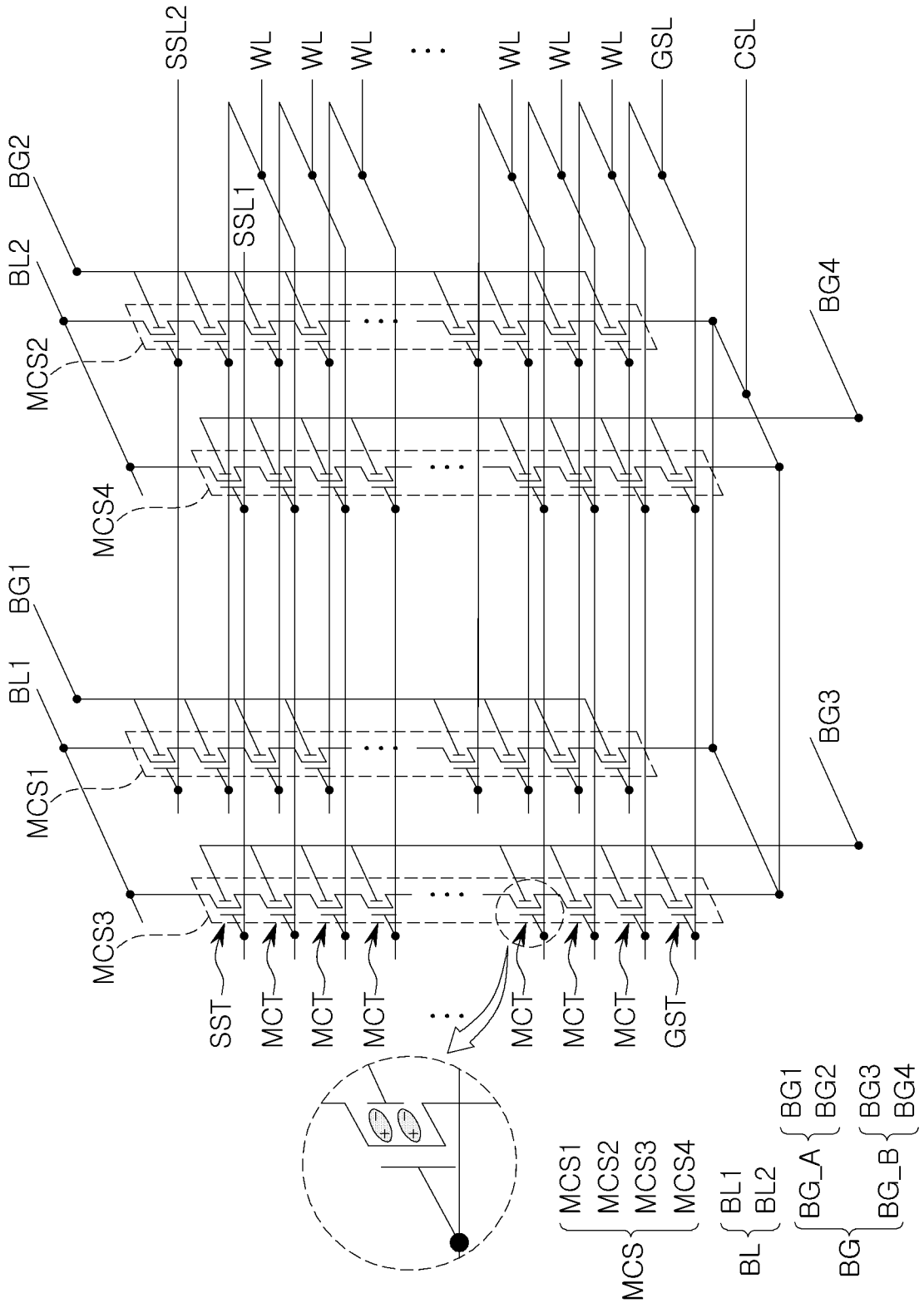

SSL2
WL
WL
WL
WL
WL
WL
GSL
CSL
BG2
BL2
SSL1
MCS2
BG4
MCS4
BG1
BL1
MCS1
BG3
MCS3
SST
MCT
MCT
MCT
MCT
MCT
MCT
GST
MCS
MCS1
MCS2
MCS3
MCS4
BL
BL1
BL2
BG
BG_A
BG1
BG2
BG_B
BG3
BG4

FIG. 1

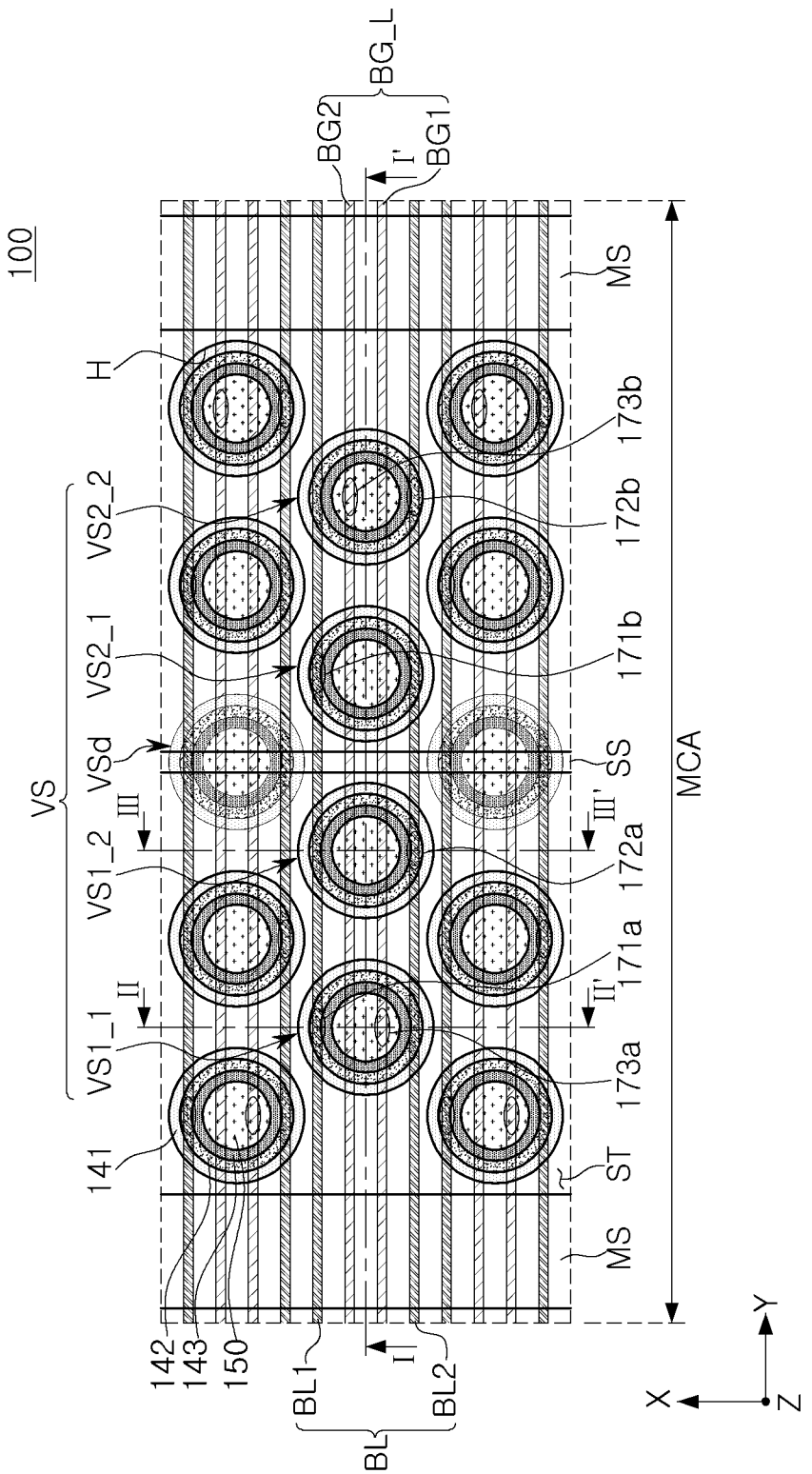

100
VS
VS1_1
VS1_2
VSd
VS2_1
VS2_2
H
141
142
143
150
BL1
BL2
BL
BG2
BG1
BG_L
I
I'
II
II'
III
III'
MS
ST
SS
MCA
171a
172a
173a
171b
172b
173b
X
Y
Z

FIG. 2A

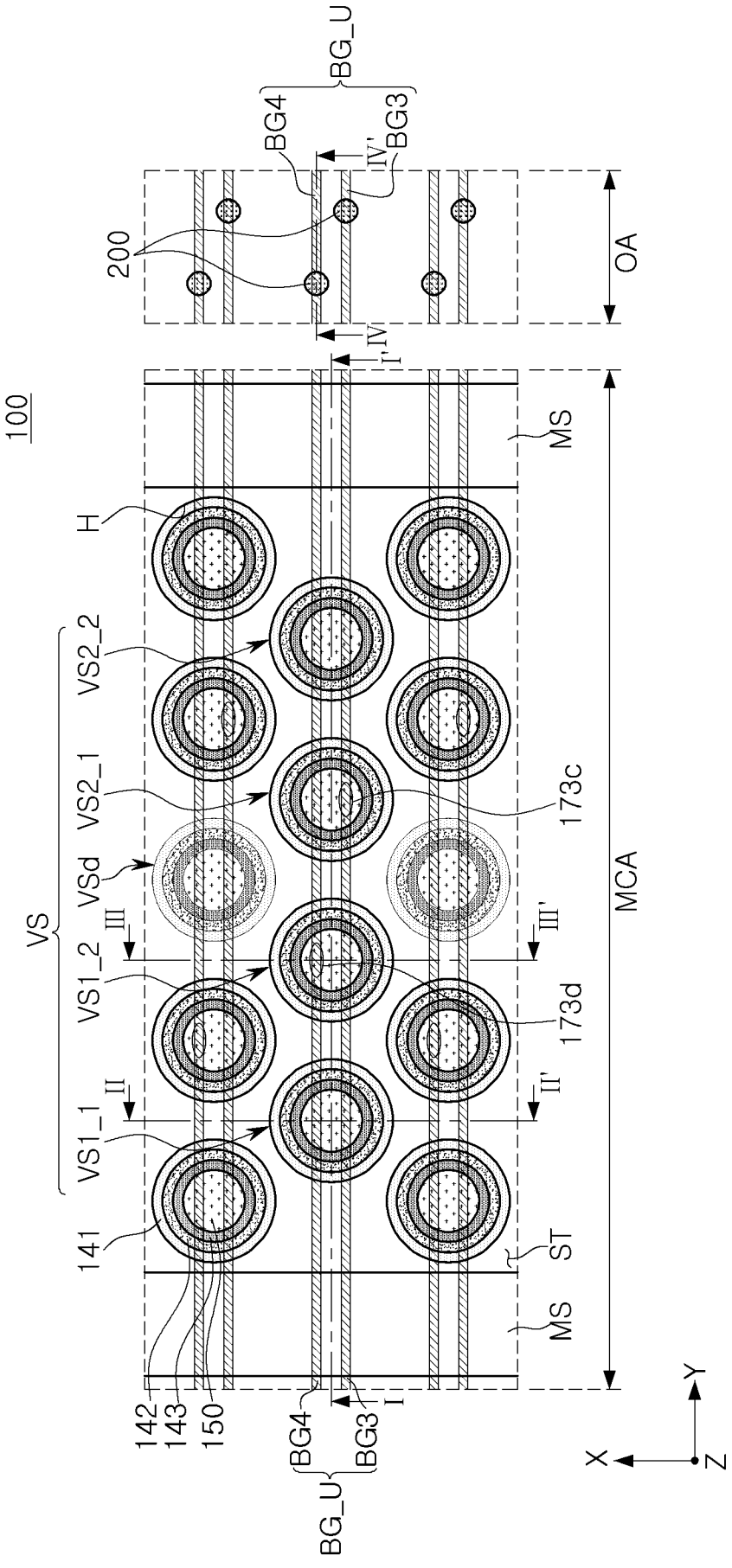

100
VS
VS1_1
VS1_2
VSd
VS2_1
VS2_2
H
141
142
143
150
BG_U
BG4
BG3
I
I'
II
II'
III
III'
IV
IV'
MS
ST
MCA
OA
200
173c
173d
X
Y
Z

FIG. 2B

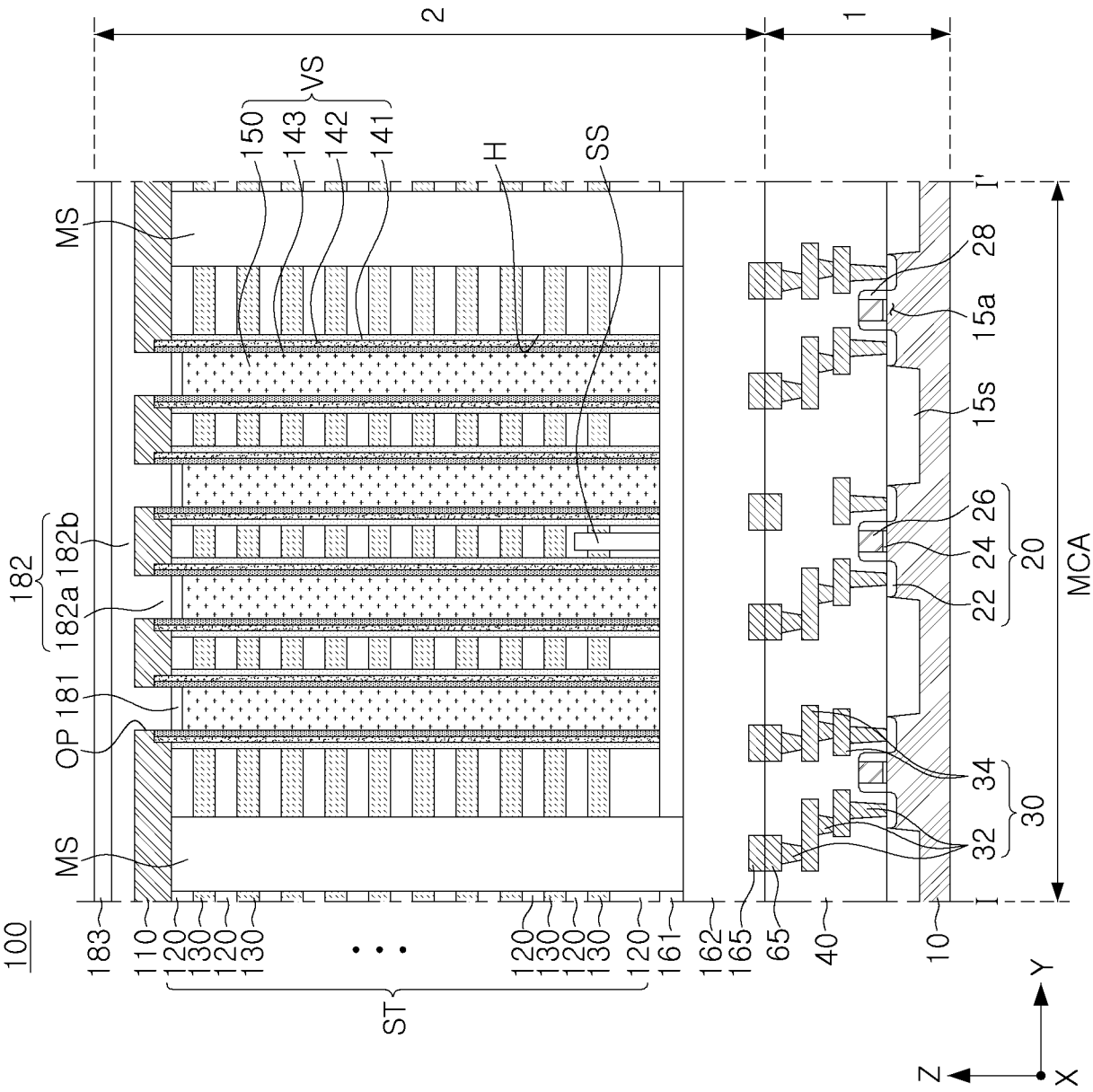

100
183
110
120
130
120
130
ST
120
130
120
130
120
161
162
165
65
40
10
MS
182
182b
182a
OP
181
MS
150
143
142
141
VS
H
SS
2
1
I
I'
28
15a
15s
26
24
22
20
34
32
30
MCA
Z
Y
X

