FIG. 1

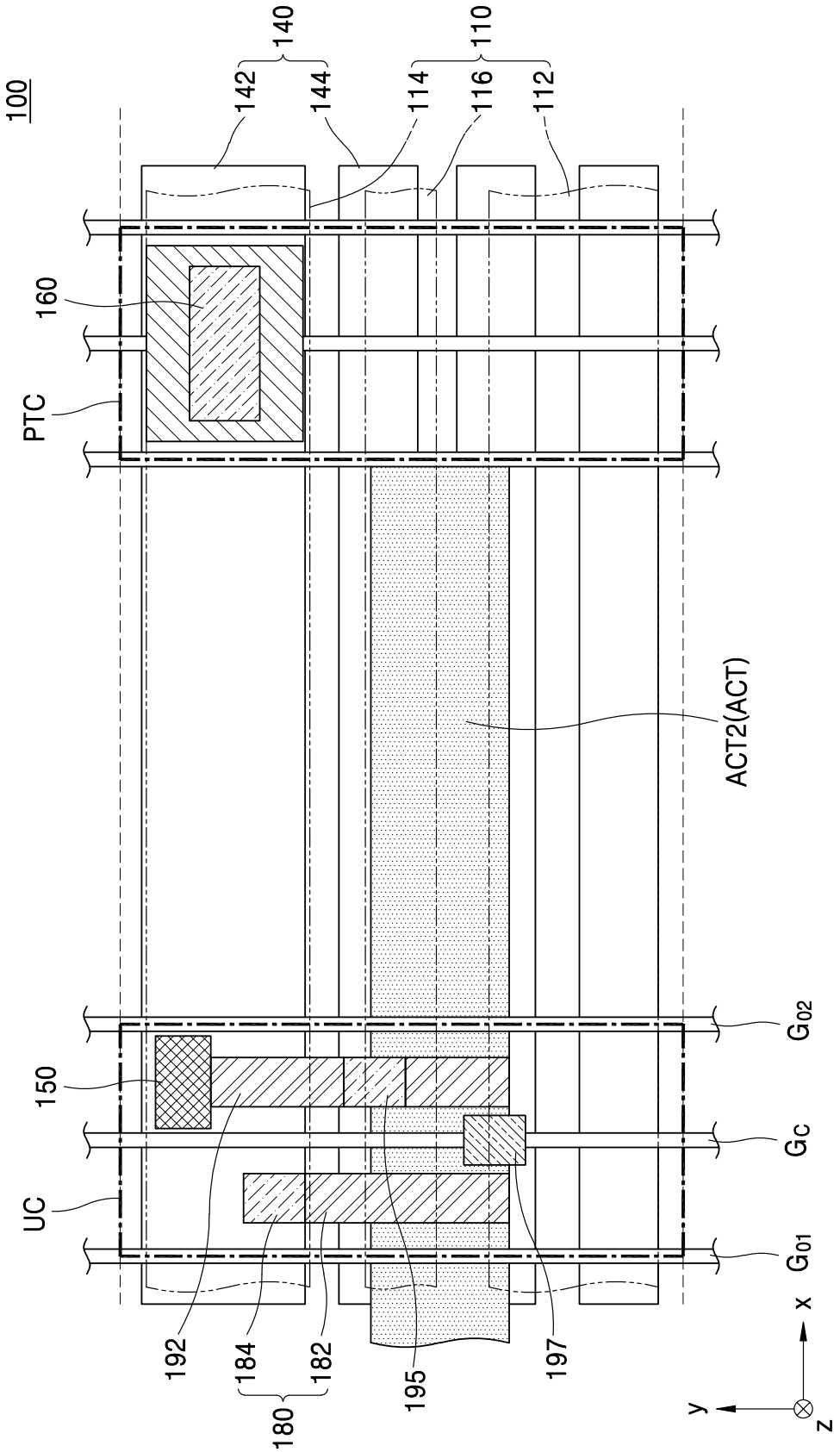

100
140
142
144
110
114
116
112
160
PTC
ACT2(ACT)
150
UC
G02
GC
G01
192
184
182
180
195
197
x
y
z

FIG. 2A

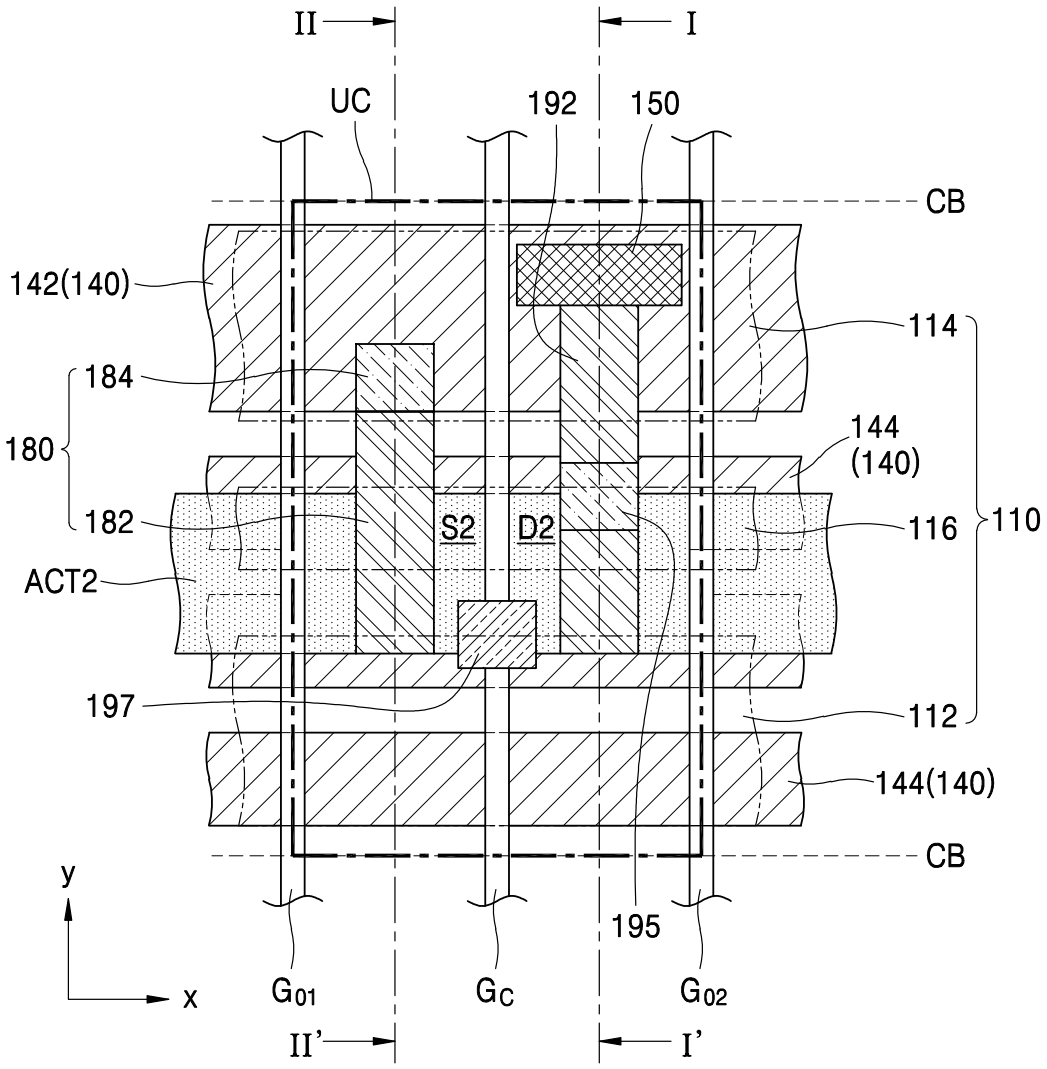

II
I
UC
192
150
CB
142(140)
