FIG. 1

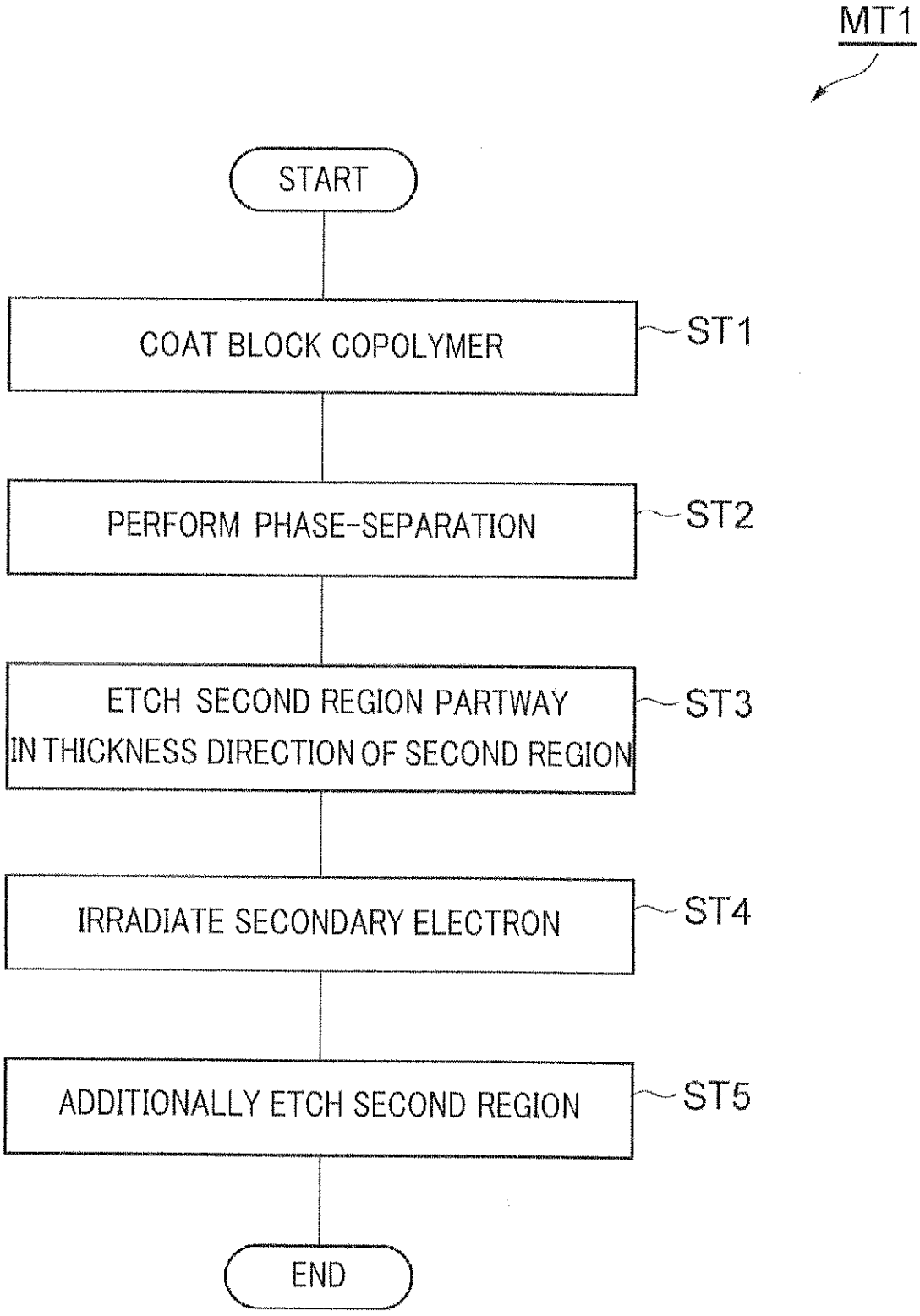
MT1
START
COAT BLOCK COPOLYMER
ST1
PERFORM PHASE-SEPARATION
ST2
ETCH SECOND REGION PARTWAY IN THICKNESS DIRECTION OF SECOND REGION
ST3
IRRADIATE SECONDARY ELECTRON
ST4
ADDITIONALLY ETCH SECOND REGION
ST5
END

