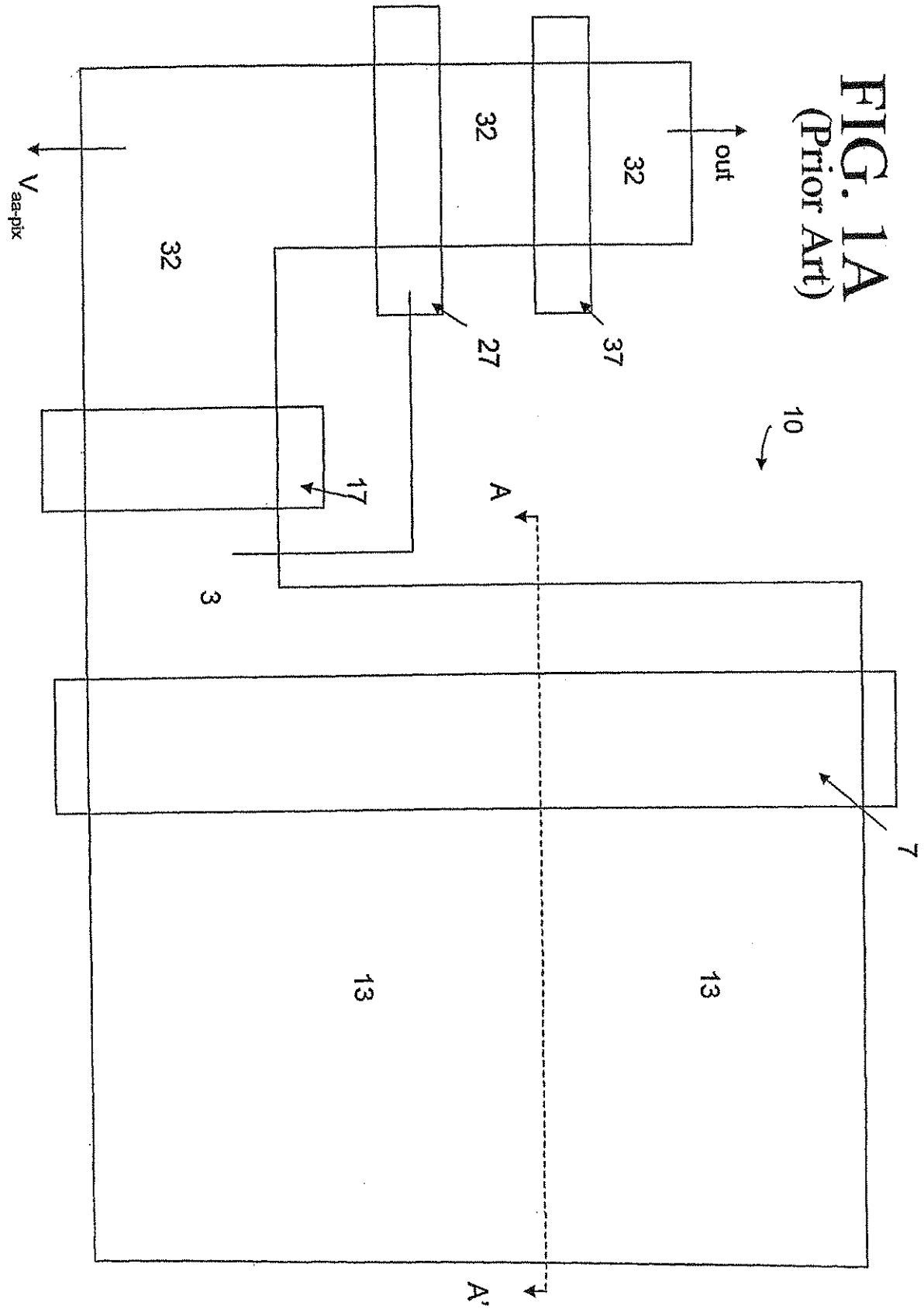


FIG. 1A
(Prior Art)