FIG. 3A

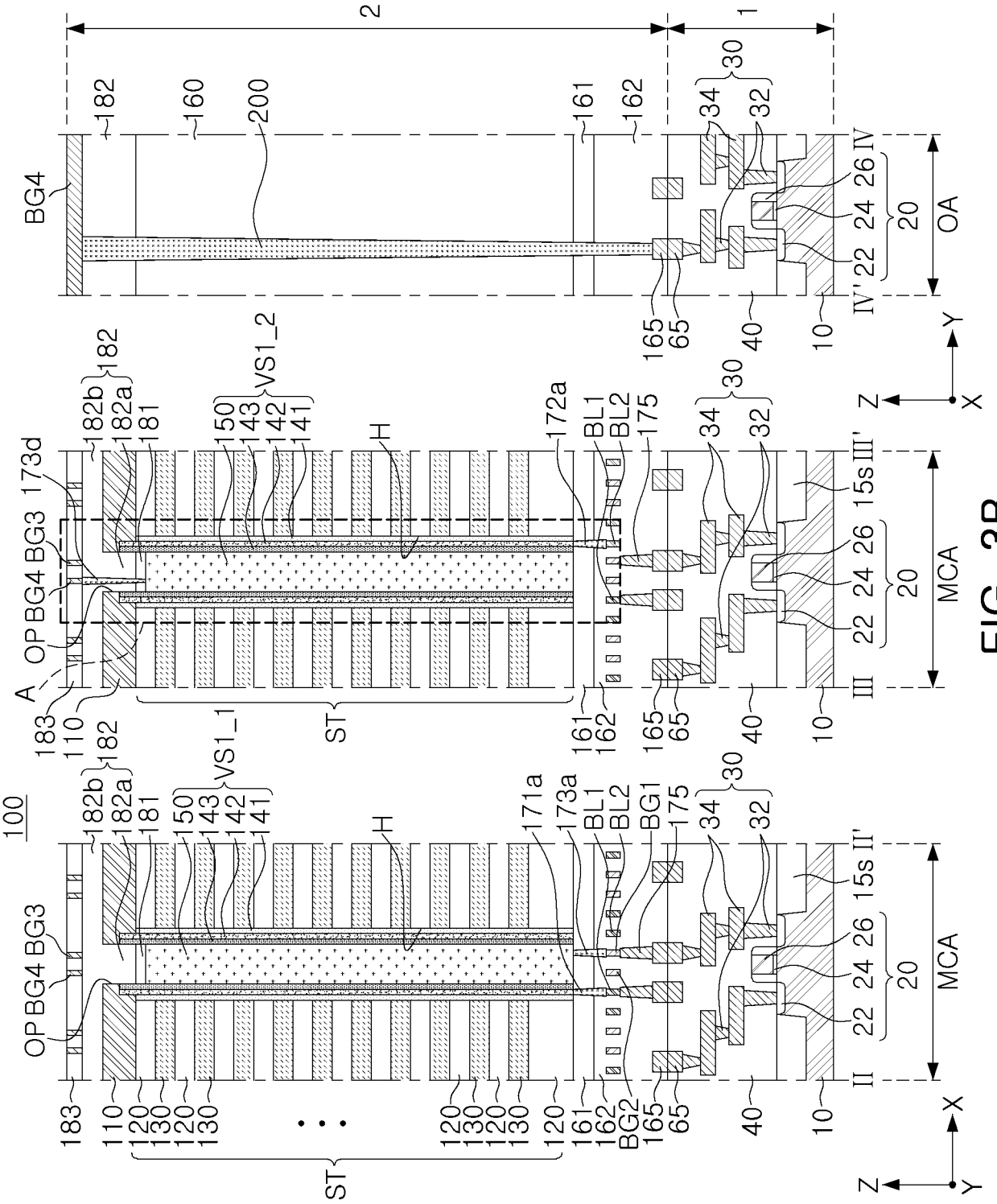

100
2
1
BG4
182
160
200
161
162
34
32
30
IV
26
24
22
20
OA
IV'
165
65
40
10
Y
Z
X
A
OP
BG3
173d
182b
182a
181
150
143
142
141
VS1_2
VS1_1
H
172a
BL1
BL2
175
III'
15s
MCA
III
183
110
ST
171a
173a
BG1
BG2
II
II'

FIG. 3B

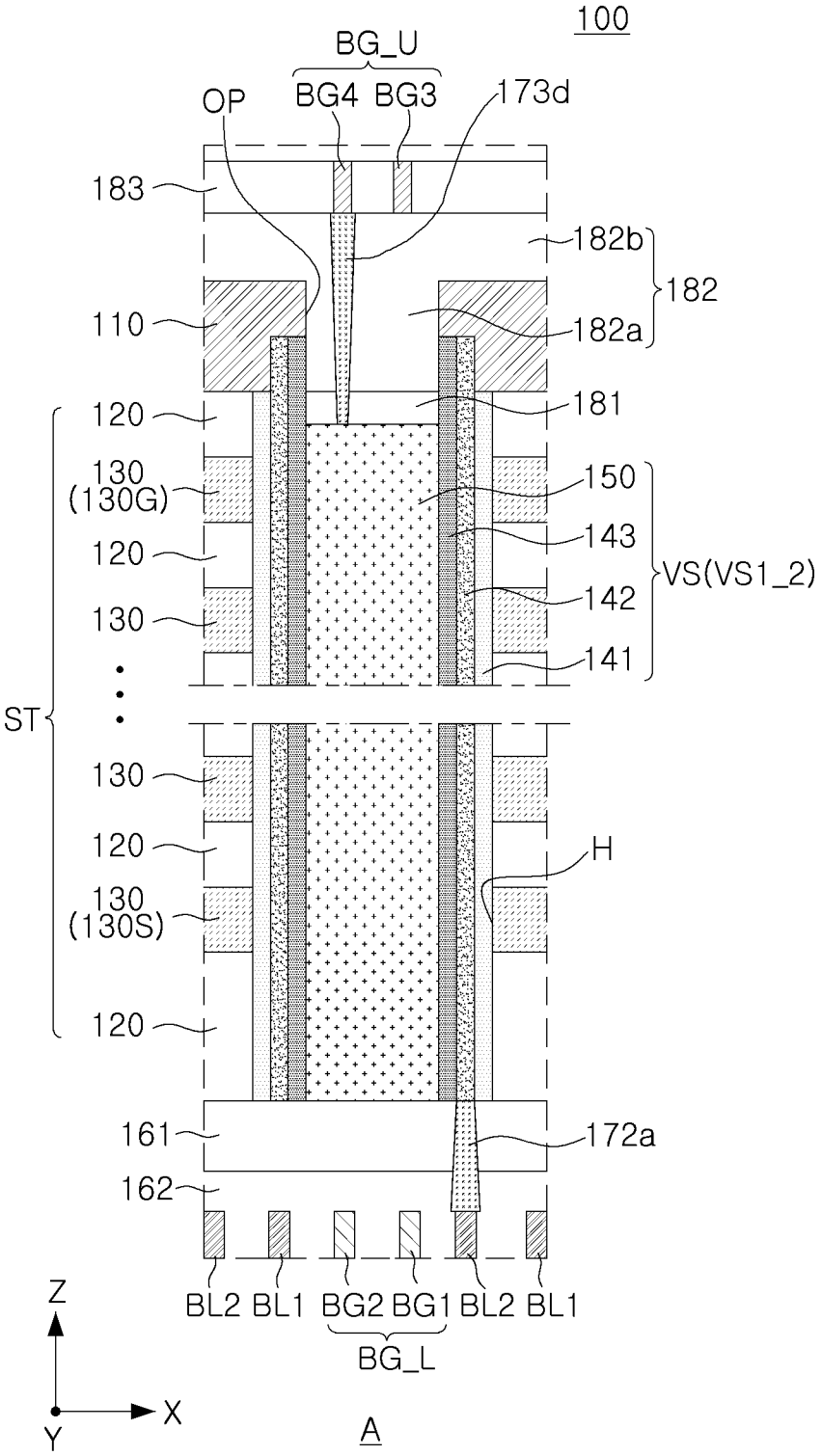

100
BG_U
BG4 BG3
OP
173d
183
182b
182
110
182a
181
120
130
(130G)
150
143
120
VS(VS1_2)
130
142
141
ST
130
120
H
130
(130S)
120
161
172a
162
BL2 BL1 BG2 BG1 BL2 BL1
BG_L
Z
X
Y
A

FIG. 4

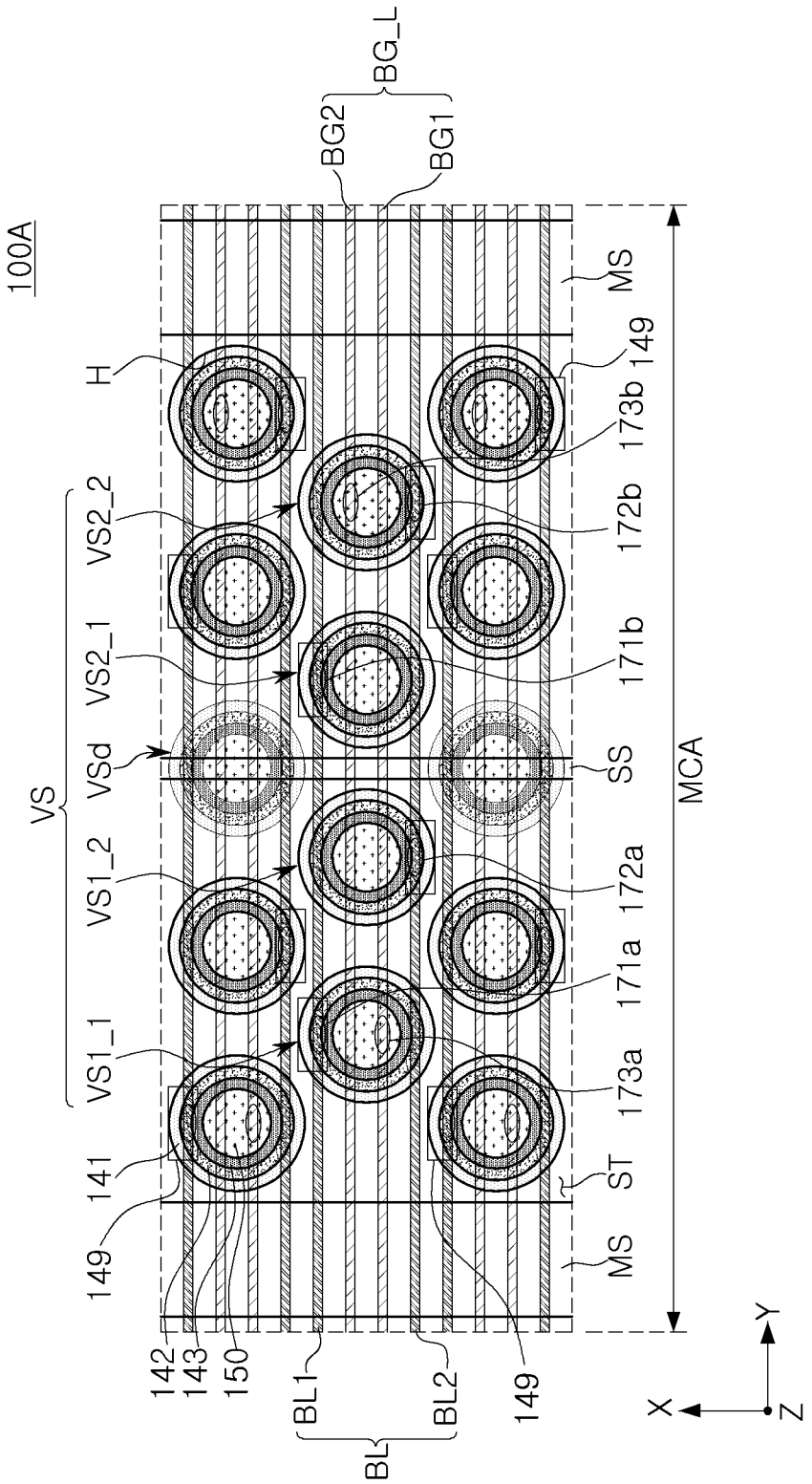

100A
VS
VS1_1
VS1_2
VSd
VS2_1
VS2_2
H
BG_L
BG2
BG1
MS
149
173b
172b
171b
SS
172a
171a
173a
ST
MS
MCA
141
149
142
143
150
BL1
BL2
BL
149
X
Y
Z