FIG. 2A

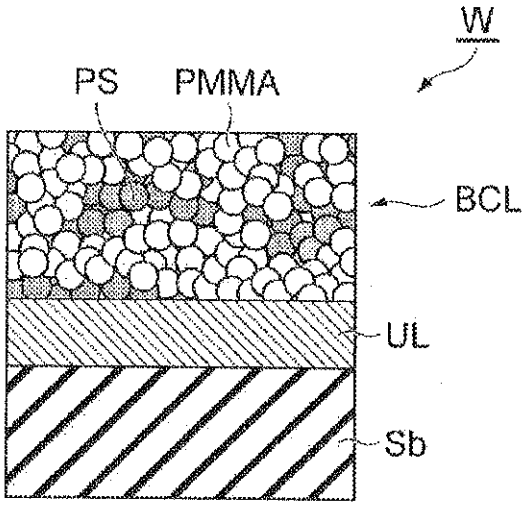

FIG. 2C

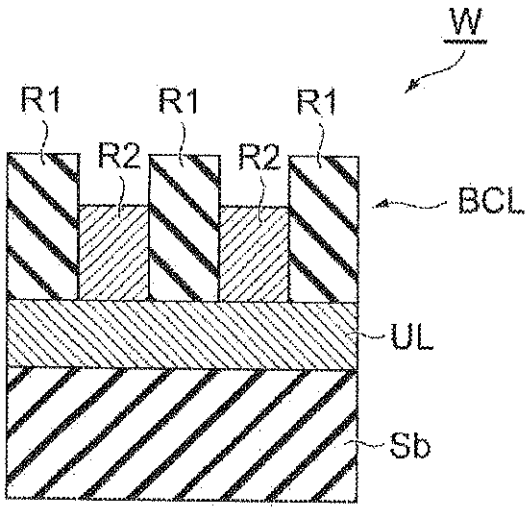

FIG. 2B

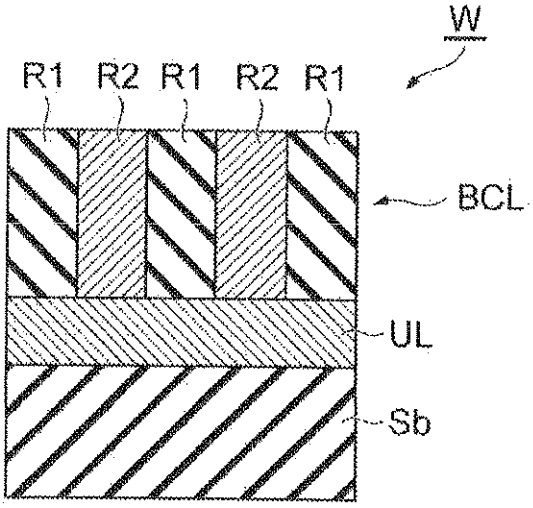

FIG. 2D

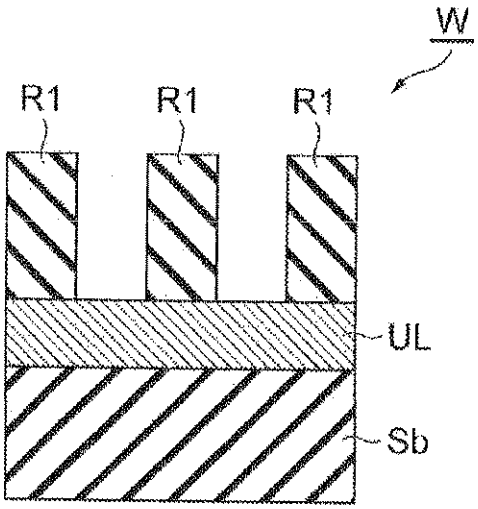