114
184
180
144
(140)
182
S2
D2
116
110
ACT2
197
112
144(140)
CB
y
x
195
G_{01}
G_C
G_{02}
II'
I'

FIG. 2B

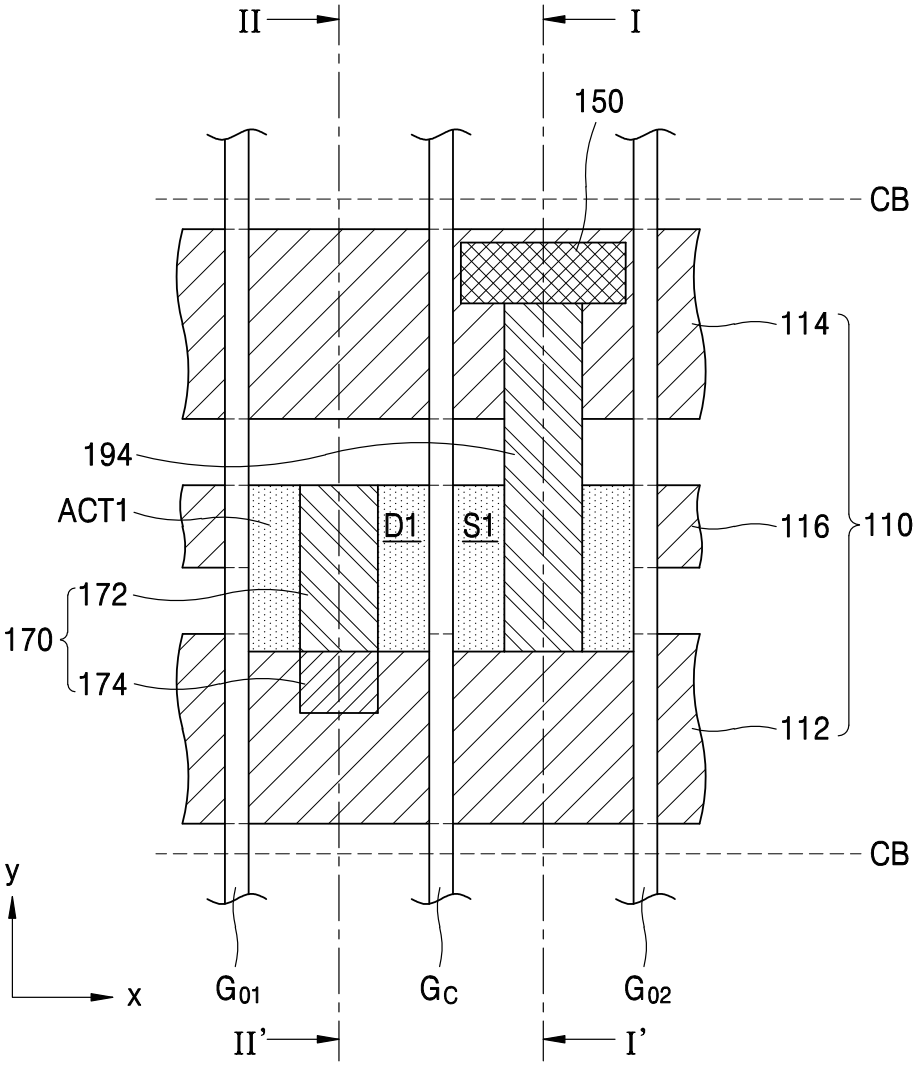

II
I
150
CB
114
194
ACT1
D1
S1
116
110
172
170
174
112
CB
y
x
G01
GC
G02
II'
I'