FIG. 5A

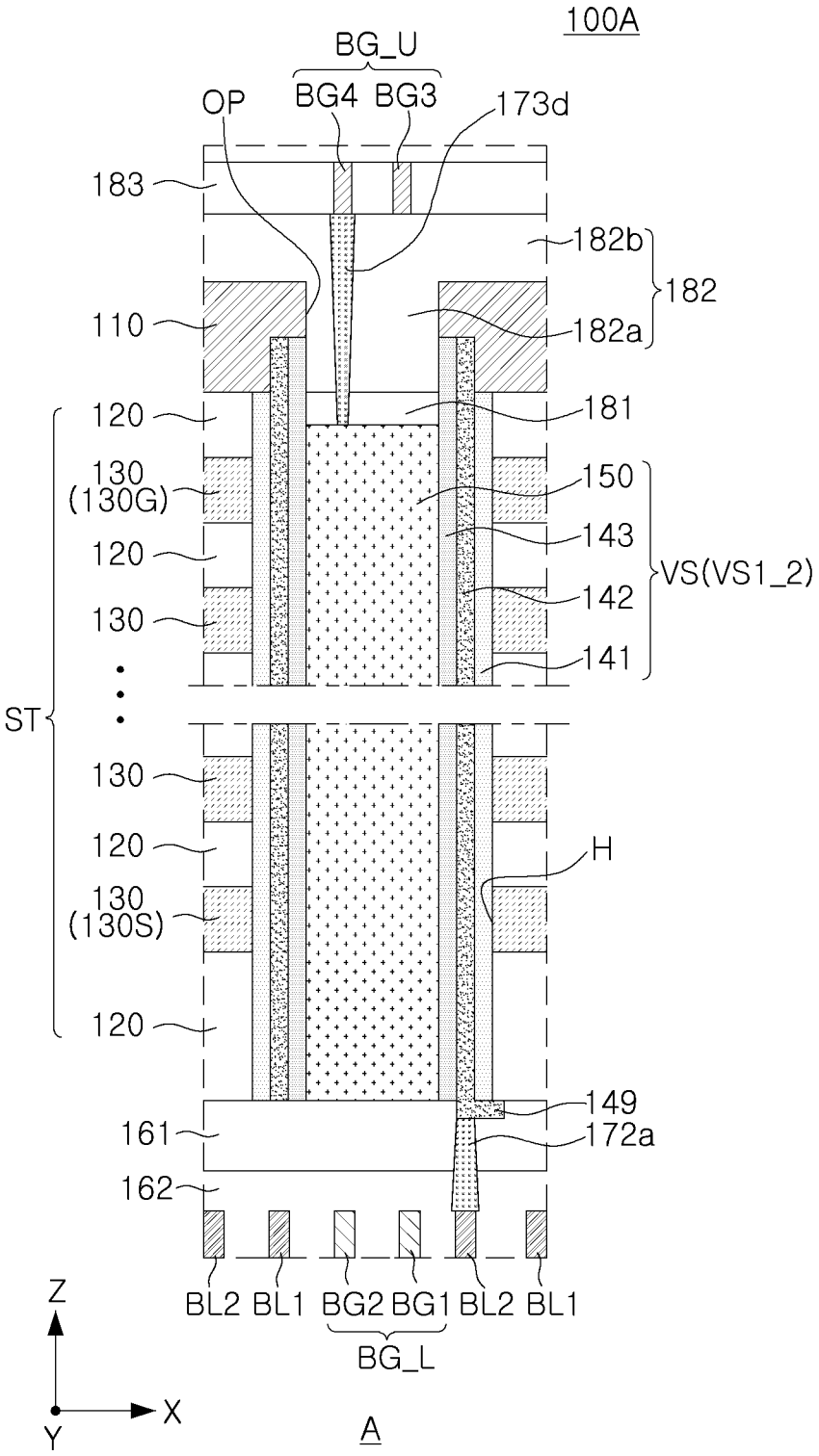

100A
BG_U
BG4
BG3
OP
173d
183
182b
182
110
182a
120
181
130
(130G)
150
120
143
VS(VS1_2)
130
142
141
ST
130
120
H
130
(130S)
120
149
161
172a
162
BL2
BL1
BG2
BG1
BL2
BL1
BG_L
Z
X
Y
A

FIG. 5B

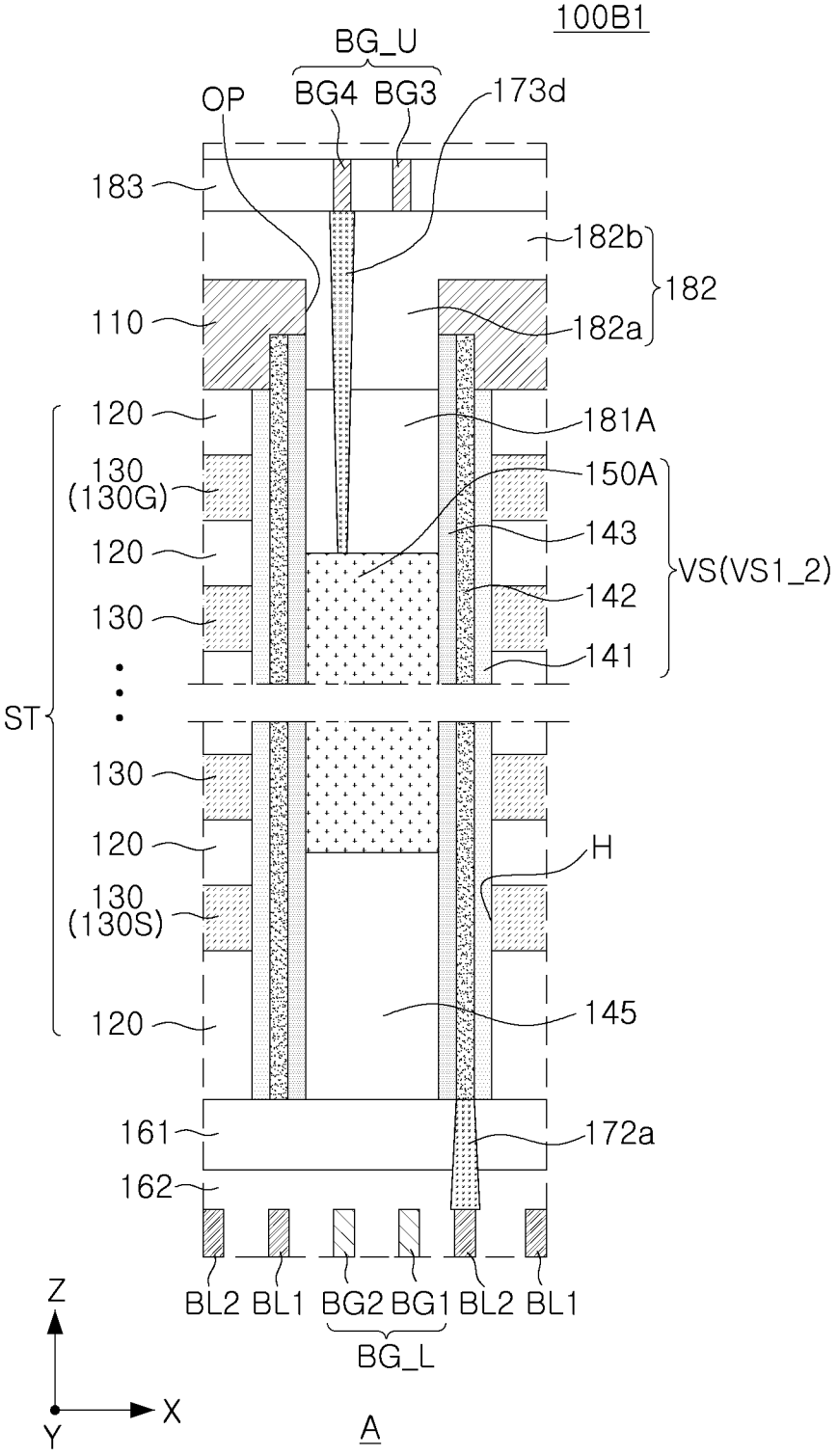

100B1
BG_U
BG4 BG3
OP
173d
183
182b
182
110
182a
120
181A
130
(130G)
150A
120
143
VS(VS1_2)
130
142
141
ST
130
120
H
130
(130S)
120
145
161
172a
162
BL2 BL1 BG2 BG1 BL2 BL1
BG_L
Z
X
Y
A

FIG. 6A

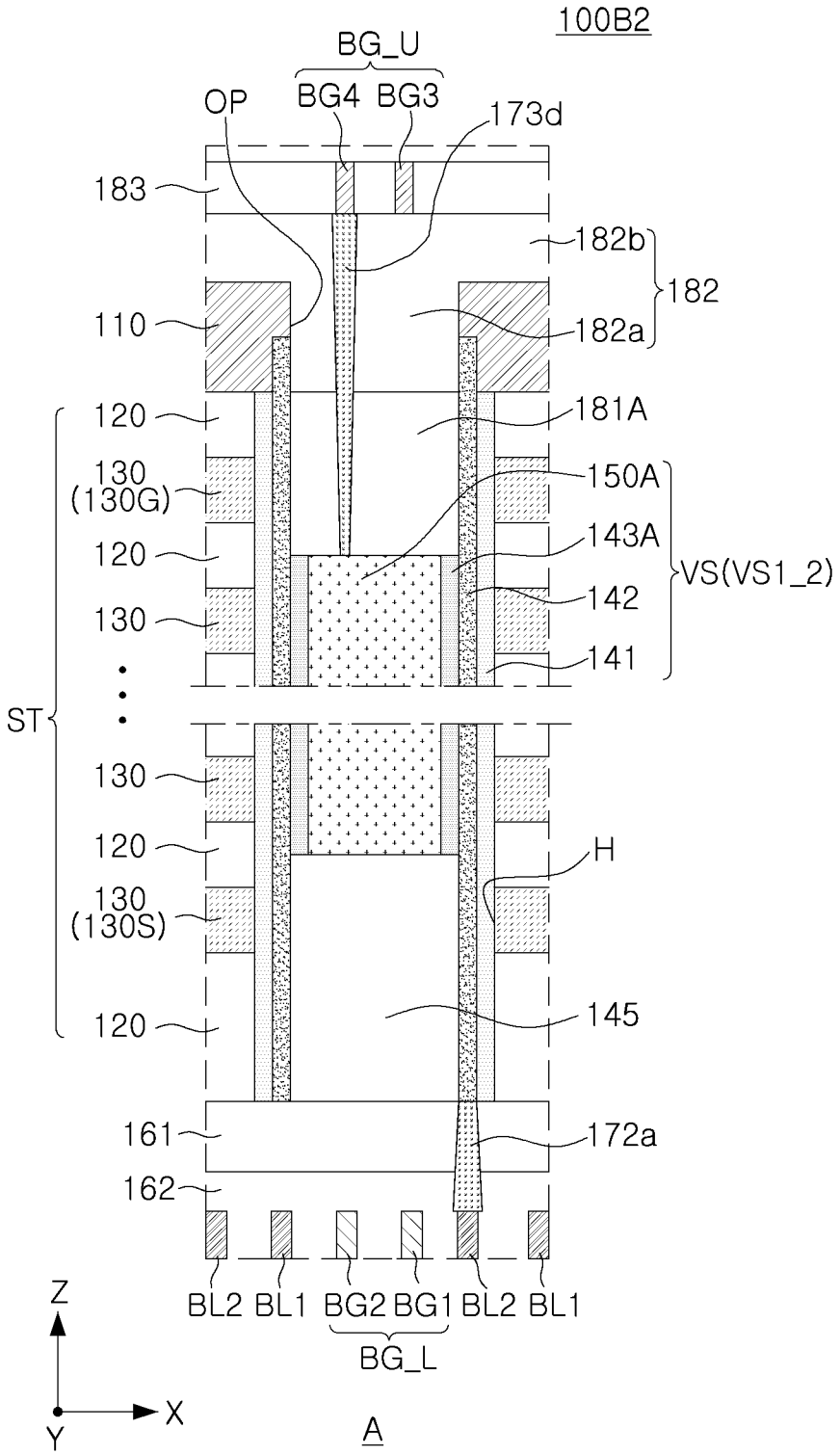

100B2
BG_U
BG4 BG3
OP
173d
183
182b
182
110
182a
120
181A
130
(130G)
150A
120
143A
VS(VS1_2)
130
142
141
ST
130
120
H
130
(130S)
120
145
161
172a
162
BL2 BL1 BG2 BG1 BL2 BL1
BG_L
Z
X
Y
A