FIG. 3A

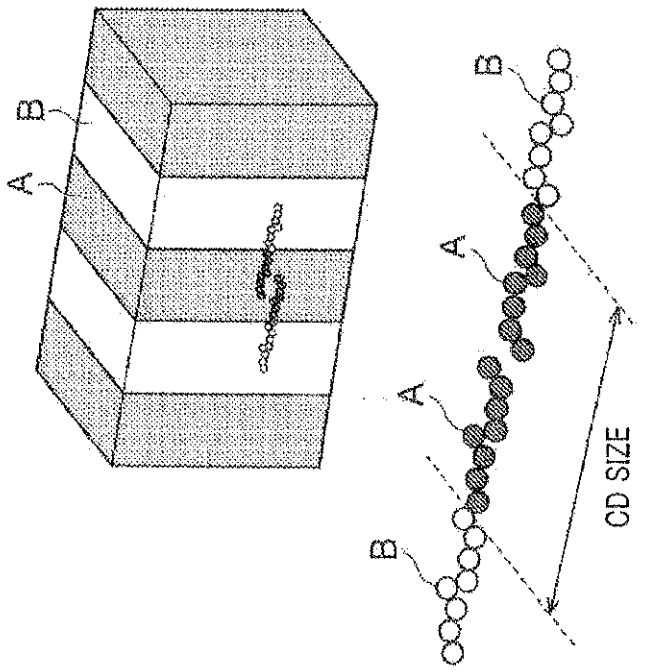

FIG. 3B

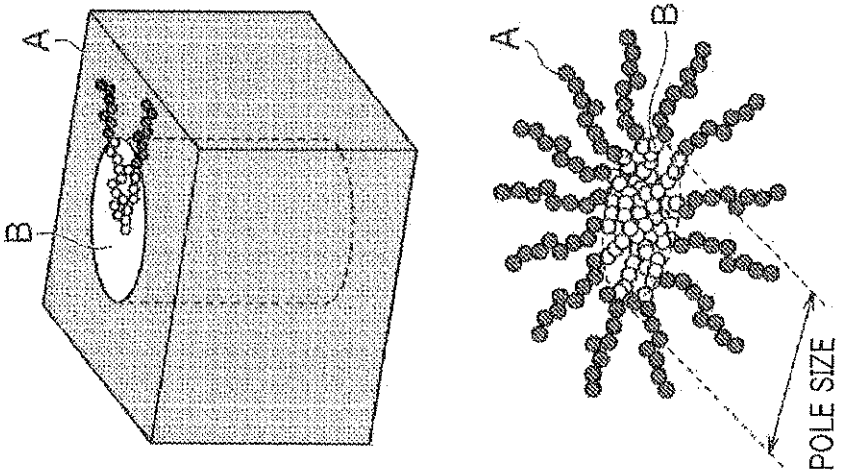

FIG. 4

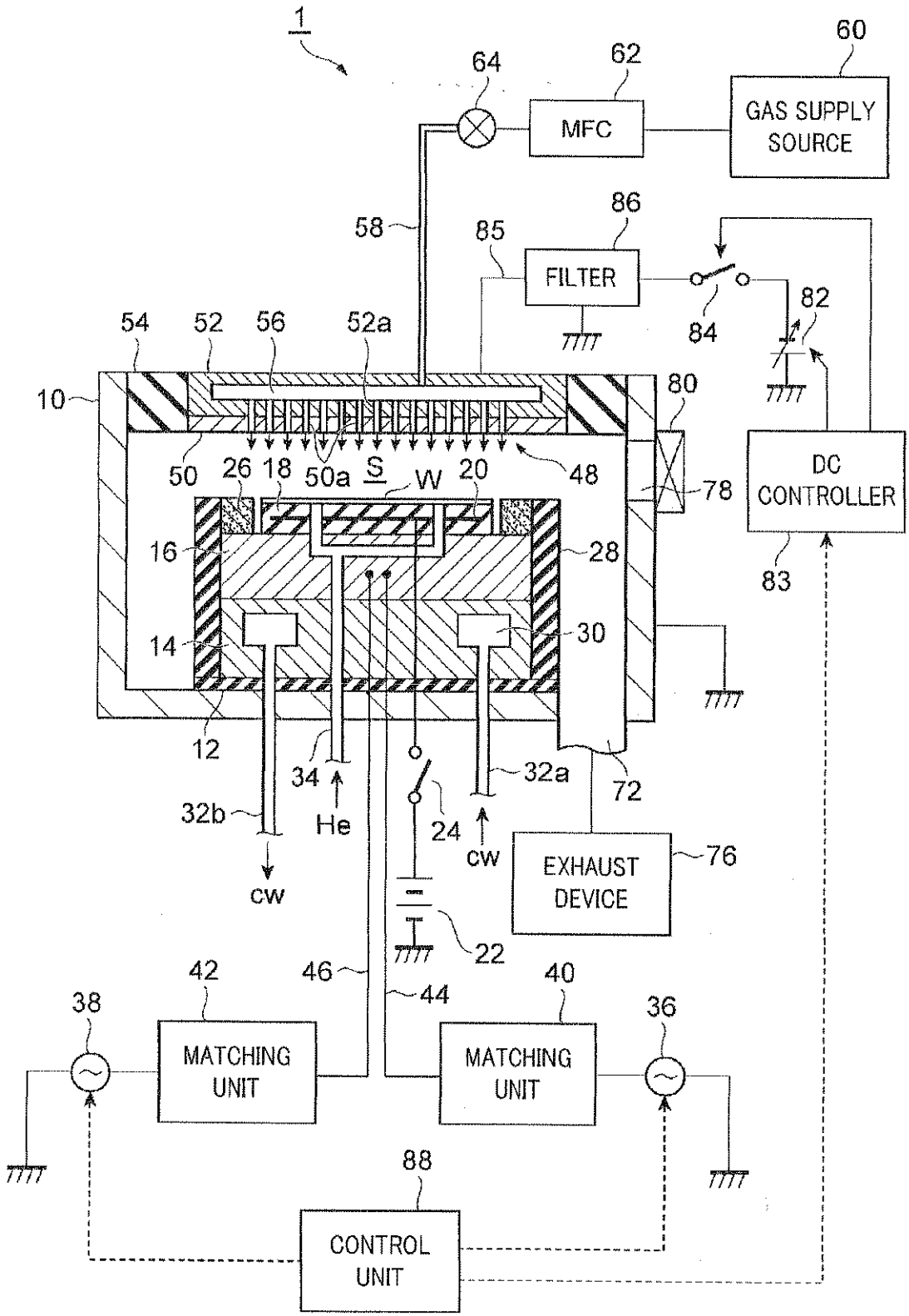
1
60
64
62
MFC
GAS SUPPLY SOURCE
58
85
86
FILTER
84
82
54
52
56
52a
10
80
50
26
18
50a
S
W
20
48
78
DC CONTROLLER
16
28
14
30
83
12
34
He
32a
72
32b
24
cw
cw
EXHAUST DEVICE
76
22
42
46
44
40
38
36
MATCHING UNIT
MATCHING UNIT
88
CONTROL UNIT