FIG. 3A

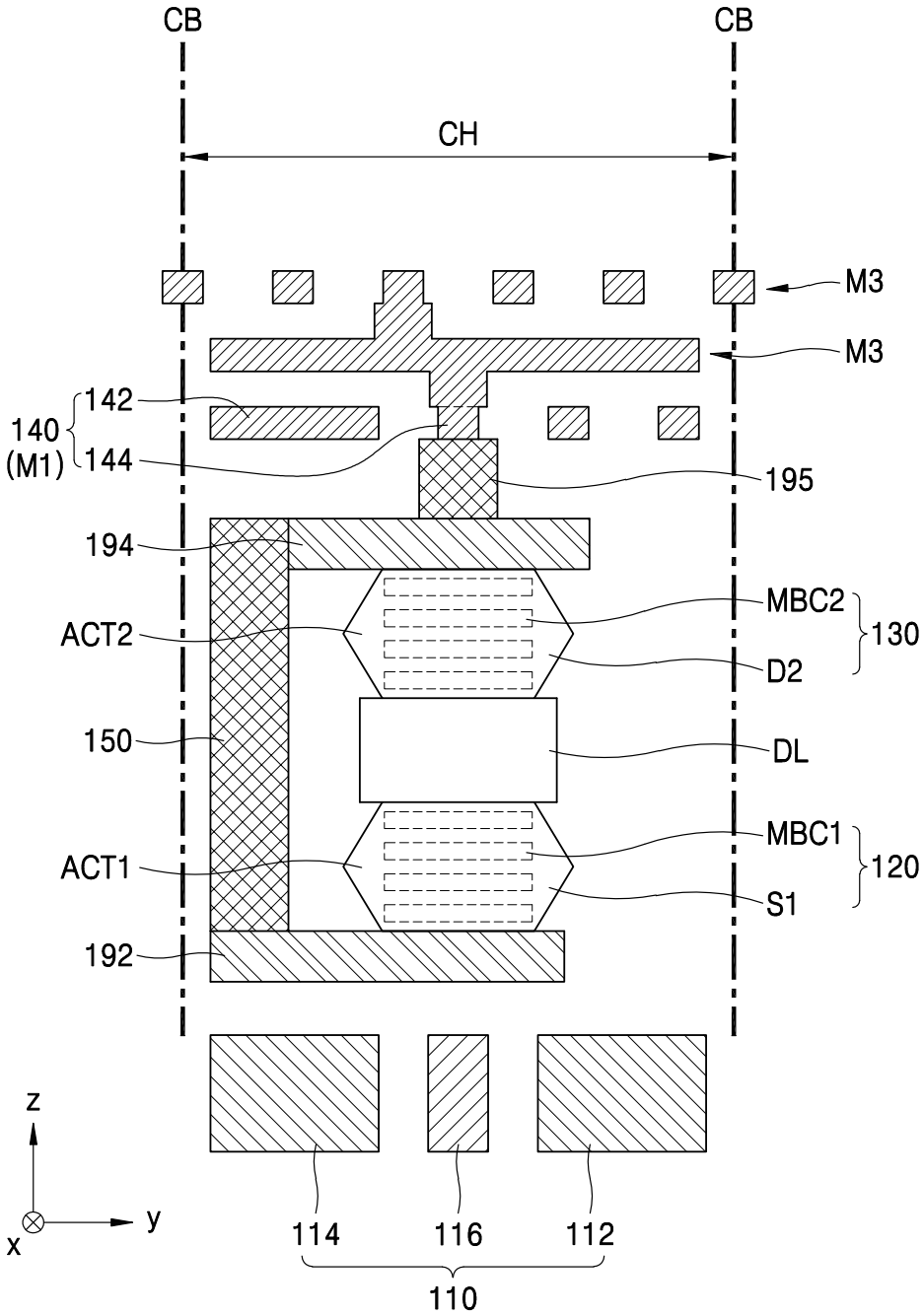

CB
CB
CH
M3
M3
142
140
(M1)
144
195
194
MBC2
130
ACT2
D2
150
DL
MBC1
120
ACT1
S1
192
z
y
x
114
116
112
110

FIG. 3B

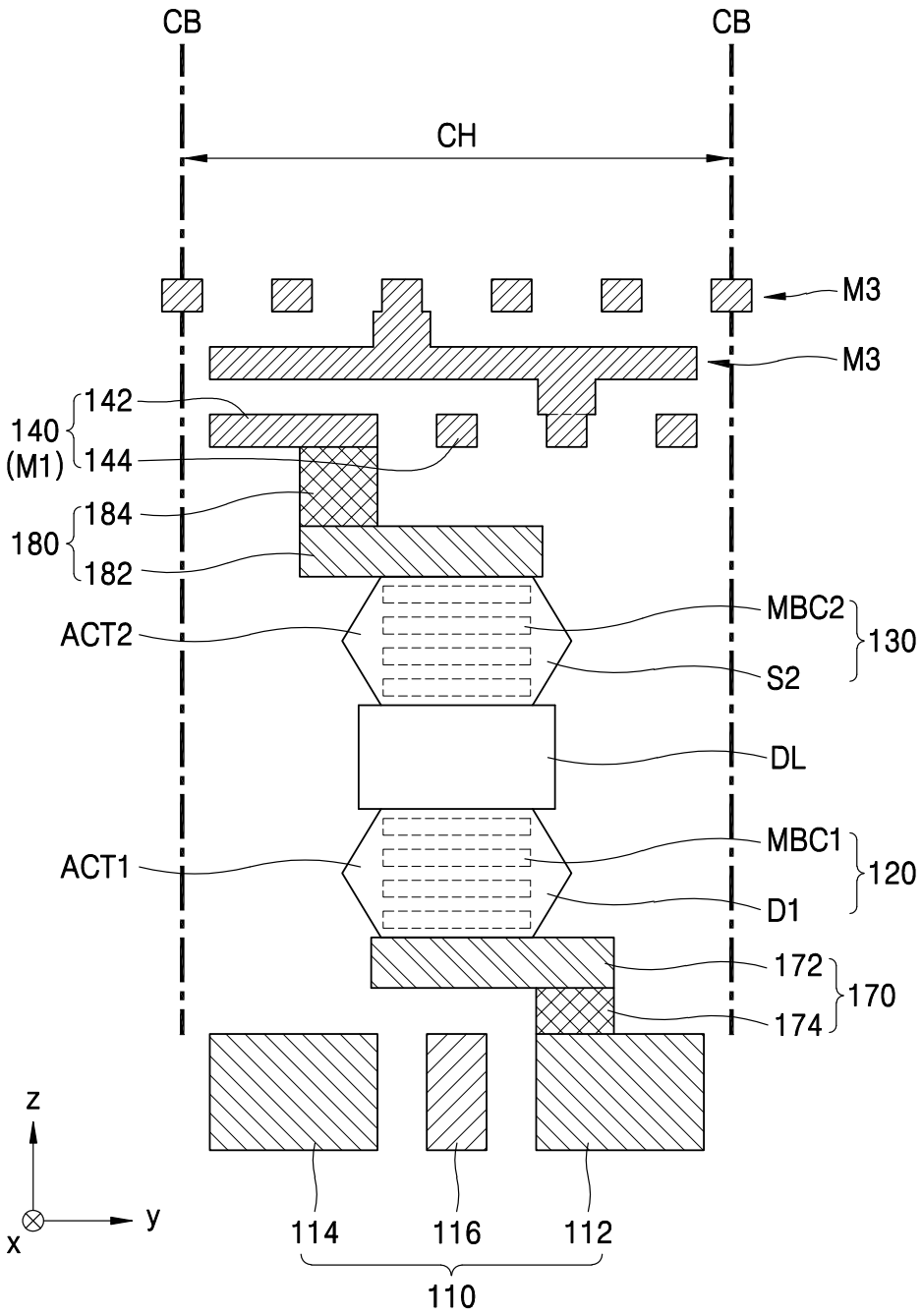

CB
CB
CH
M3
M3
142
140
(M1)
144
184
180
182
MBC2
130
ACT2
S2
DL