FIG. 6B

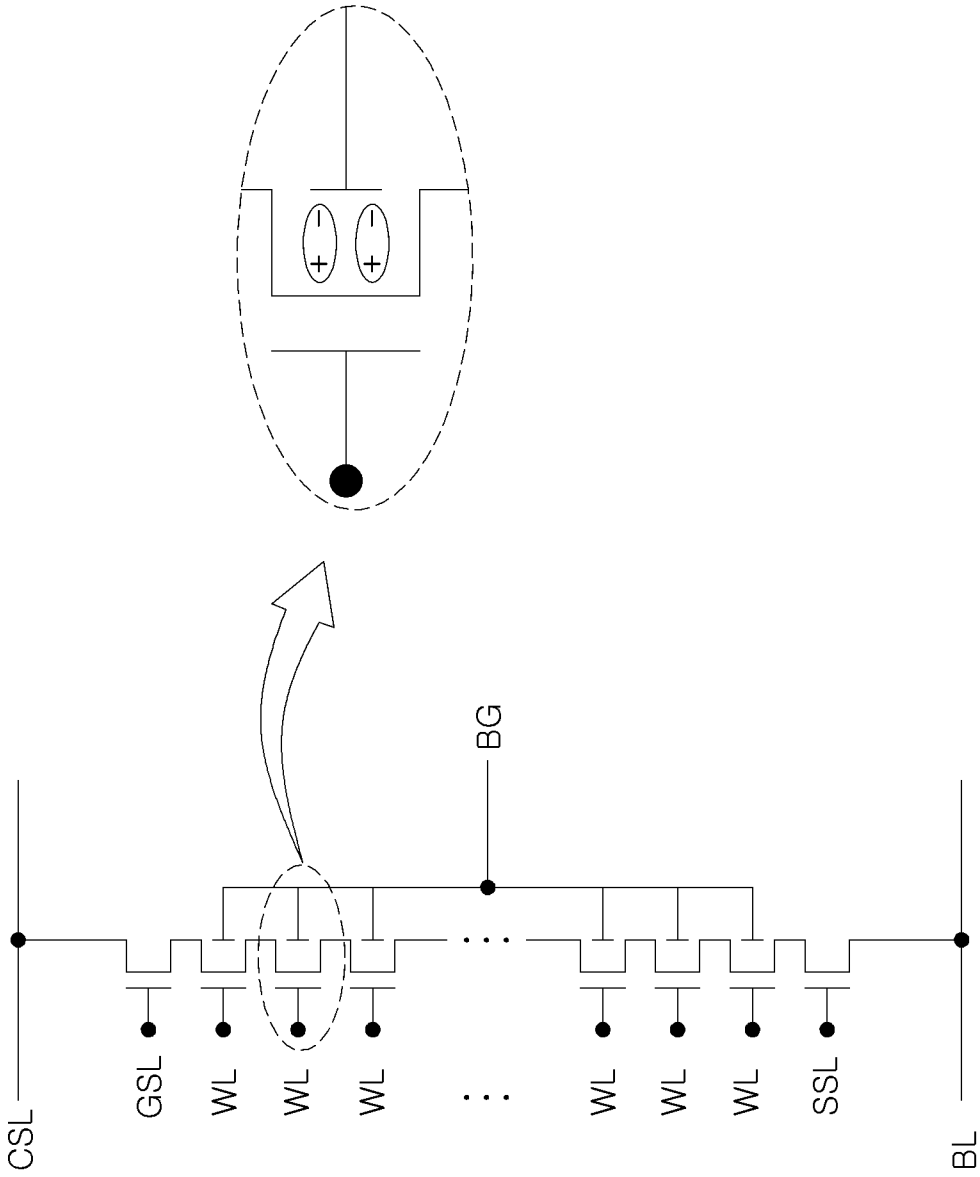


FIG. 7

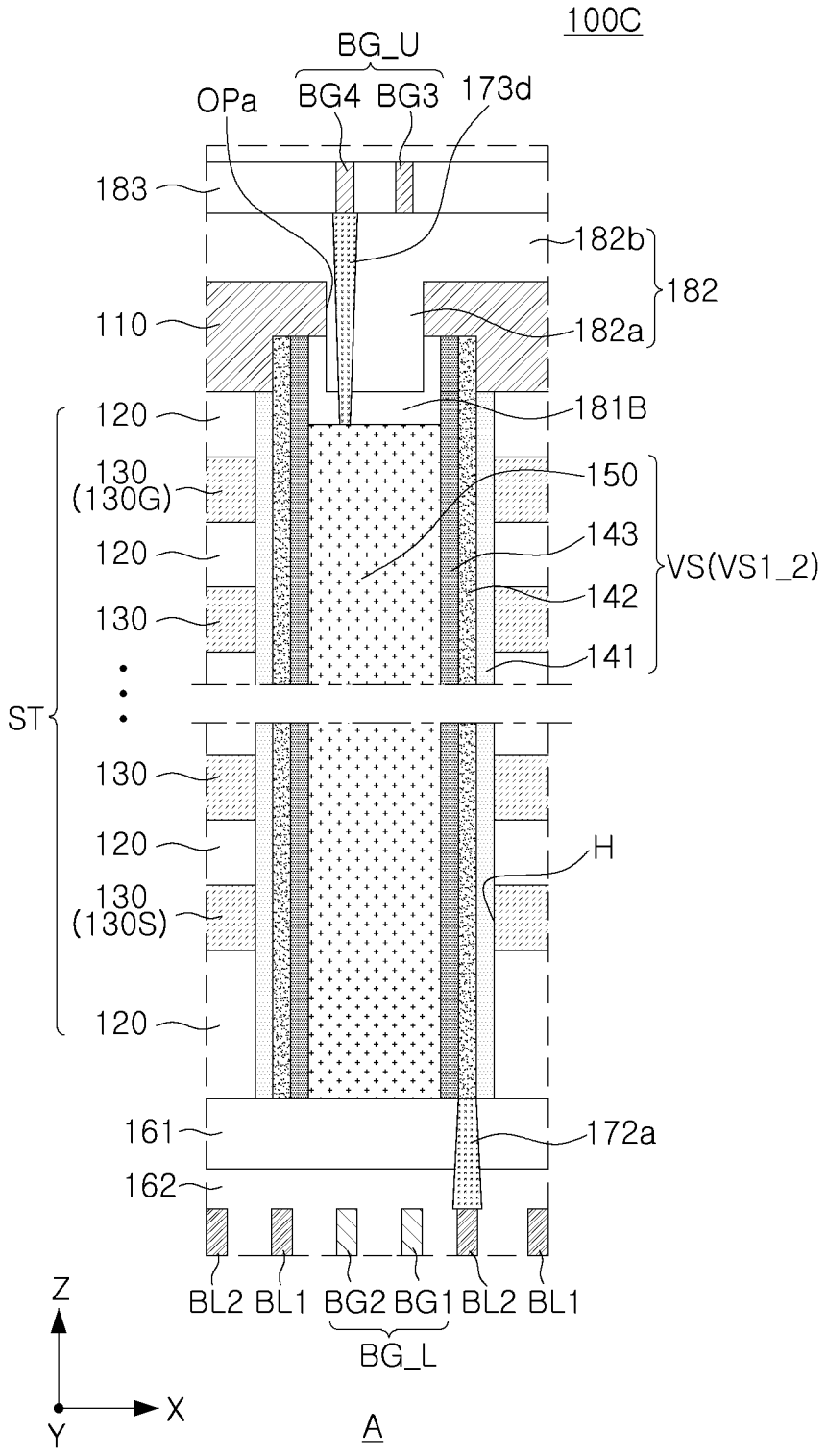

100C
BG_U
BG4 BG3
OPa
173d
183
182b
182
110
182a
120
181B
130
(130G)
150
120
143
VS(VS1_2)
130
142
141
ST
130
120
H
130
(130S)
120
161
172a
162
BL2 BL1 BG2 BG1 BL2 BL1
BG_L
Z
X
Y
A

FIG. 8A

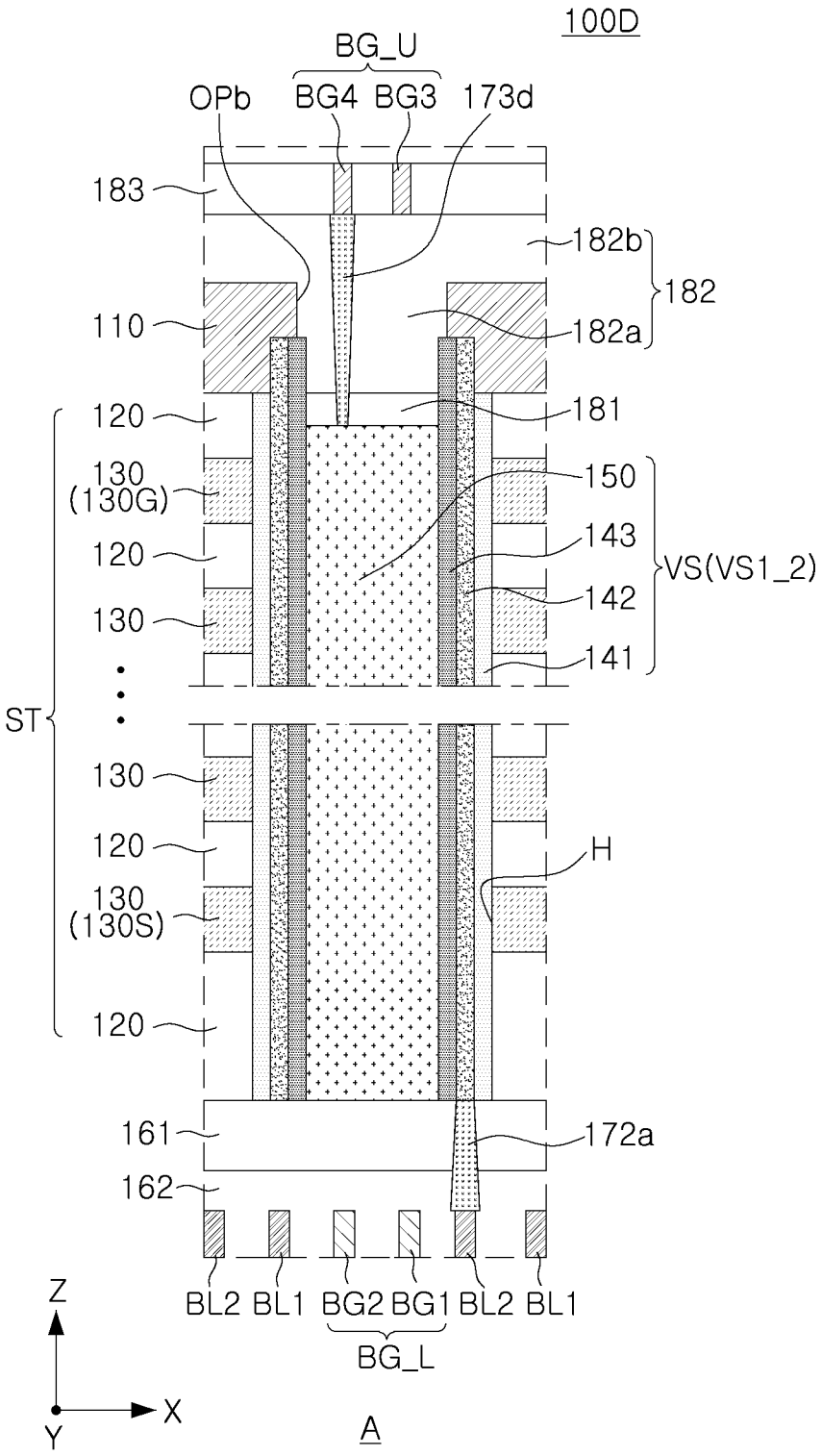

100D
BG_U
OPb
BG4
BG3
173d
183
182b
182
110
182a
120
181
130
(130G)
150
120
143
VS(VS1_2)
130
142
141
ST
130
120
H
130
(130S)
120
161
172a
162
BL2
BL1
BG2
BG1
BL2
BL1
BG_L
Z
X
Y
A

FIG. 8B

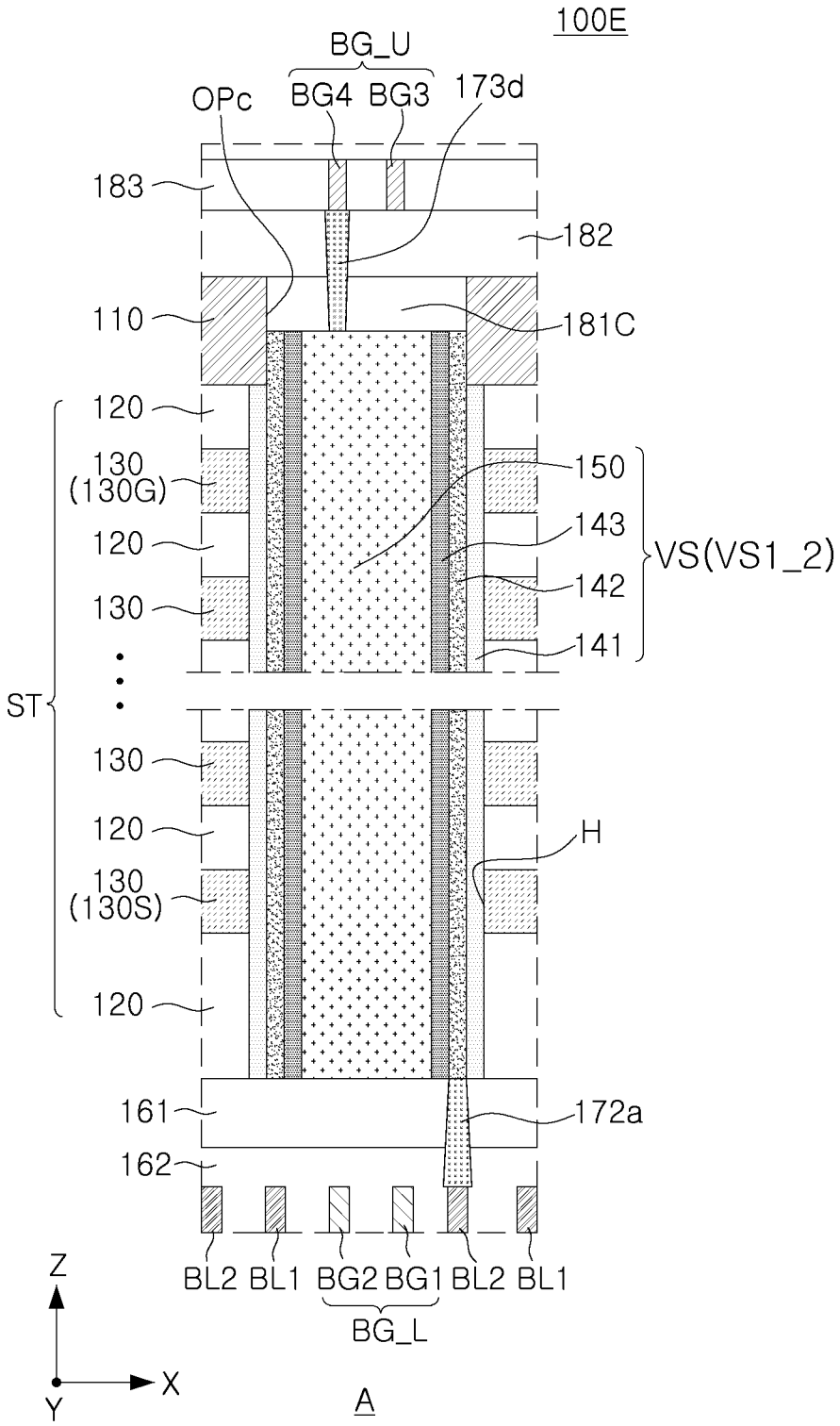

100E
BG_U
BG4
BG3
173d
OPc
183
182
110
181C
120
130
(130G)
150
143
VS(VS1_2)
120
142
130
141
ST
130
120
H
130
(130S)
120
161
172a
162
BL2
BL1
BG2
BG1
BL2
BL1
BG_L
Z
X
Y
A