FIG. 5

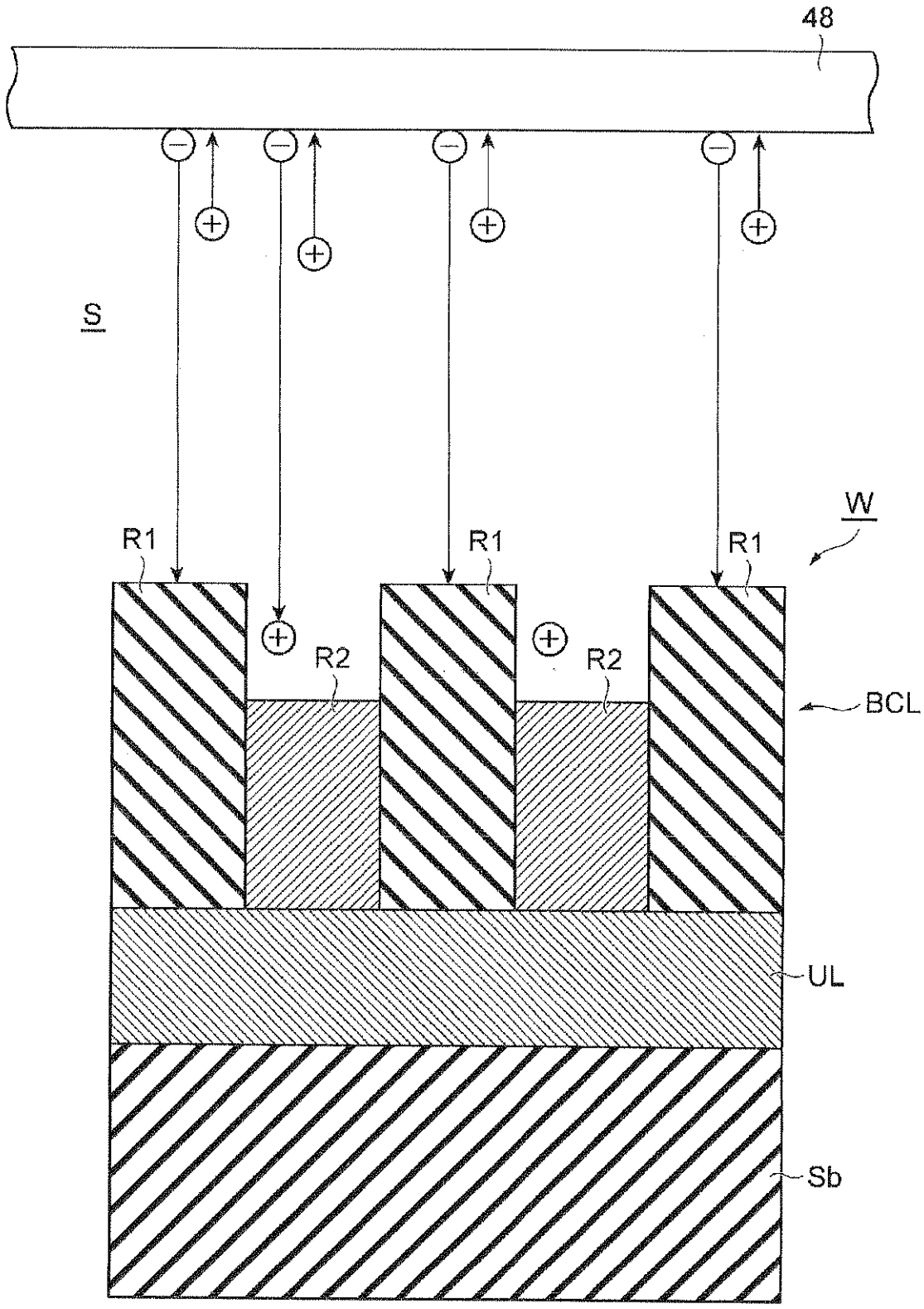

FIG. 6A

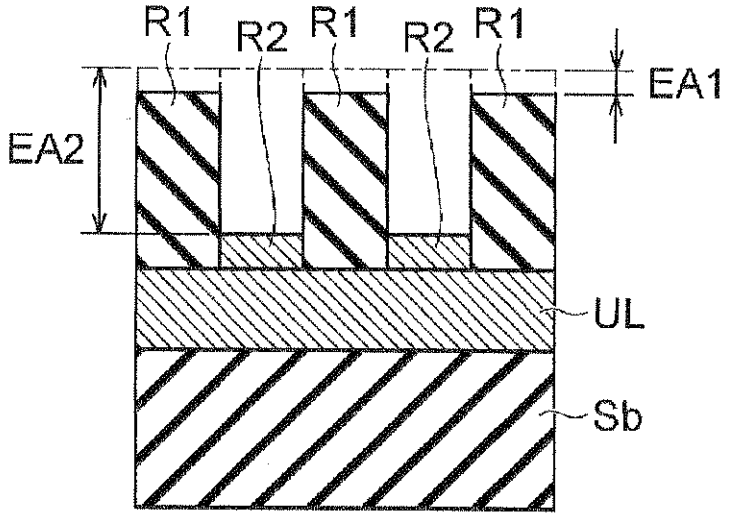
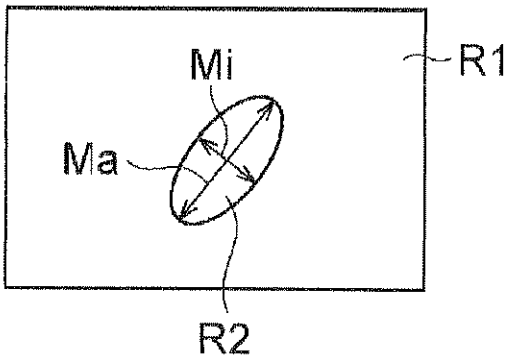
FIG. 6B