MBC1
120
ACT1
D1
172
170
174
z
y
x
114
116
112
110

FIG. 4A

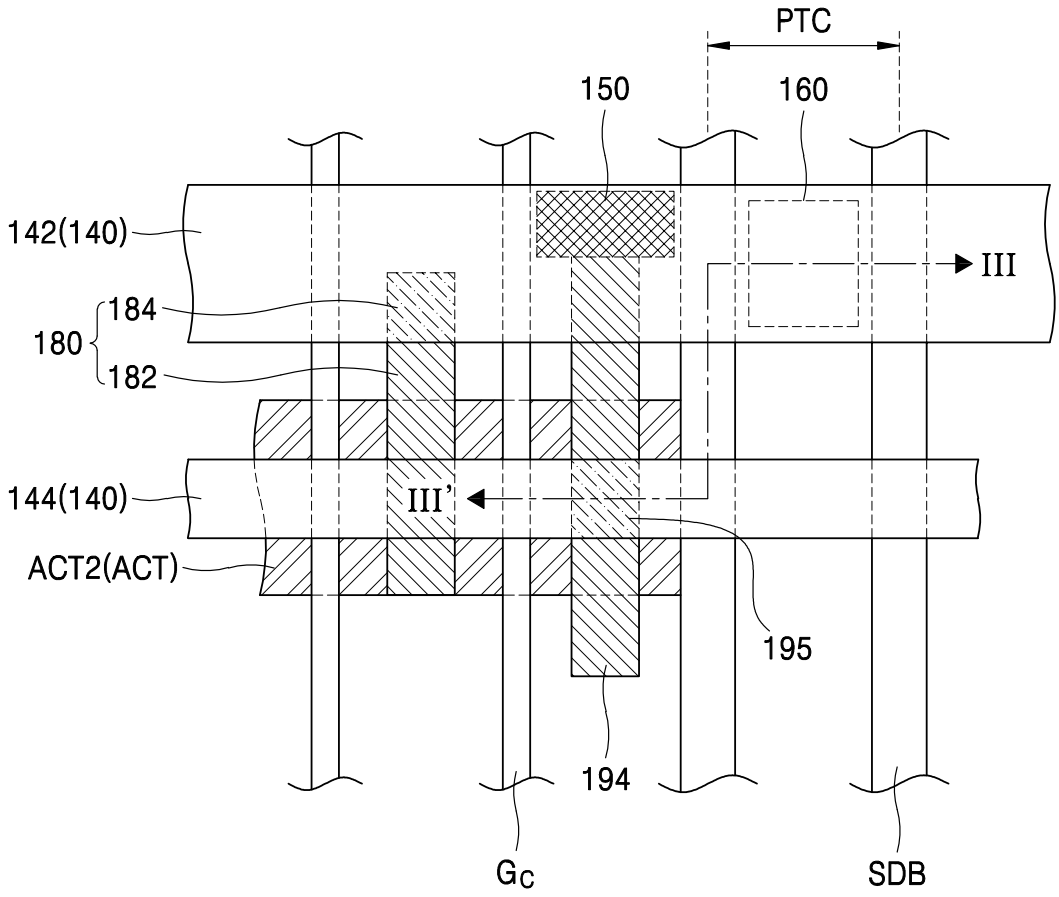

PTC
150
160
142(140)
III
184
180
182
144(140)
III'
ACT2(ACT)
195
194
G_C
SDB

FIG. 4B

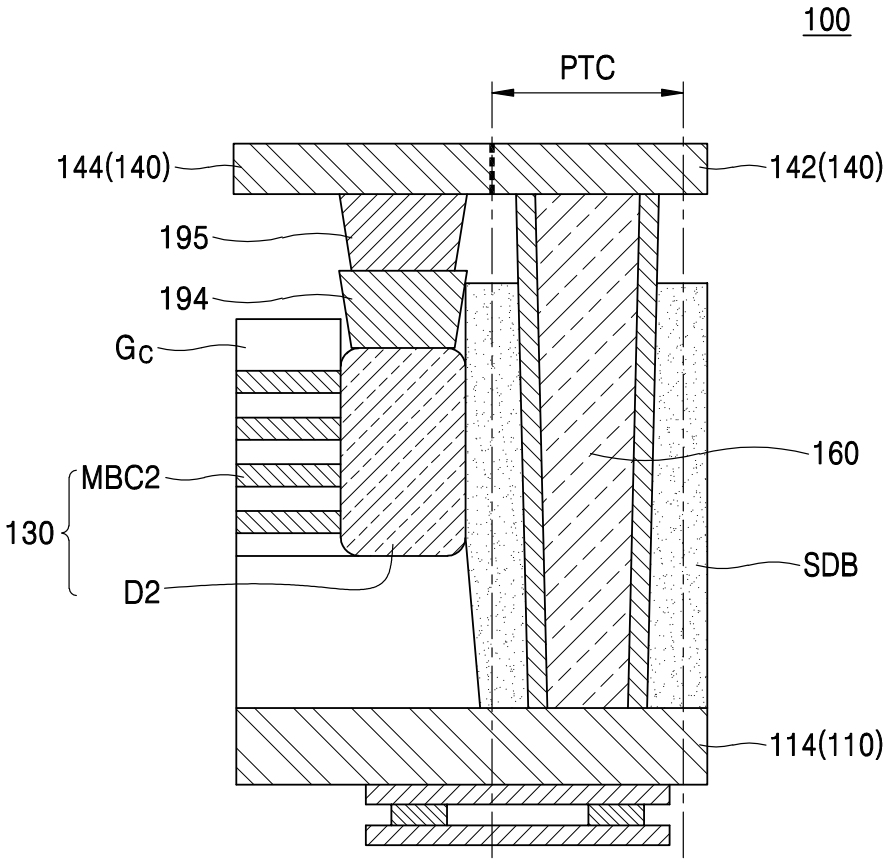


FIG. 5

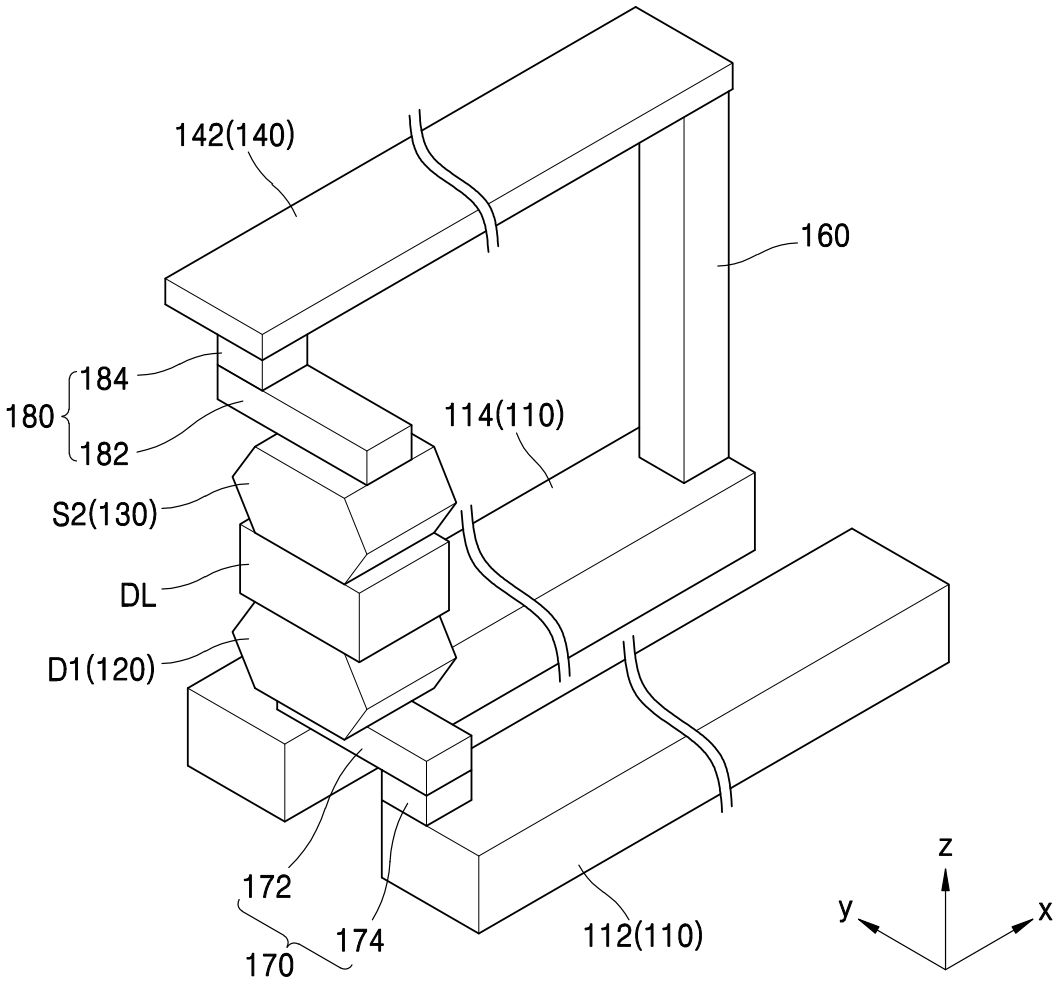