FIG. 9

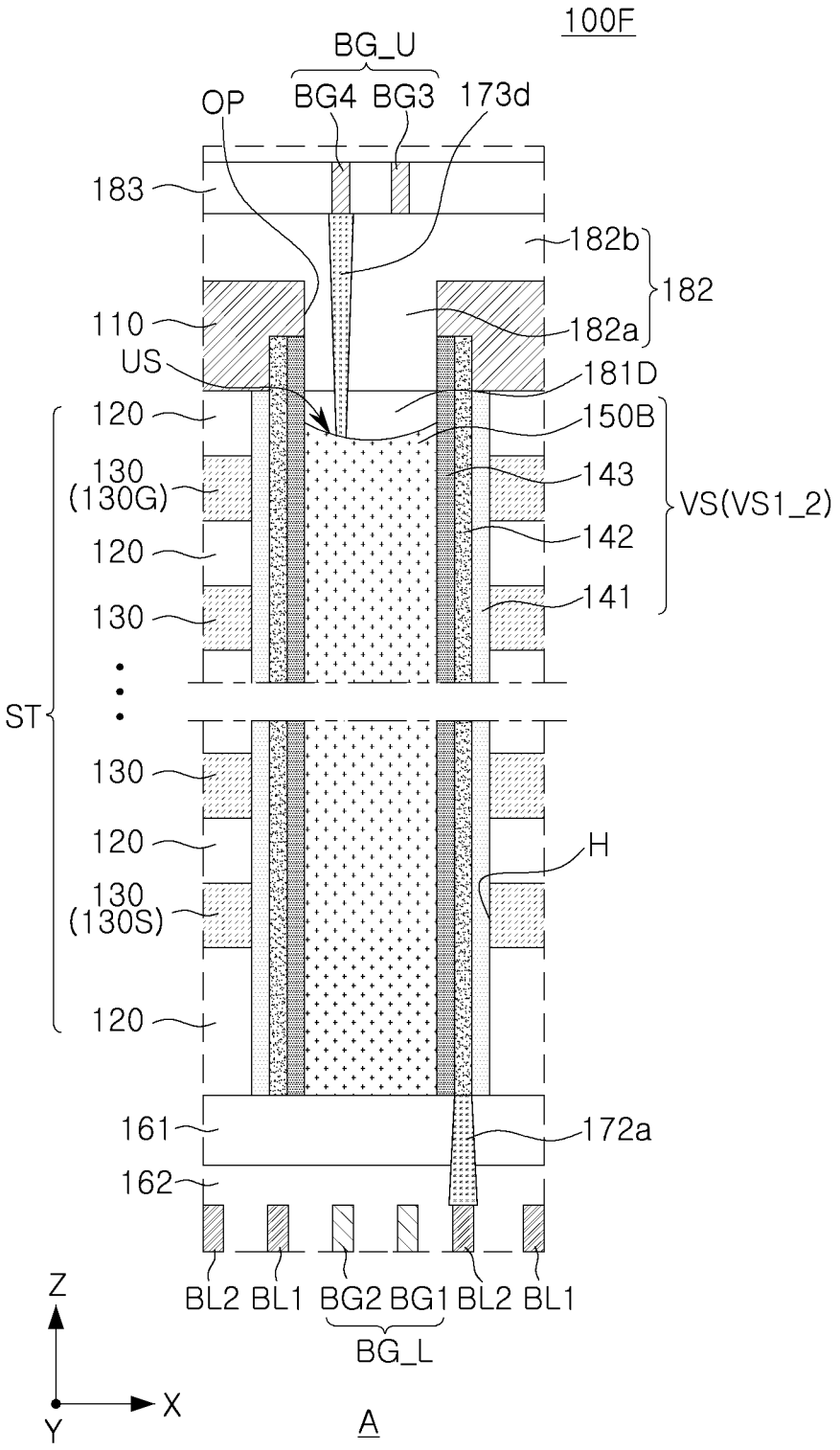

100F
BG_U
OP
BG4
BG3
173d
183
182b
182
110
182a
US
181D
120
150B
130
(130G)
143
VS(VS1_2)
120
142
130
141
ST
130
120
H
130
(130S)
120
161
172a
162
BL2
BL1
BG2
BG1
BL2
BL1
BG_L
Z
X
Y
A

FIG. 10

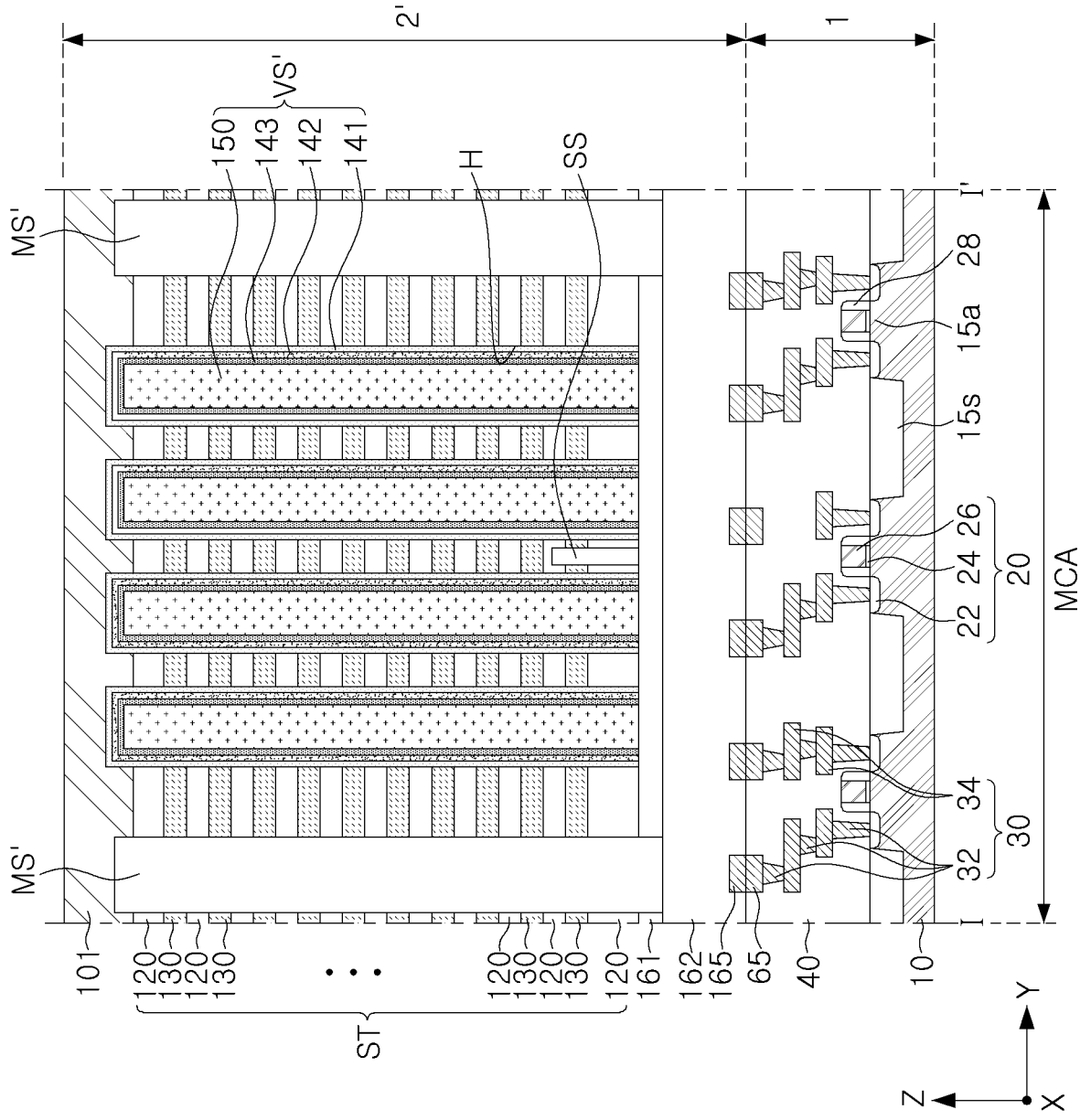

2'
1
VS'
150
143
142
141
H
SS
MS'
MS'
I'
I
28
15a
15s
26
24
22
20
MCA
34
32
30
101
120
130
120
130
ST
120
130
120
130
120
161
162
165
65
40
10
Y
Z
X

FIG. 11A

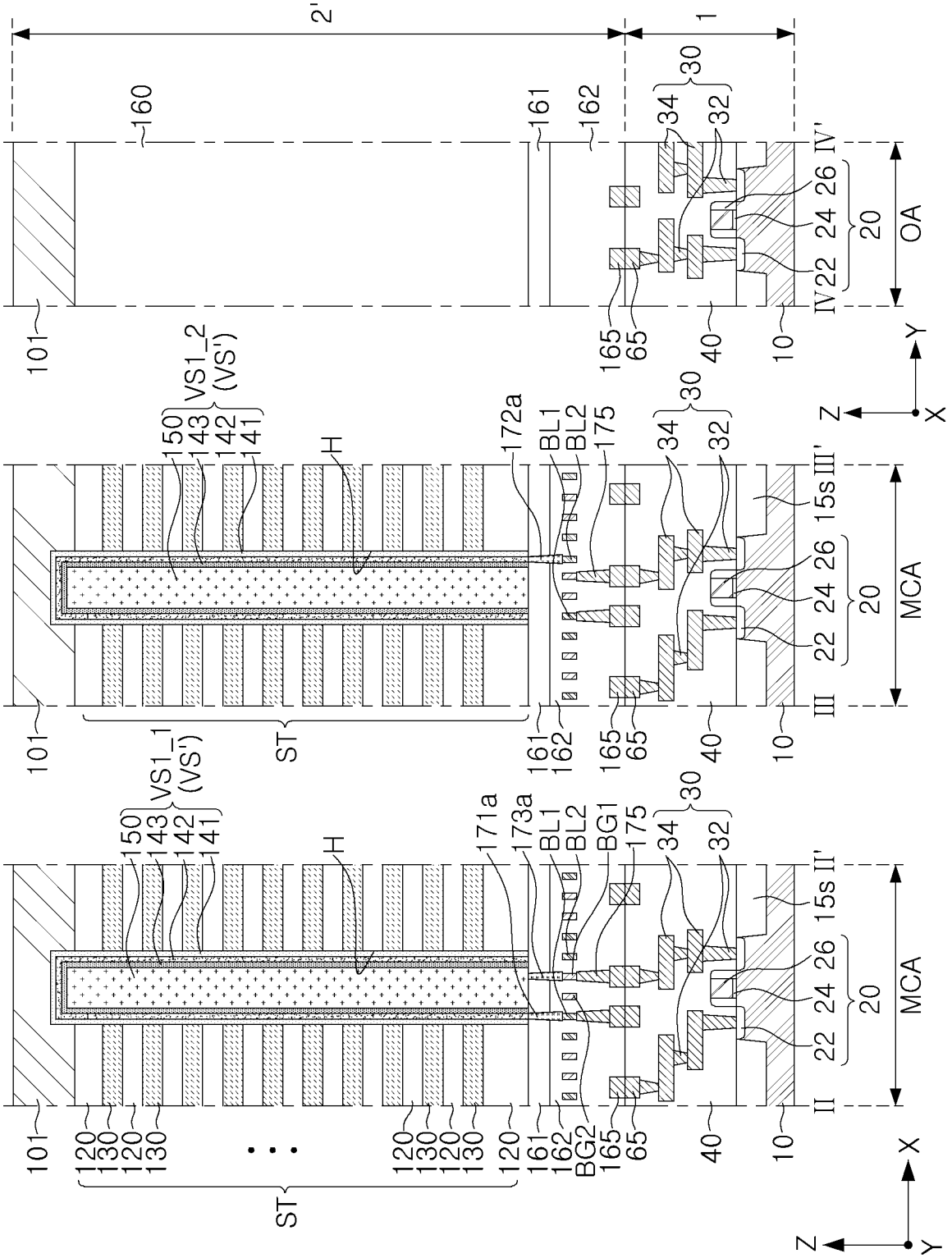

2'
1
160
161
162
30
34
32
IV'
26
24
22
20
OA
IV
101
VS1_2
(VS')
150
143
142
141
H
172a
BL1
BL2
175
III'
15s
MCA
III
VS1_1
(VS')
ST
165
65
40
10
Z
X
Y
171a
173a
BG1
BG2
II'
II
120
130
161
162

FIG. 11B

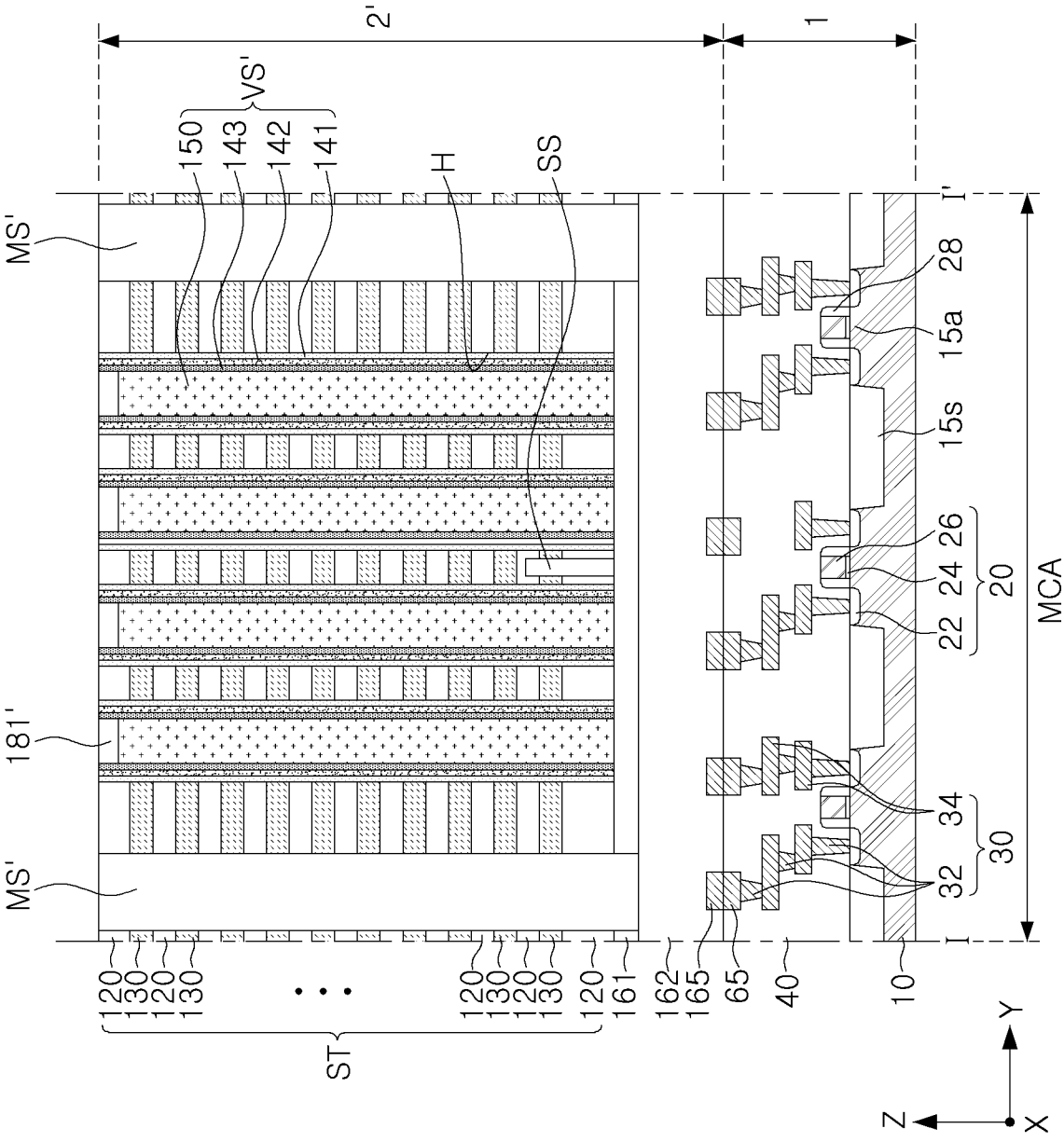

2'
1
VS'
150
143
142
141
H
SS
MS'
181'
MS'
I'
I
28
15a
15s
26
24
22
20
34
32
30
MCA
120
130
120
130
120
130
120
130
120
161
162
165
65
40
10
ST
Y
Z
X

