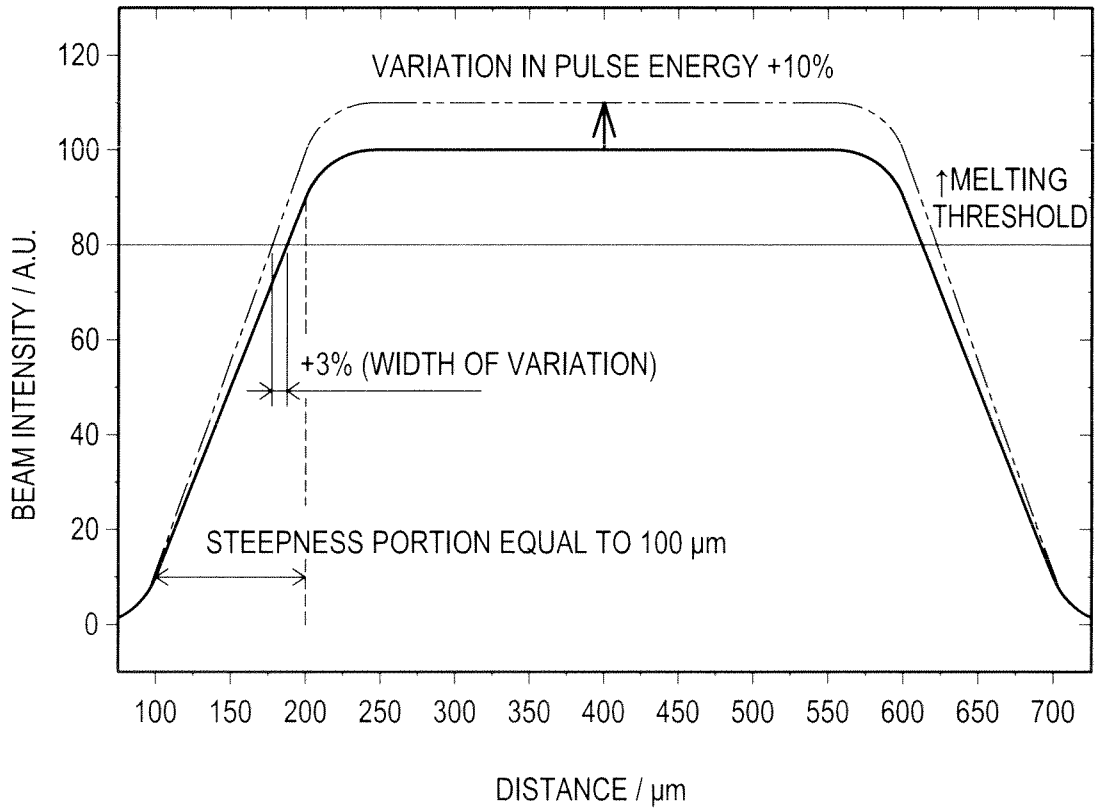


FIG.9


VARIATION IN PULSE ENERGY +10%
↑MELTING THRESHOLD
+3% (WIDTH OF VARIATION)
STEEPNESS PORTION EQUAL TO 100 μm
BEAM INTENSITY / A.U.
DISTANCE / μm
120
100
80
60
40
20
0
100
150
200
250
300
350
400
450
500
550
600
650
700