142(140)
160
184
180
182
114(110)
S2(130)
DL
D1(120)
172
174
170
112(110)
z
y
x

FIG. 6A

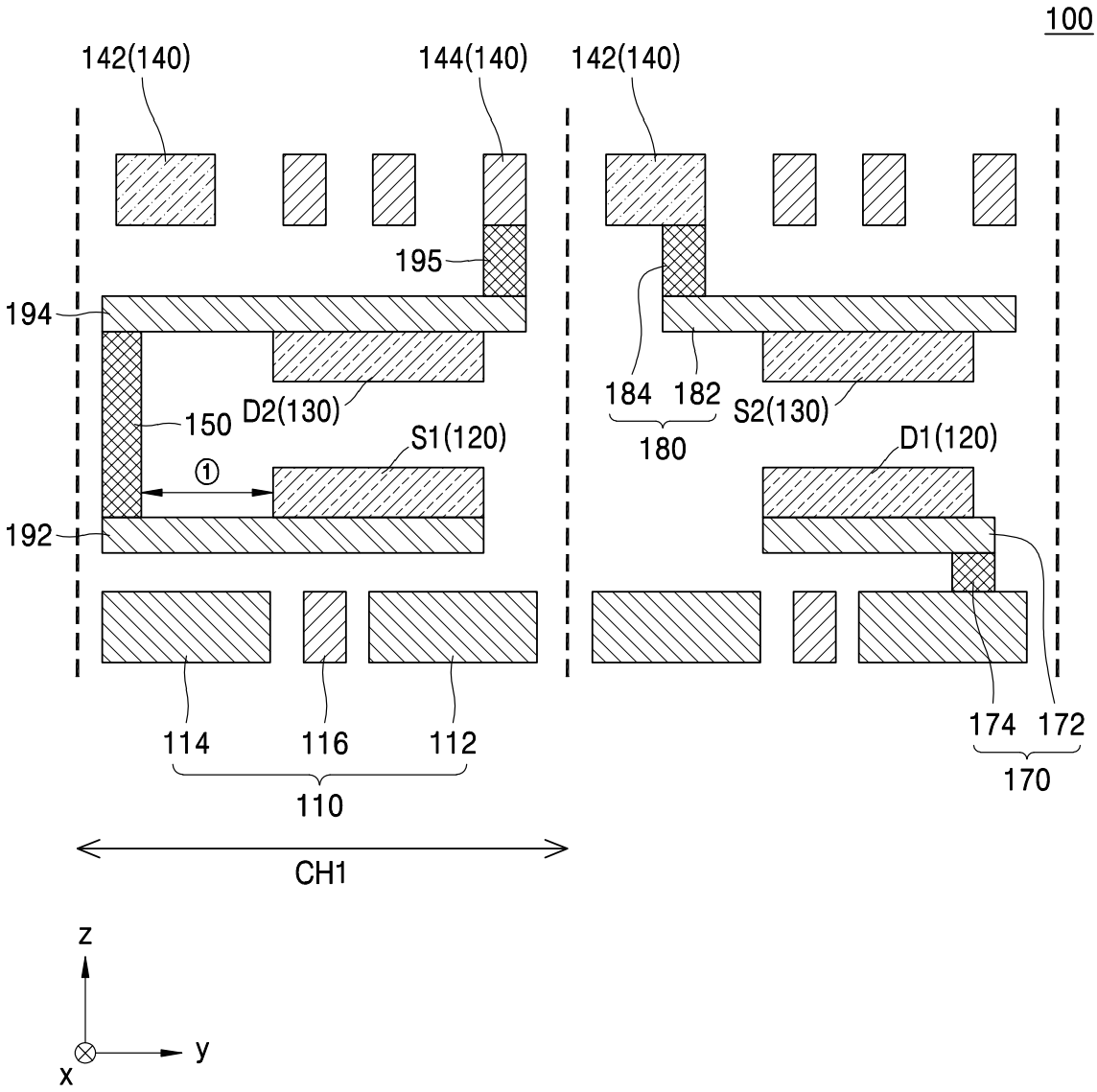

100
142(140)
144(140)
142(140)
195
194
184
182
150
D2(130)
S2(130)
180
S1(120)
D1(120)
①
192
114
116
112
174
172
170
110
CH1
z
y
x