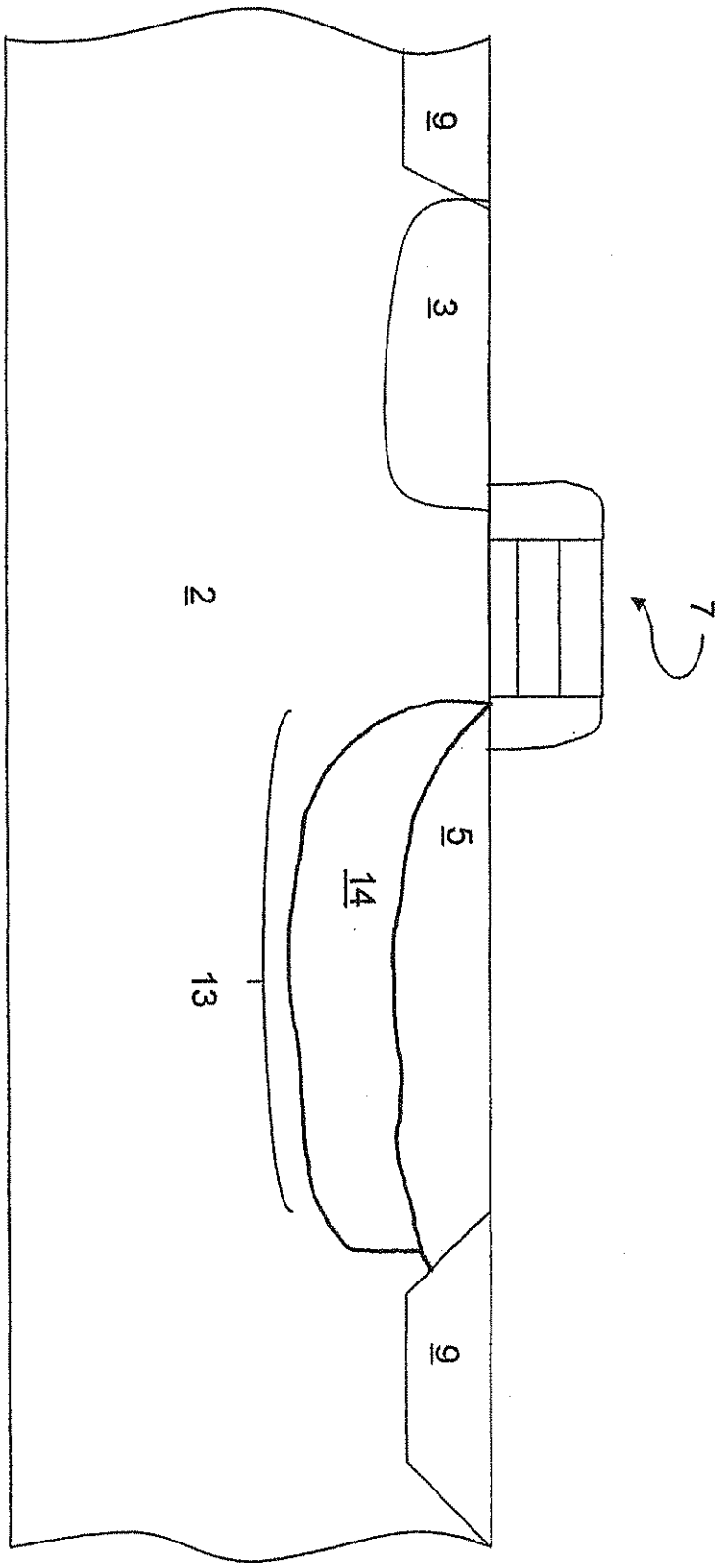