FIG. 12A

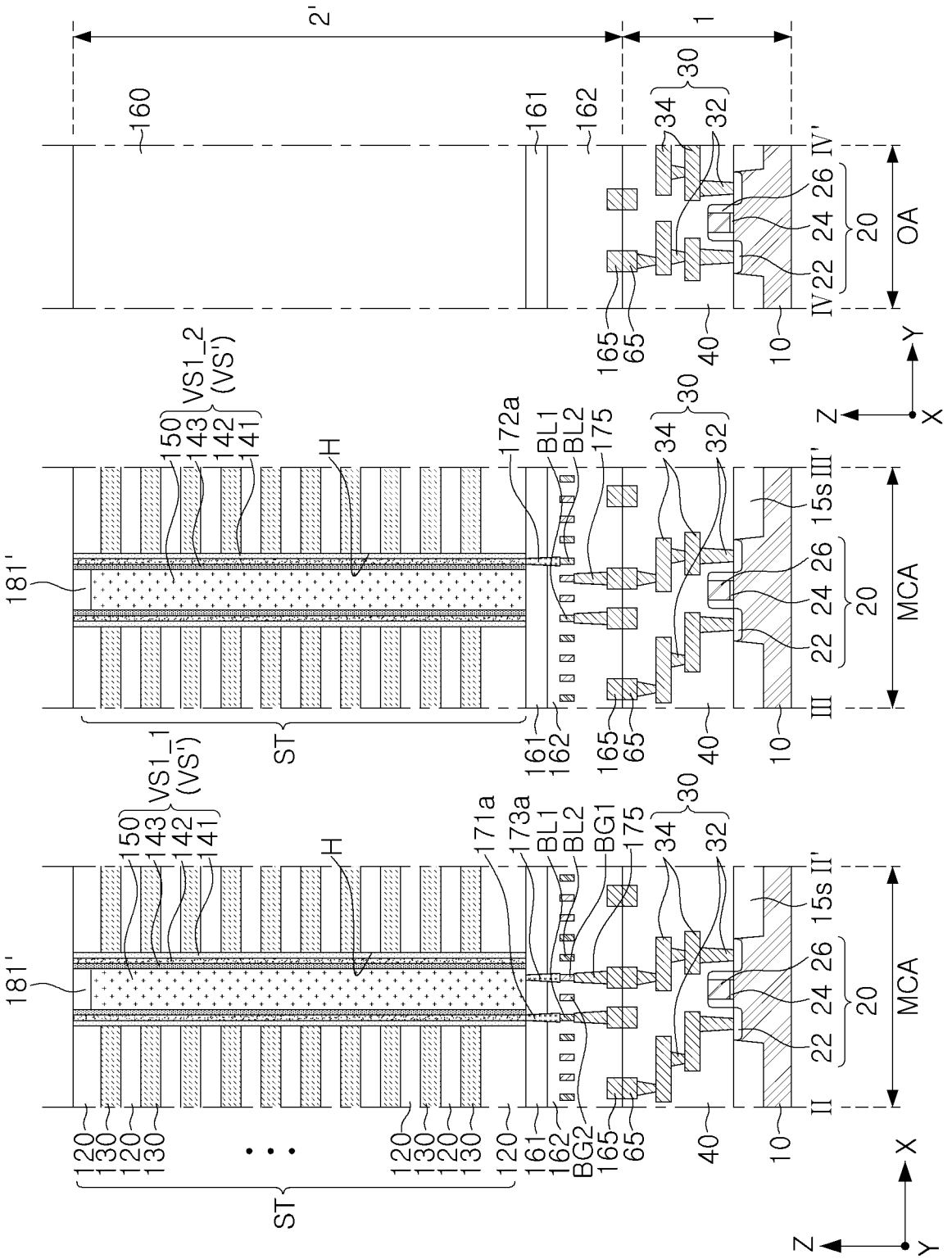

2'
1
160
161
162
30
34
32
IV'
26
24
22
20
OA
IV
165
65
40
10
Y
Z
X
VS1_2
(VS')
150
143
142
141
H
172a
BL1
BL2
175
III'
15s
MCA
III
VS1_1
ST
171a
173a
BG1
II'
II
120
130
BG2
181'

FIG. 12B

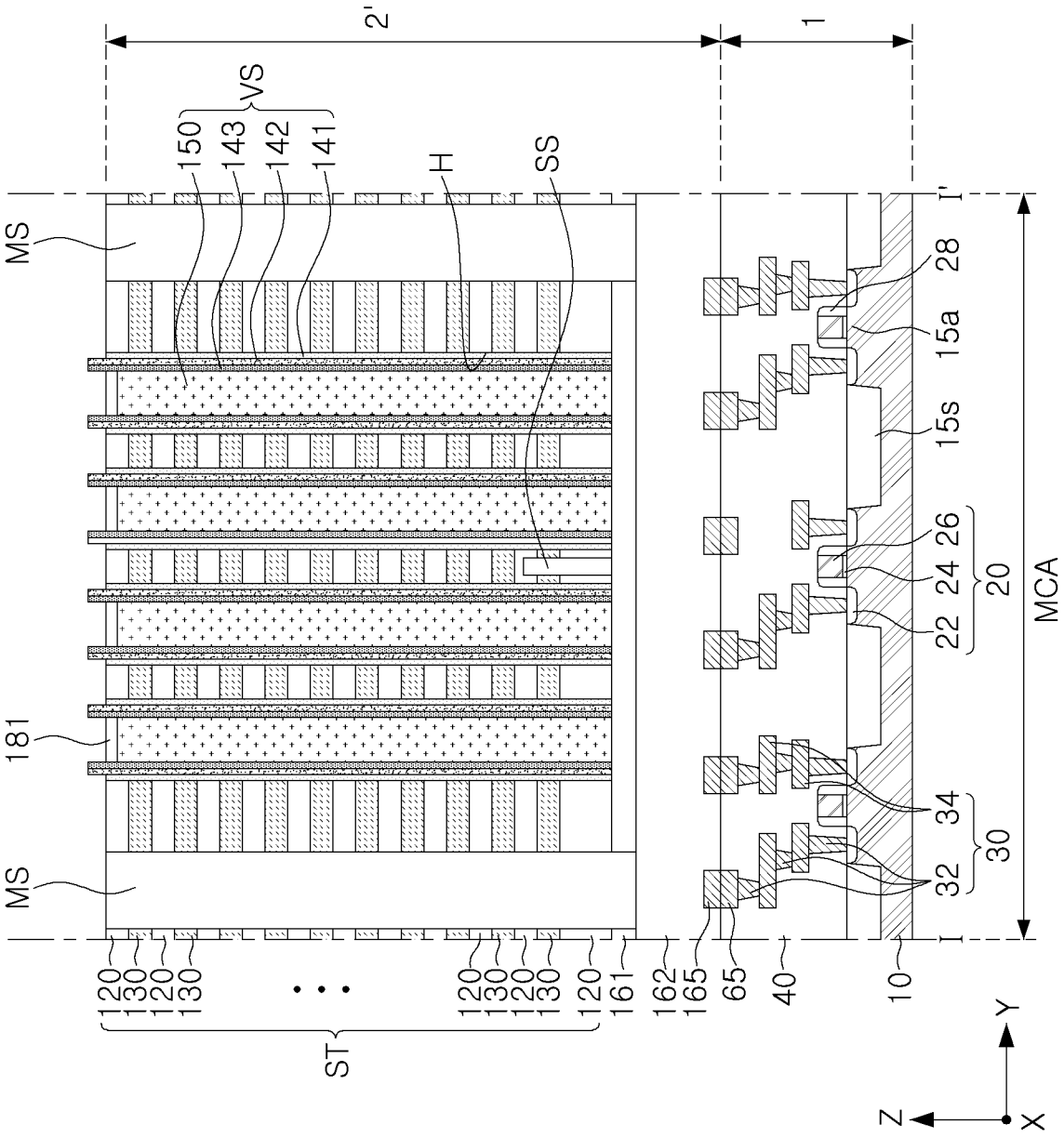

2'
1
VS
150
143
142
141
H
SS
I'
I
MS
181
MS
28
15a
15s
26
24
22
20
34
32
30
MCA
120
130
120
130
120
130
120
130
120
161
162
165
65
40
10
ST
Y
Z
X

FIG. 13A

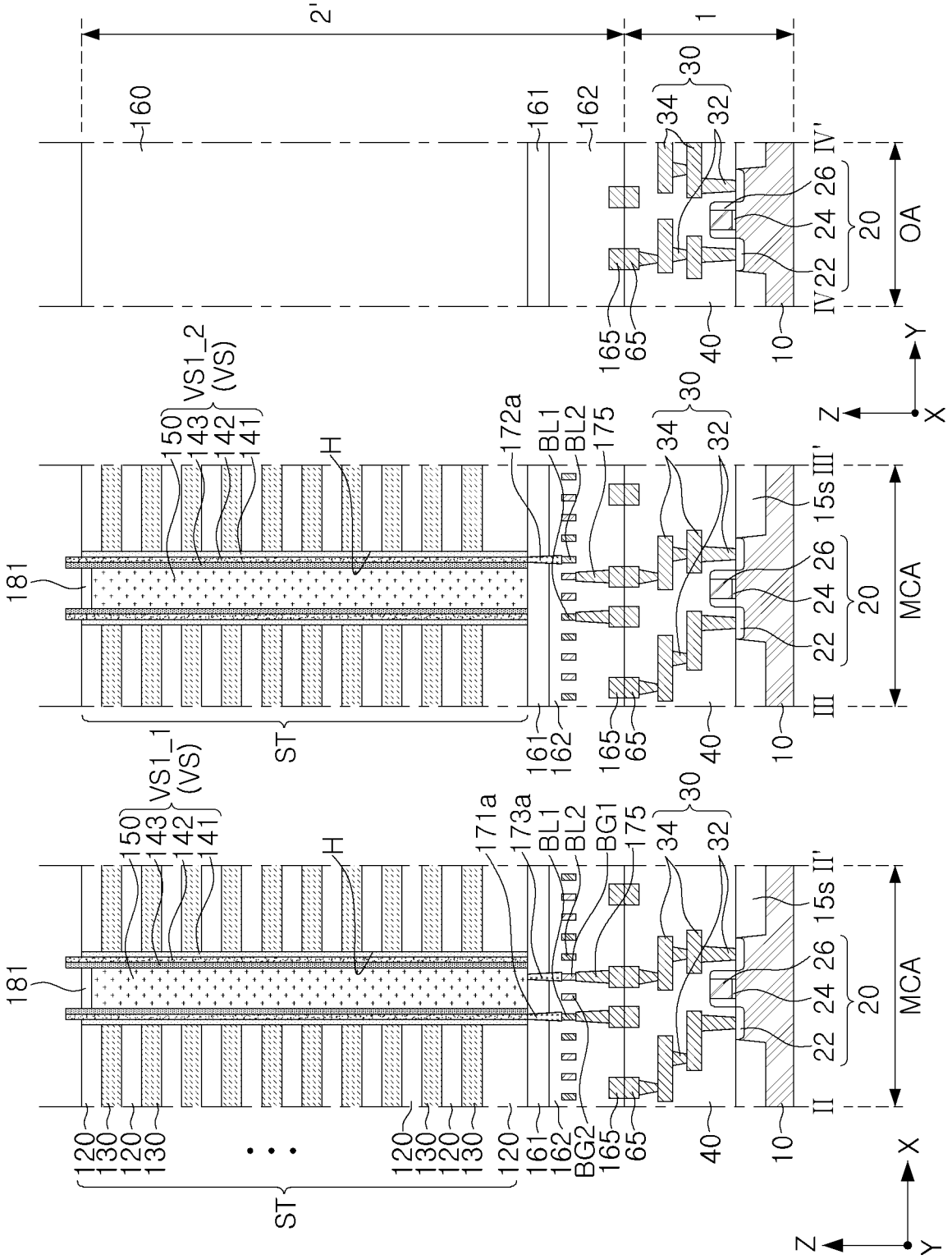

2'
1
160
161
162
30
34
32
IV'
26
24
22
20
OA
IV
165
65
40
10
Y
Z
X
VS1_2
(VS)
150
143
142
141
H
172a
BL1
BL2
175
III'
15s
MCA
III
VS1_1
171a
173a
BG1
II'
II
BG2
120
130
ST