FIG. 6B

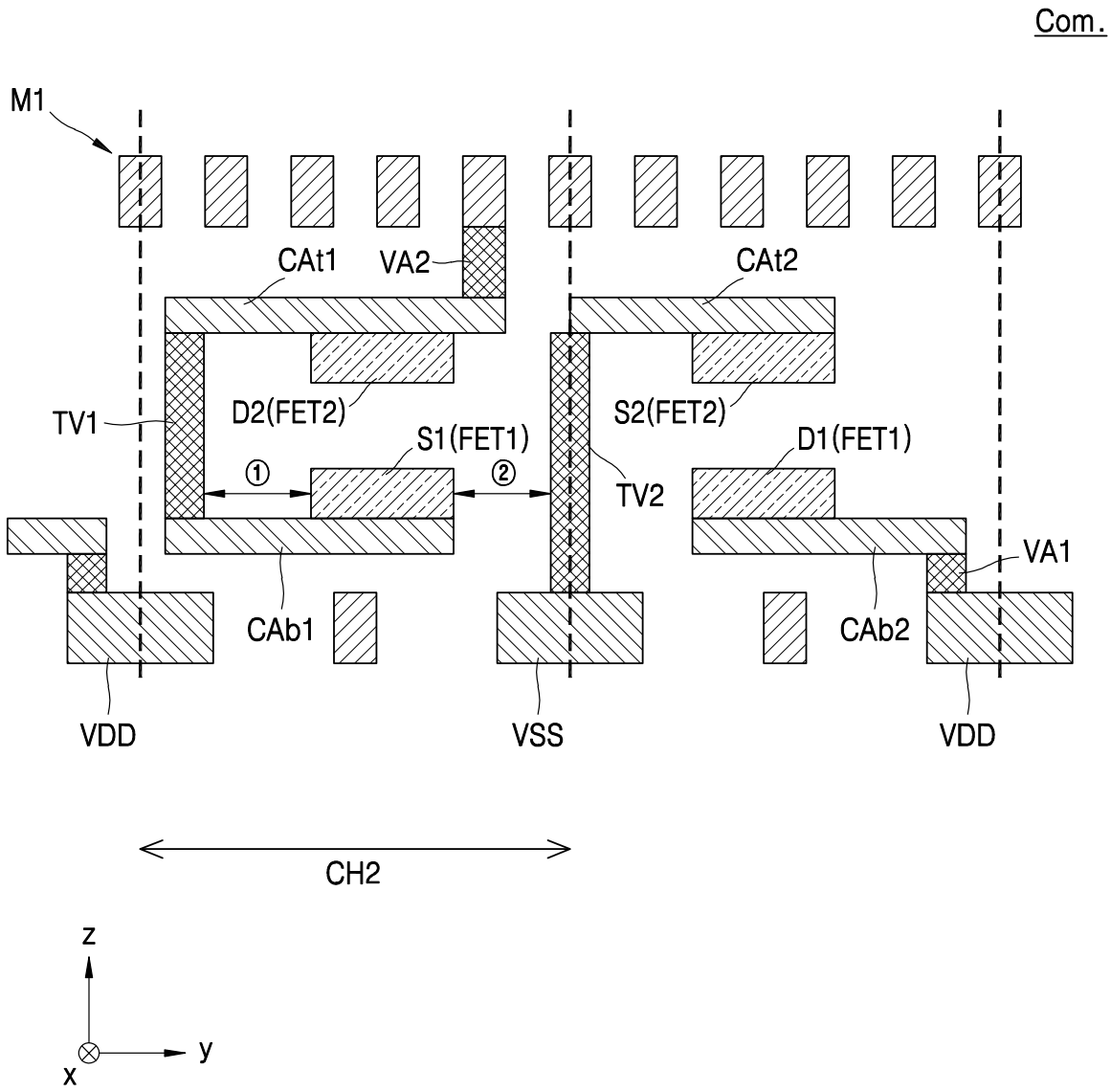

Com.
M1
CAt1
VA2
CAt2
TV1
D2(FET2)
S2(FET2)
S1(FET1)
D1(FET1)
①
②
TV2
VA1
CAb1
CAb2
VDD
VSS
VDD
CH2
z
y
x

FIG. 7A

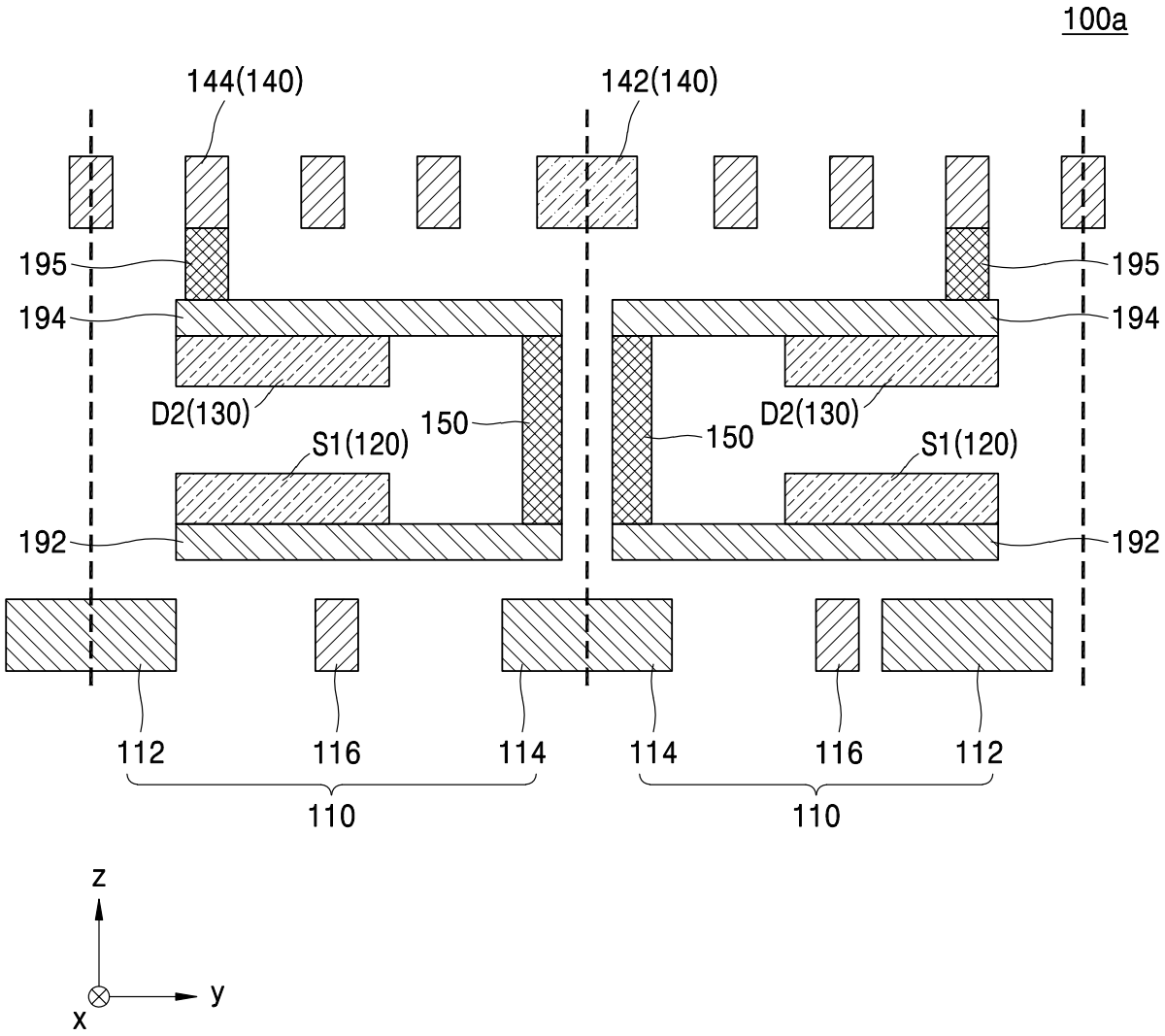

100a
144(140)
142(140)
195
195
194
194
D2(130)
D2(130)