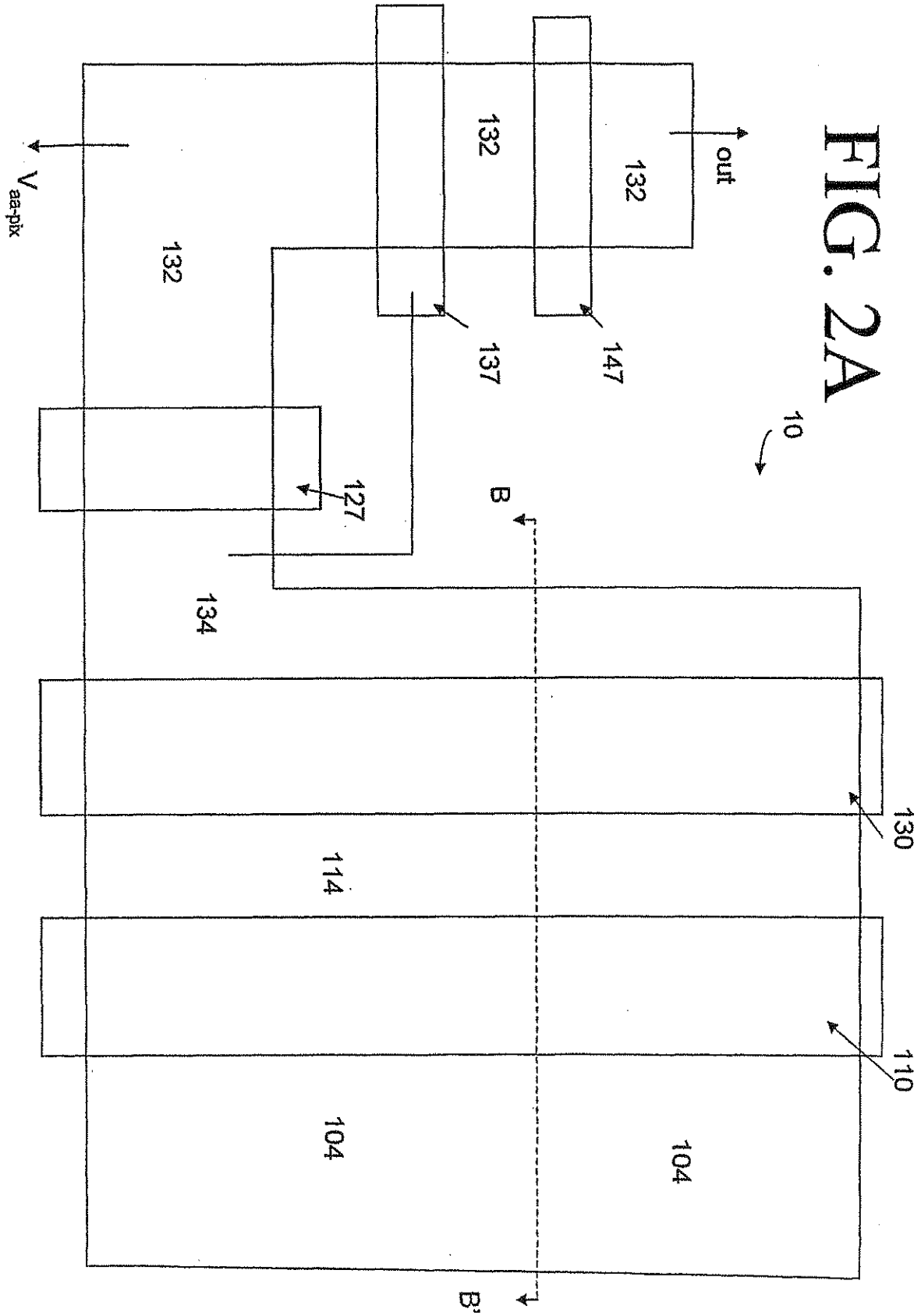