FIG. 13B

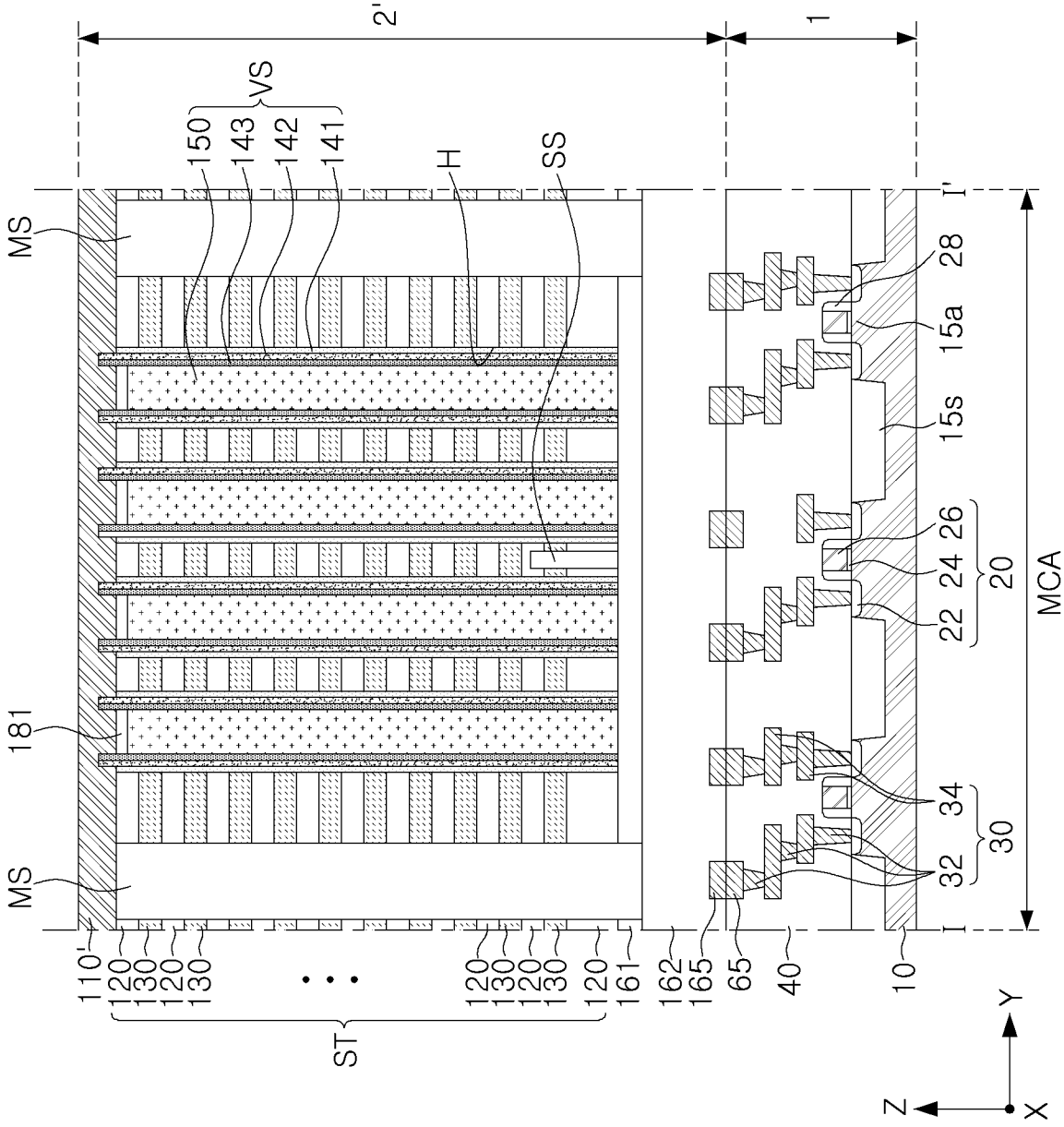

2'
1
VS
150
143
142
141
H
SS
MS
181
MS
I'
28
15a
15s
26
24
22
20
MCA
34
32
30
110'
120
130
120
130
120
130
120
130
120
161
162
165
65
40
10
ST
I
Y
Z
X

FIG. 14A

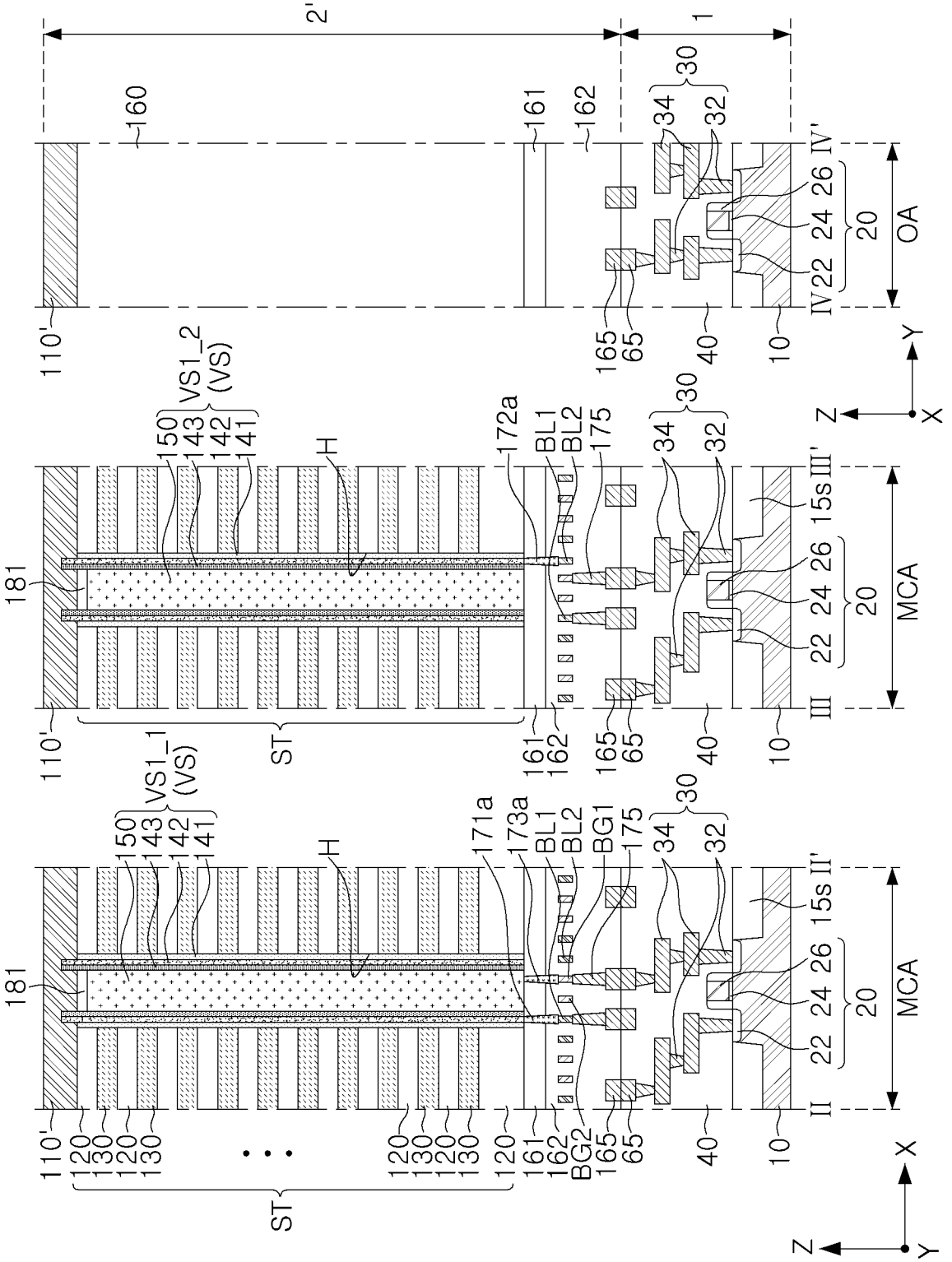

2'
1
160
161
162
30
34
32
110'
165
65
40
10
IV'
26
24
22
20
OA
IV
VS1_2
(VS)
150
143
142
141
H
172a
BL1
BL2
175
III'
15s
MCA
III
VS1_1
ST
171a
173a
BG1
II'
II
BG2
120
130
Z
Y
X

FIG. 14B

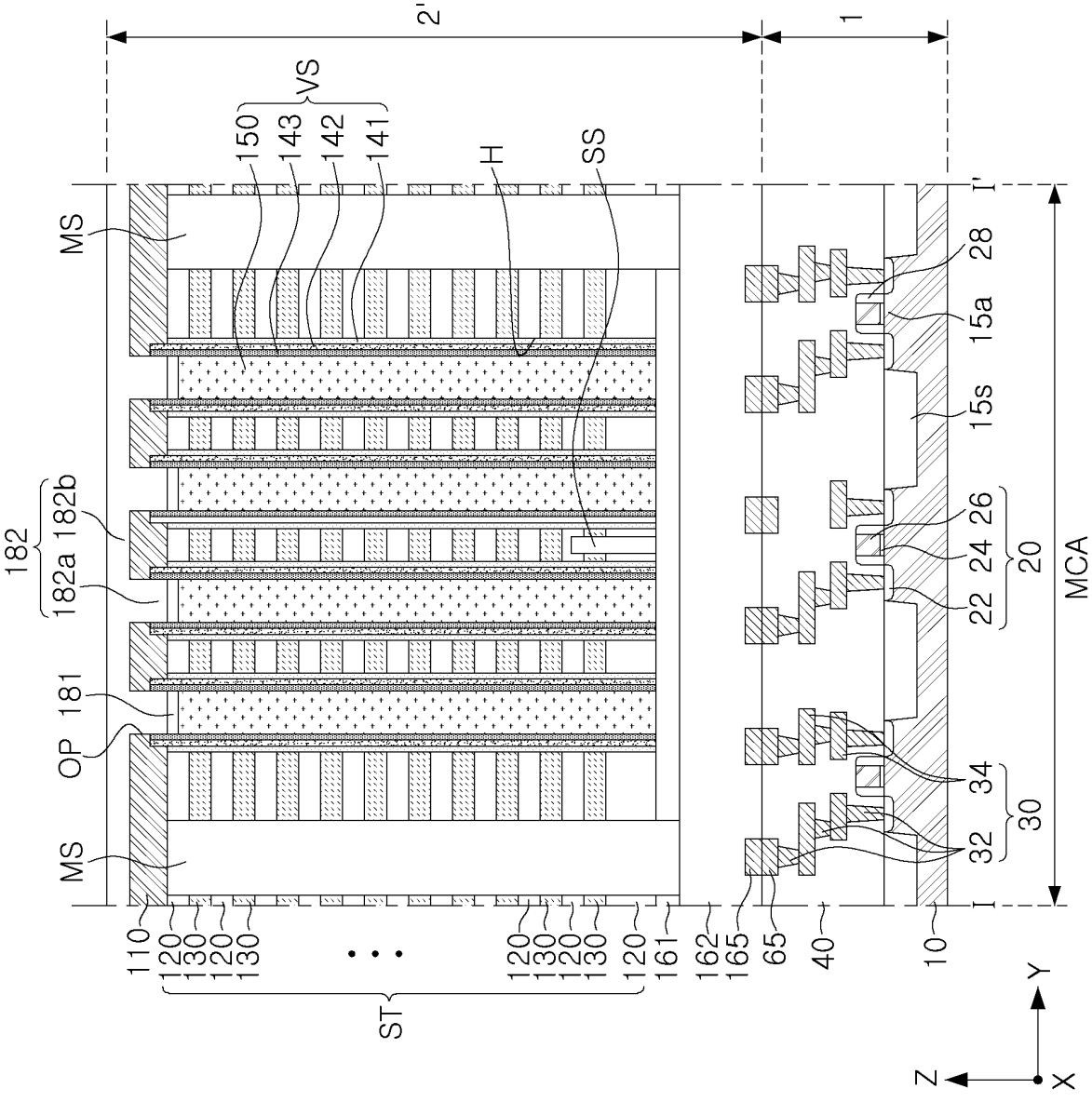

2'
1
VS
150
143
142
141
H
SS
I'
I
MS
182
182a
182b
181
OP
MS
28
15a
15s
26
24
22
20
34
32
30
MCA
110
120
130
120
130
120
130
120
130
120
161
162
165
65
40
10
ST
Y
Z
X

FIG. 15A

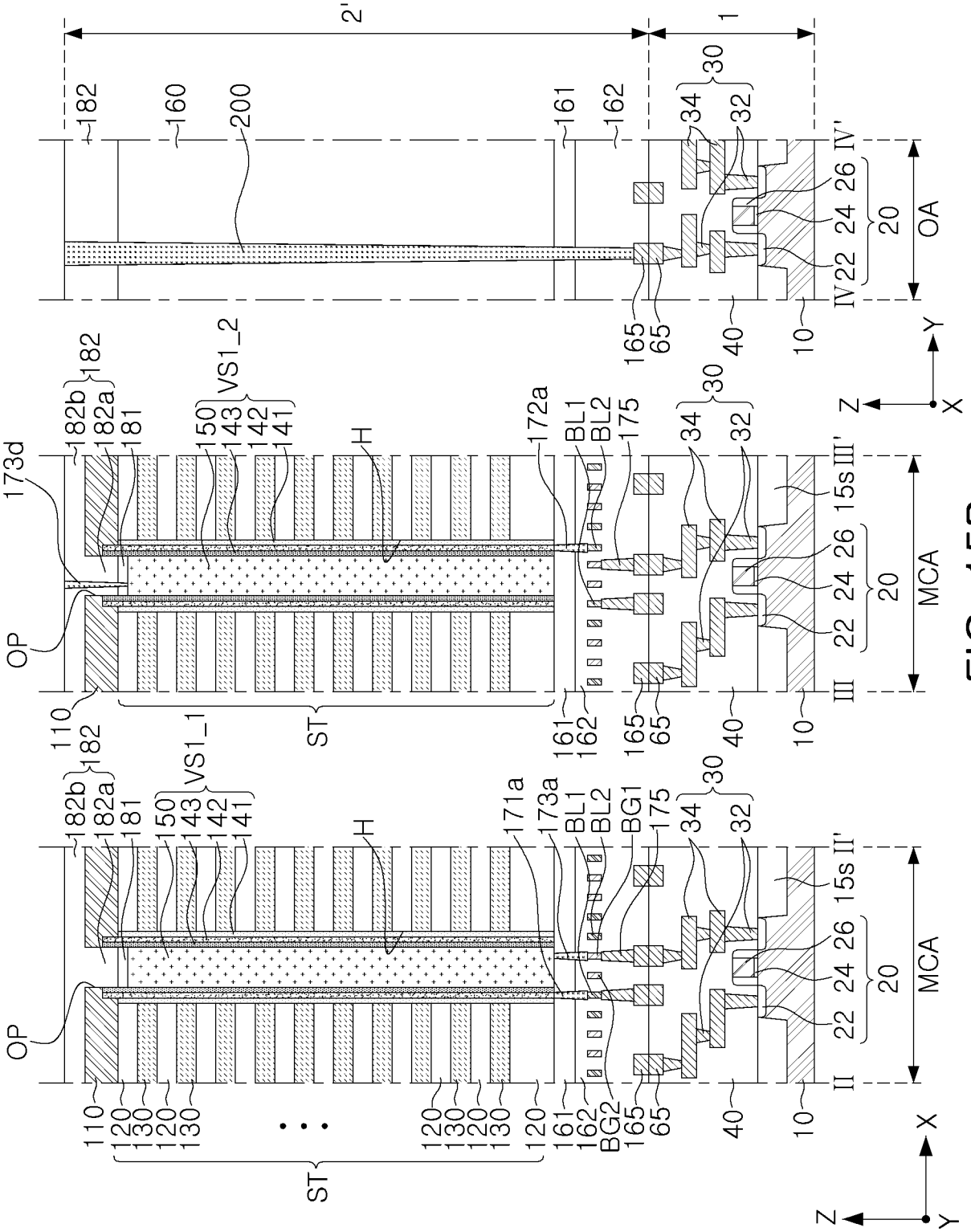

2'
1
182
160
200
161
162
30
34
32
IV'
26
24
22
20
OA
IV
165
65
40
10
Y
Z
X
182b
182a
181
150
143
142
141
VS1_2
VS1_1
173d
OP
110
H
172a
BL1
BL2
175
III'
15s
MCA
III
171a
173a
BG1
II'
II
BG2
120
130
ST