150
150
S1(120)
S1(120)
192
192
112
116
114
114
116
112
110
110
z
y
x

FIG. 7B

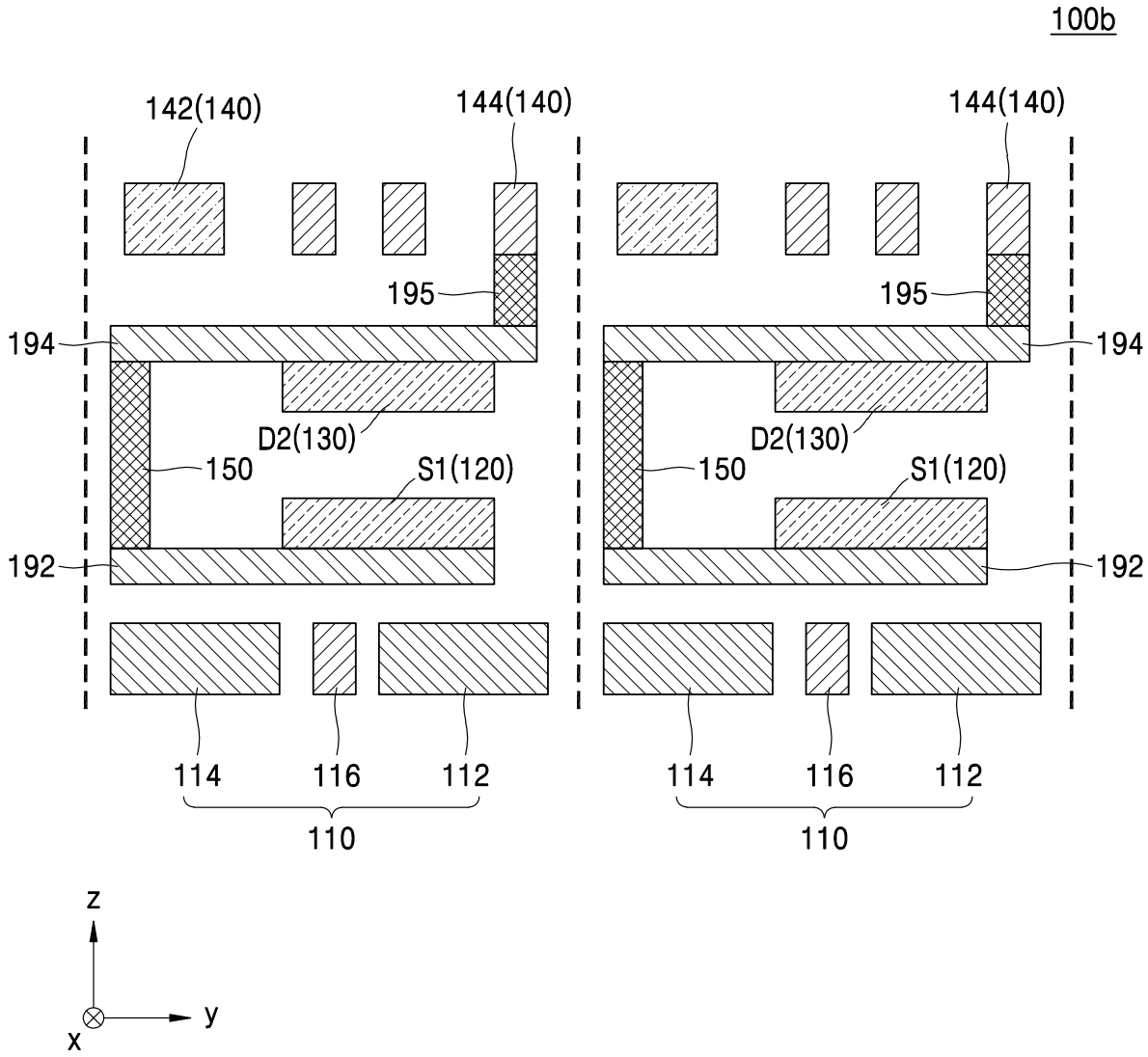

100b
142(140)
144(140)
144(140)
195
195
194
194
D2(130)
D2(130)
150
150
S1(120)
S1(120)
192
192
114
116
112
114
116
112
110
110
z
y
x