FIG. 1B

FIG. 2A


10
132
132
132
132
out
V_{aa-pix}
137
147
127
B
B'
134
130
114
110
104
104

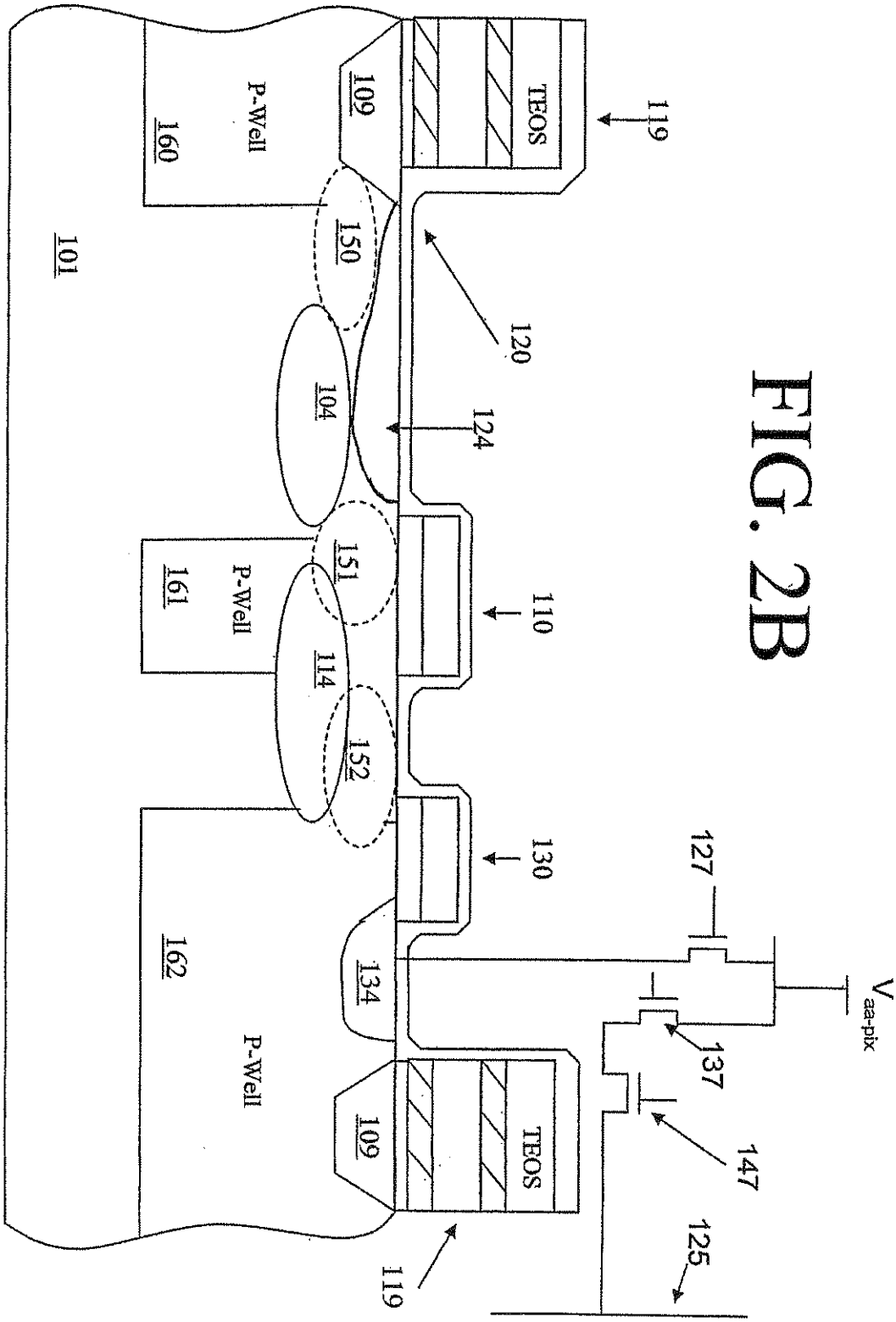
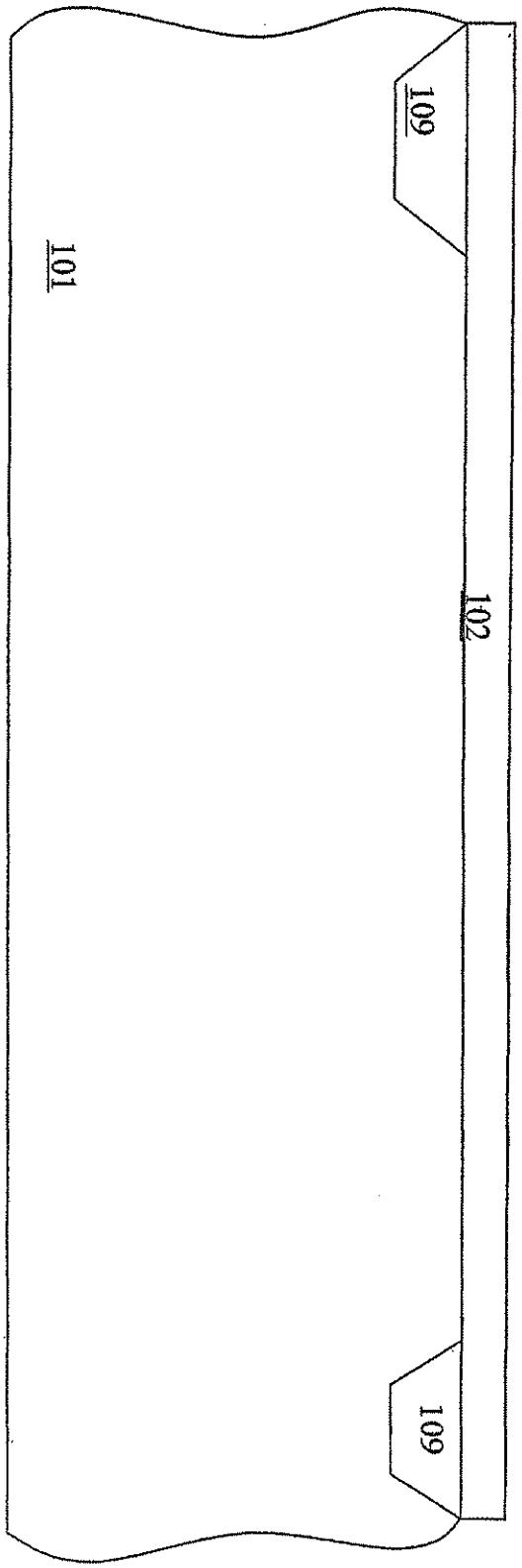