FIG. 15B

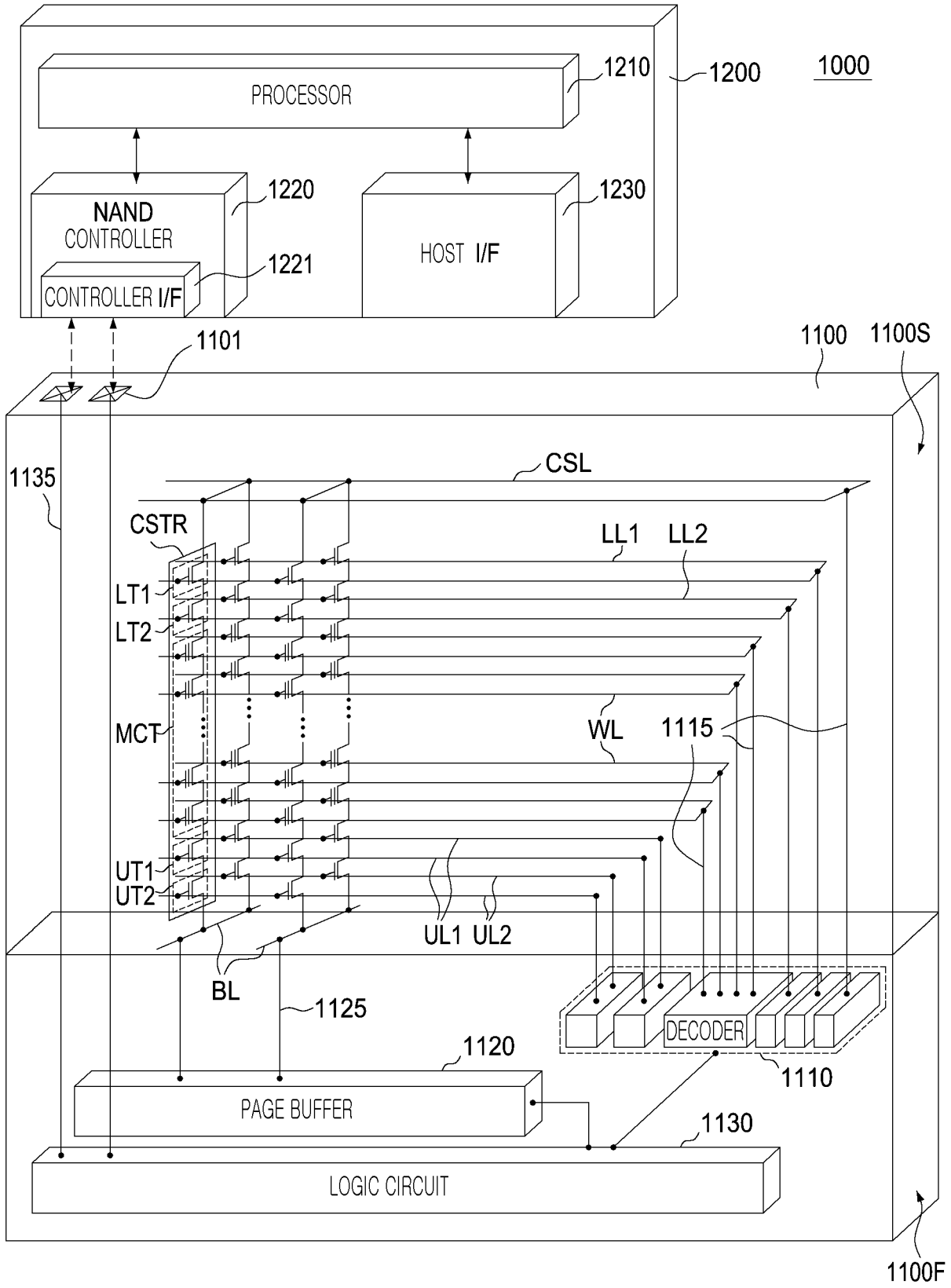

PROCESSOR
1210
1200
1000
NAND
CONTROLLER
1220
CONTROLLER I/F
1221
HOST I/F
1230
1101
1100
1100S
1135
CSL
CSTR
LL1
LL2
LT1
LT2
MCT
WL
1115
UT1
UT2
UL1
UL2
BL
1125
DECODER
1120
1110
PAGE BUFFER
1130
LOGIC CIRCUIT
1100F

FIG. 16

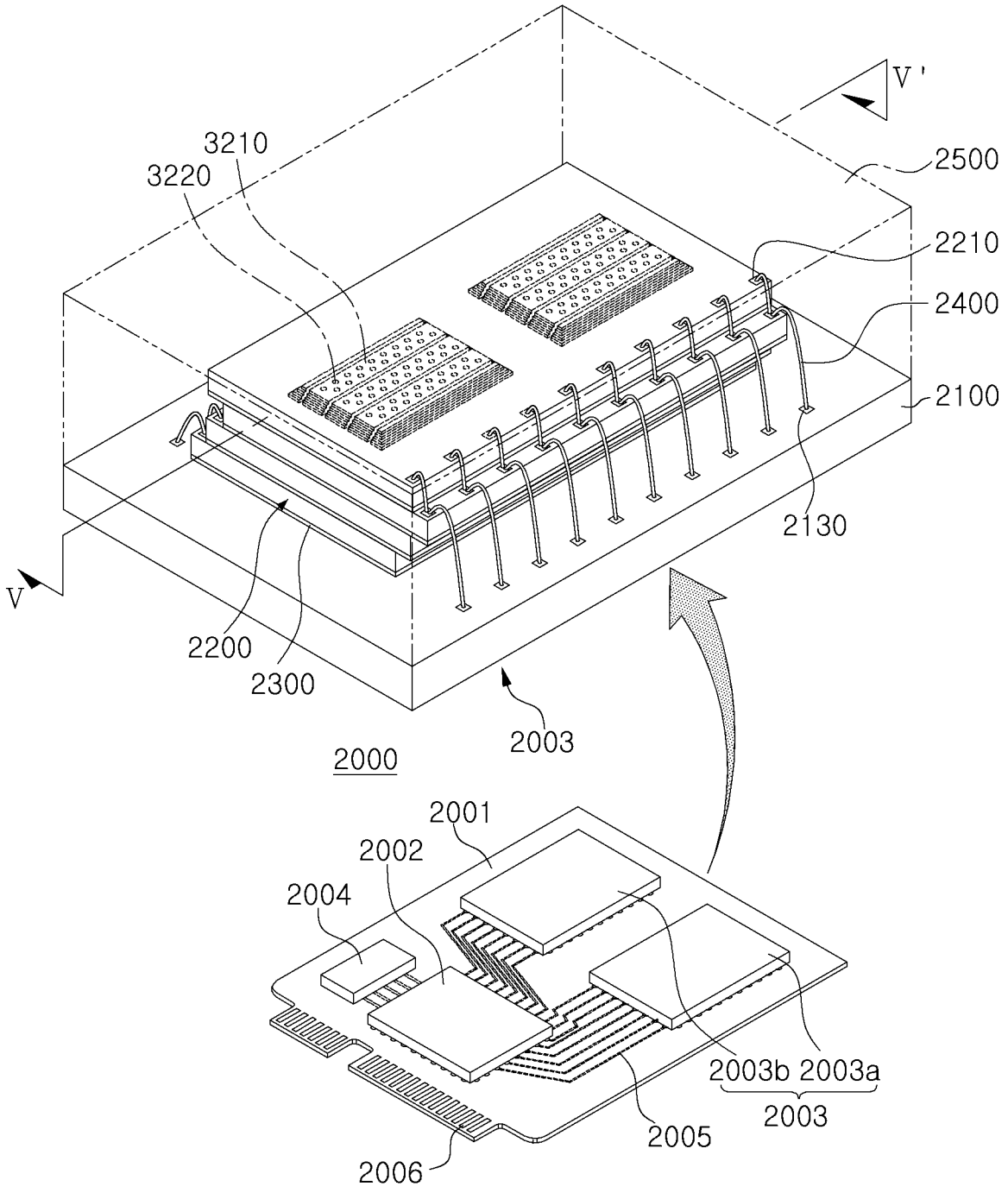

V '
3210
3220
2500
2210
2400
2100
2130
V
2200
2300
2003
2000
2001
2002
2004
2003b 2003a
2003
2005
2006

FIG. 17

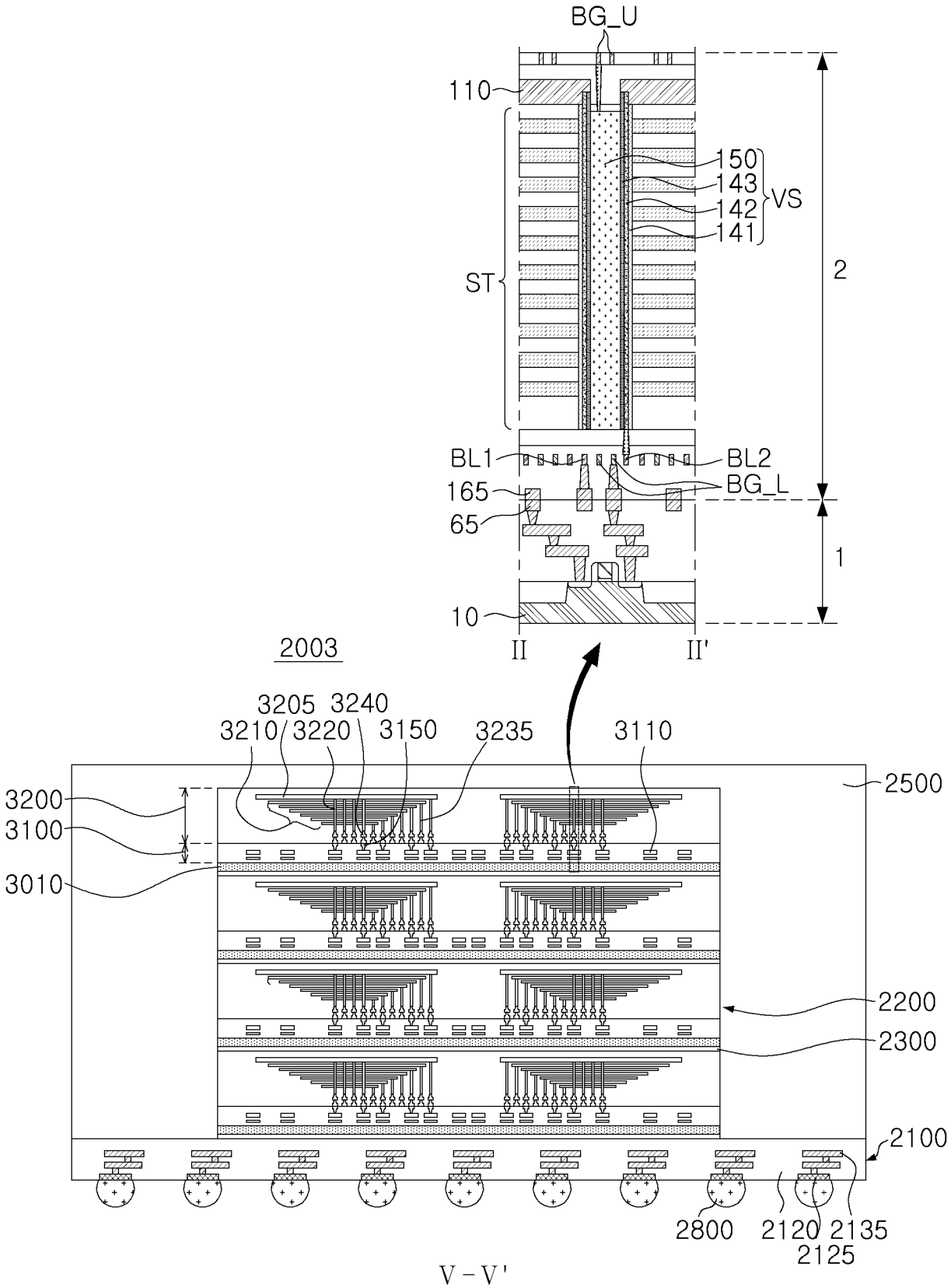

BG_U
110
150
143
142
141
VS
ST
2
BL1
BL2
BG_L
165
65
1
10
II
II'
2003
3205
3240
3210
3220
3150
3235
3110
2500
3200
3100
3010
2200
2300
2100
2800
2120
2135
2125
V-V'

FIG. 18