FIG. 8A

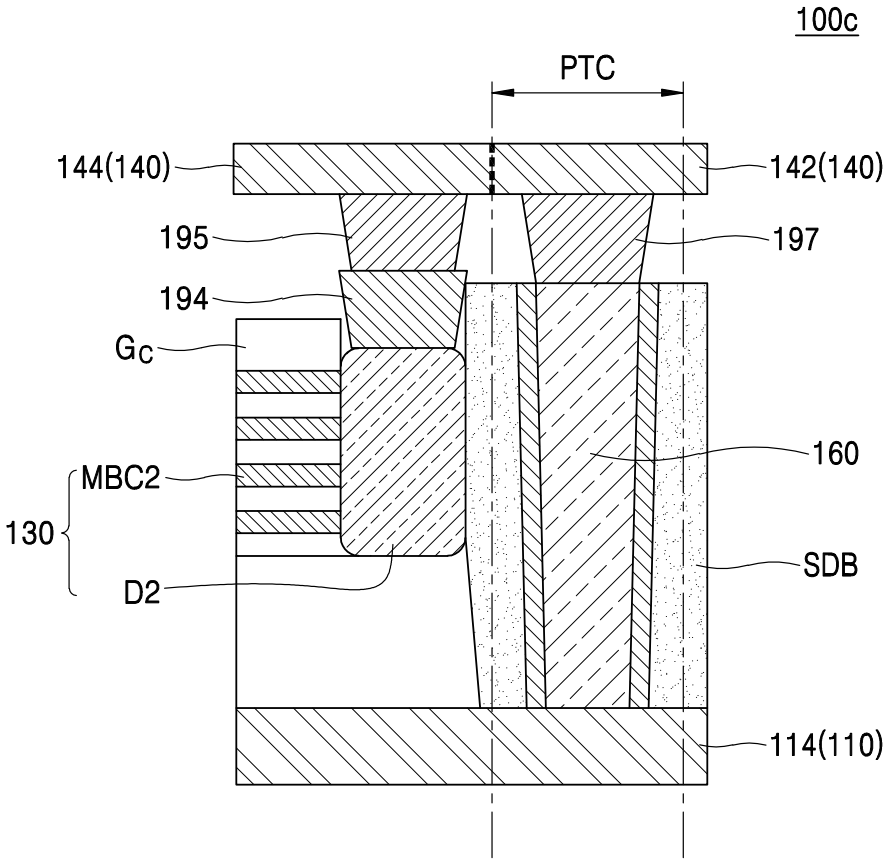

100c
PTC
144(140)
142(140)
195
197
194
Gc
160
MBC2
130
SDB
D2
114(110)

FIG. 8B

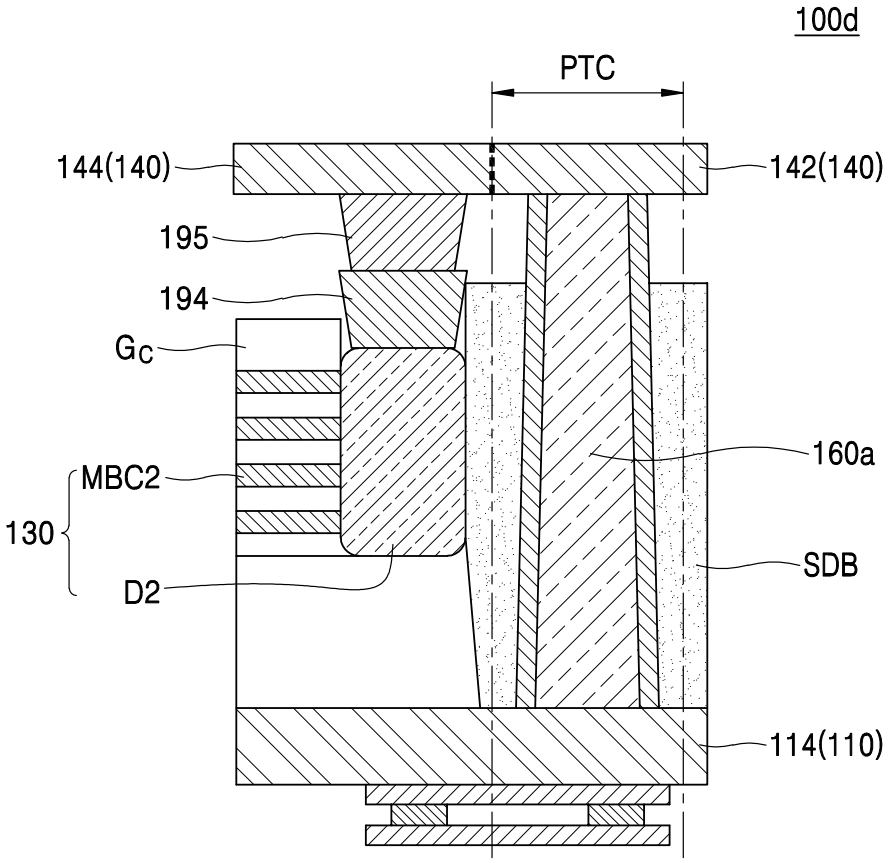
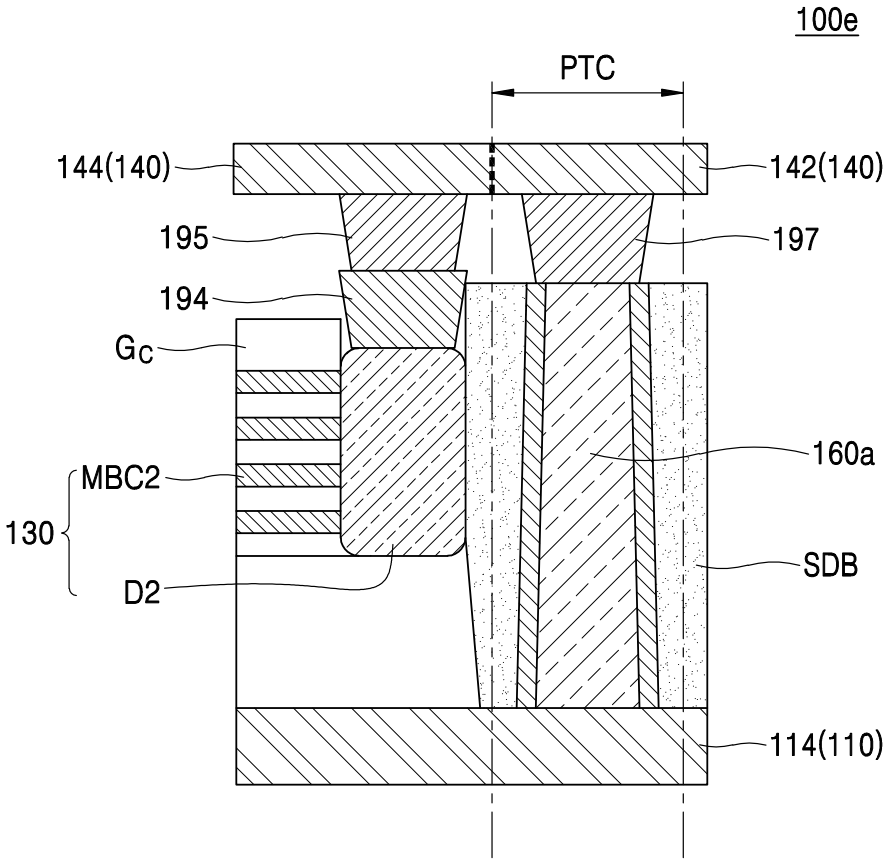


FIG. 8C


100e
PTC
144(140)
142(140)
195
197
194
Gc
160a
MBC2
130
SDB
D2
114(110)