TEOS
119
P-Well
160
109
150
101
120
104
124
151
110
P-Well
161
114
152
130
127
162
134
P-Well
V_{aa-pix}
137
109
TEOS
147
125
119

FIG. 2B



100

FIG. 3A

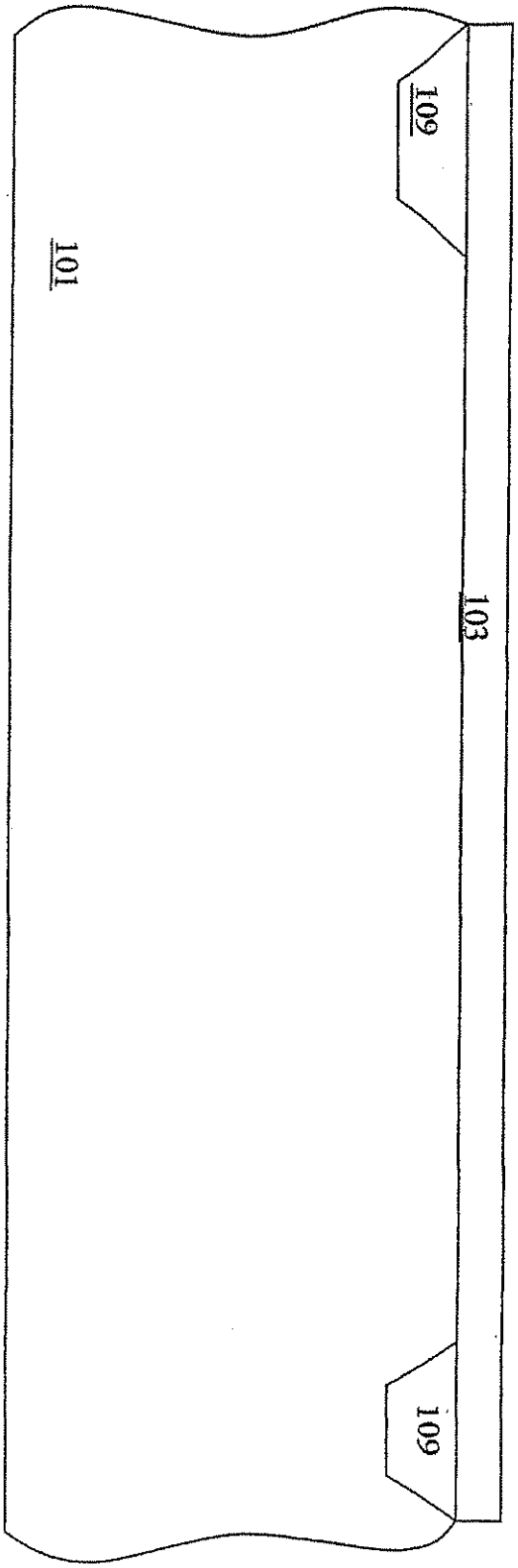


FIG. 3B

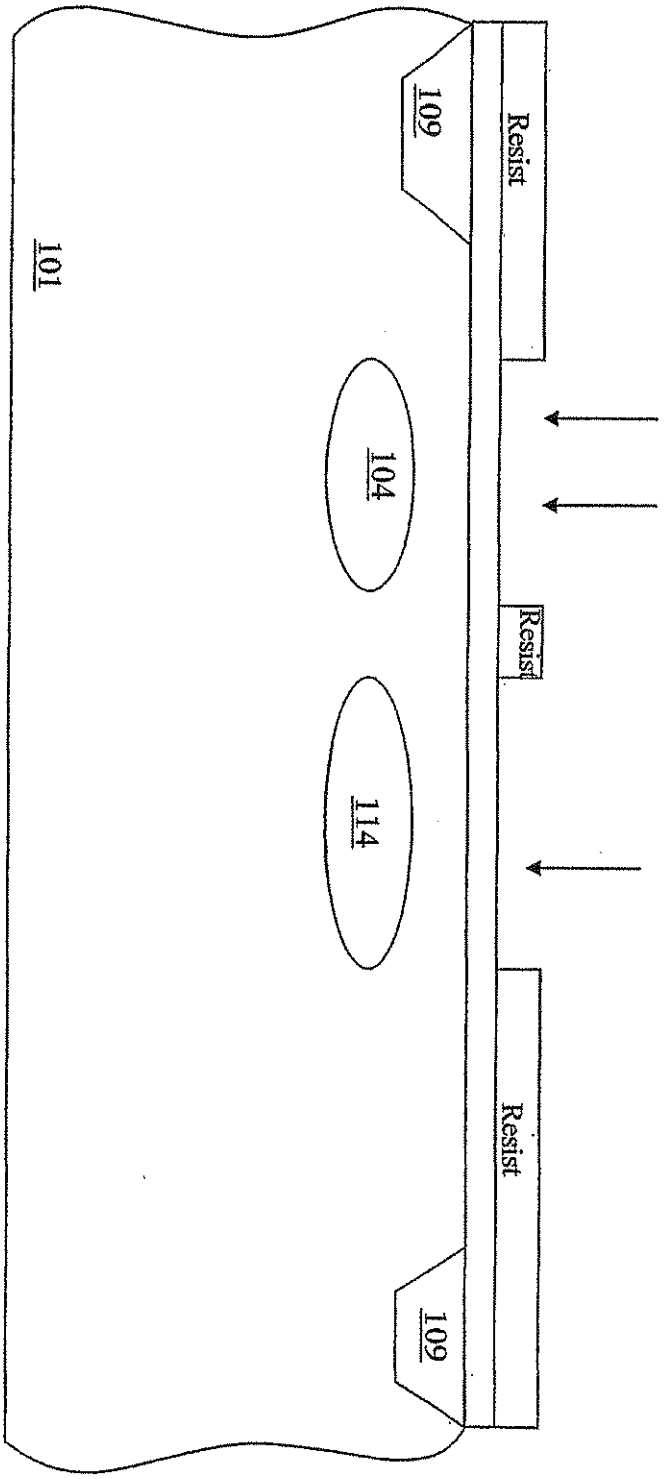


FIG. 4

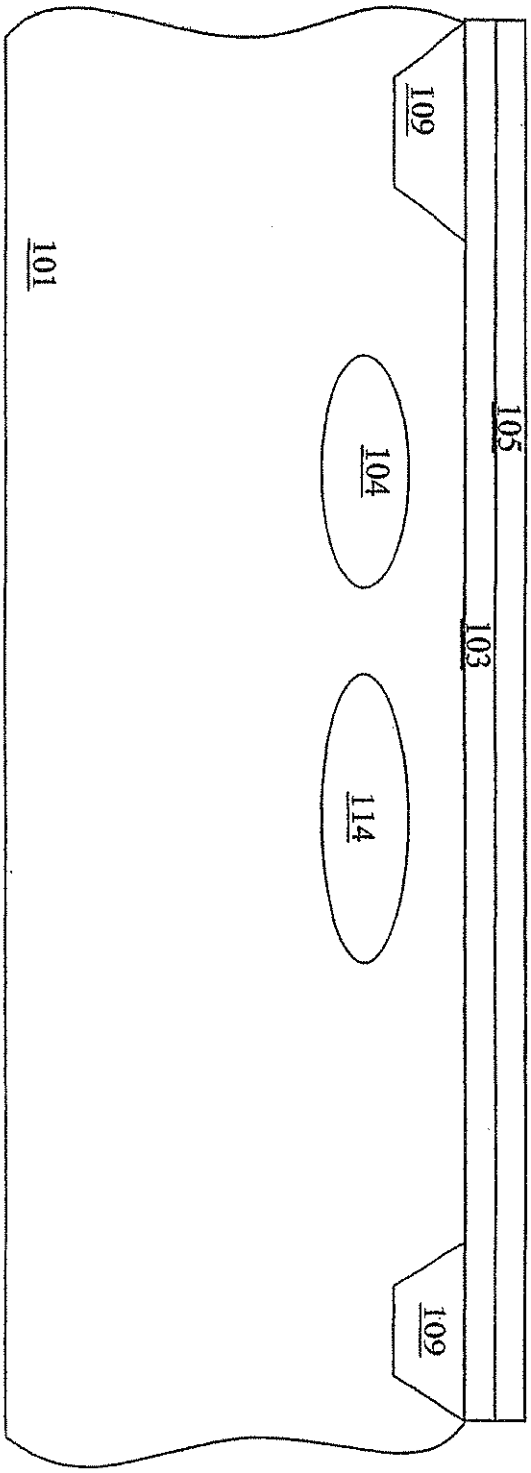


FIG. 5

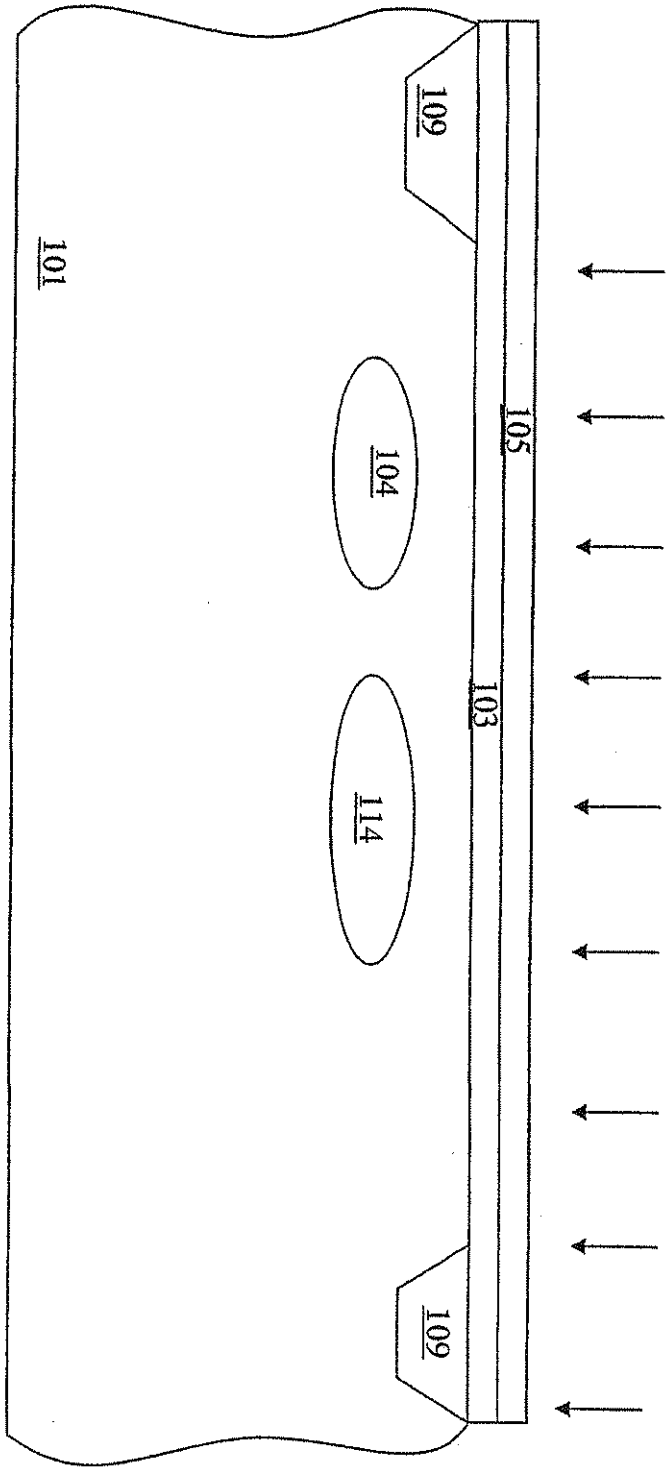


FIG. 6

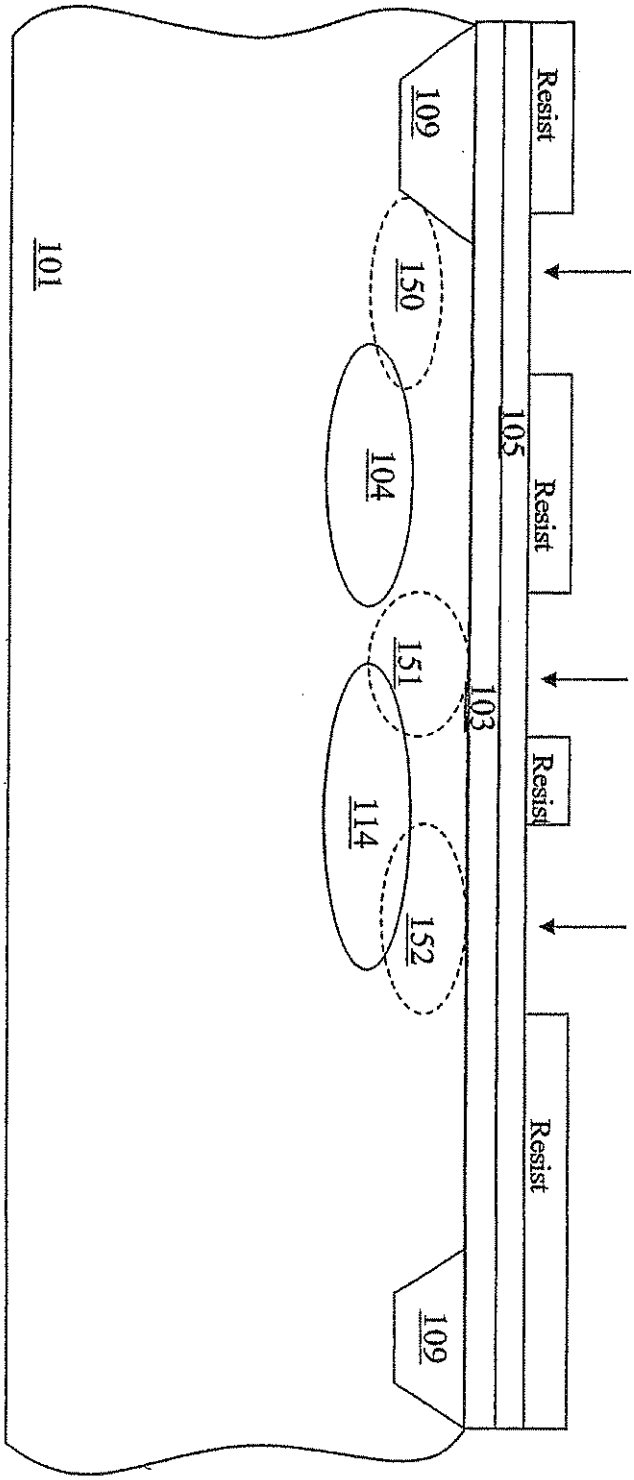

Resist
Resist
Resist
Resist
109
109
101
150
104
105
151
103
114
152

FIG. 7

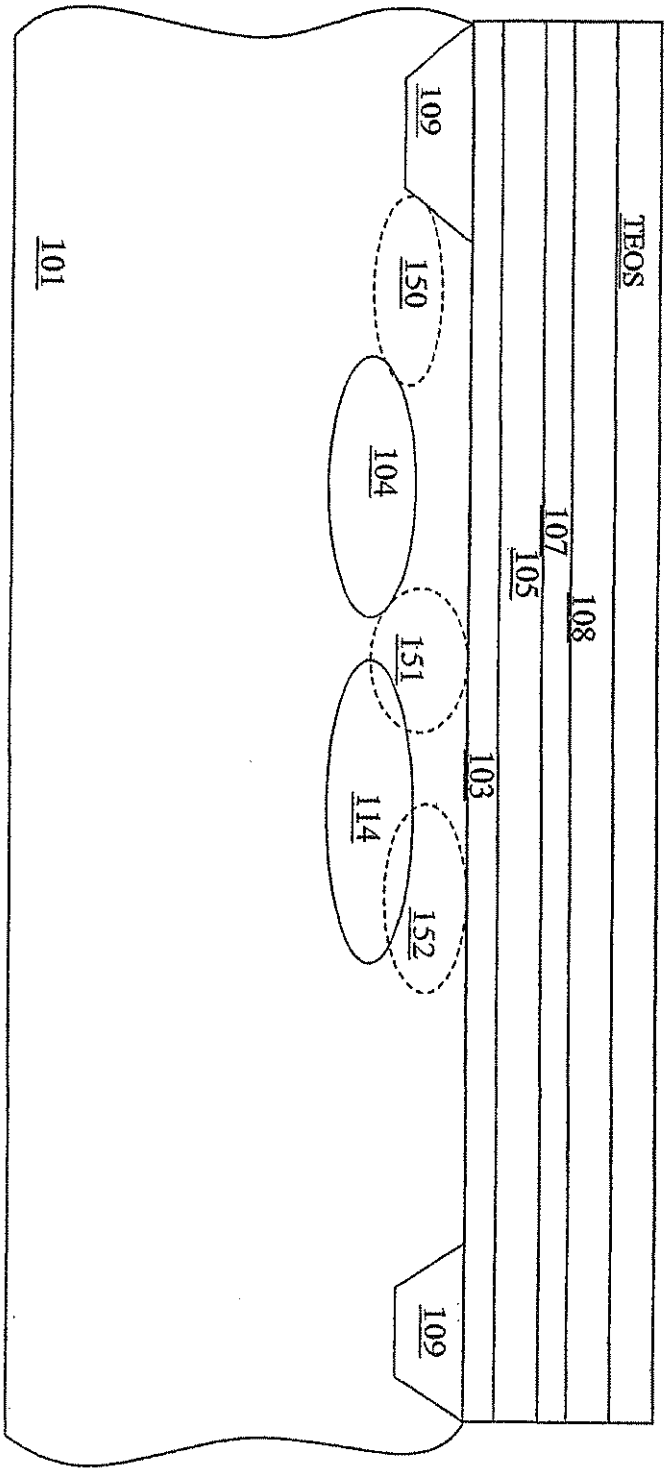


FIG. 8

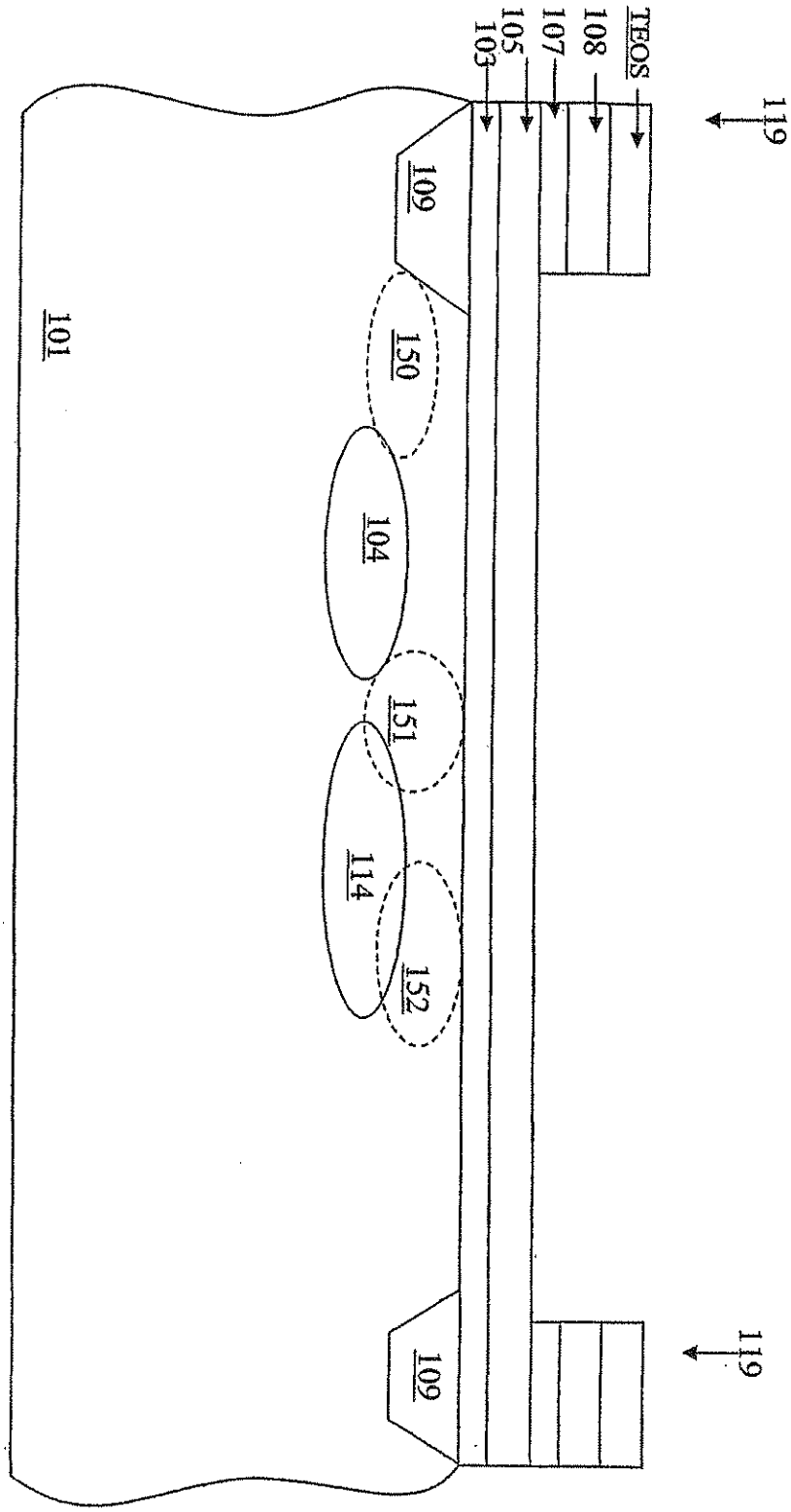


FIG. 9

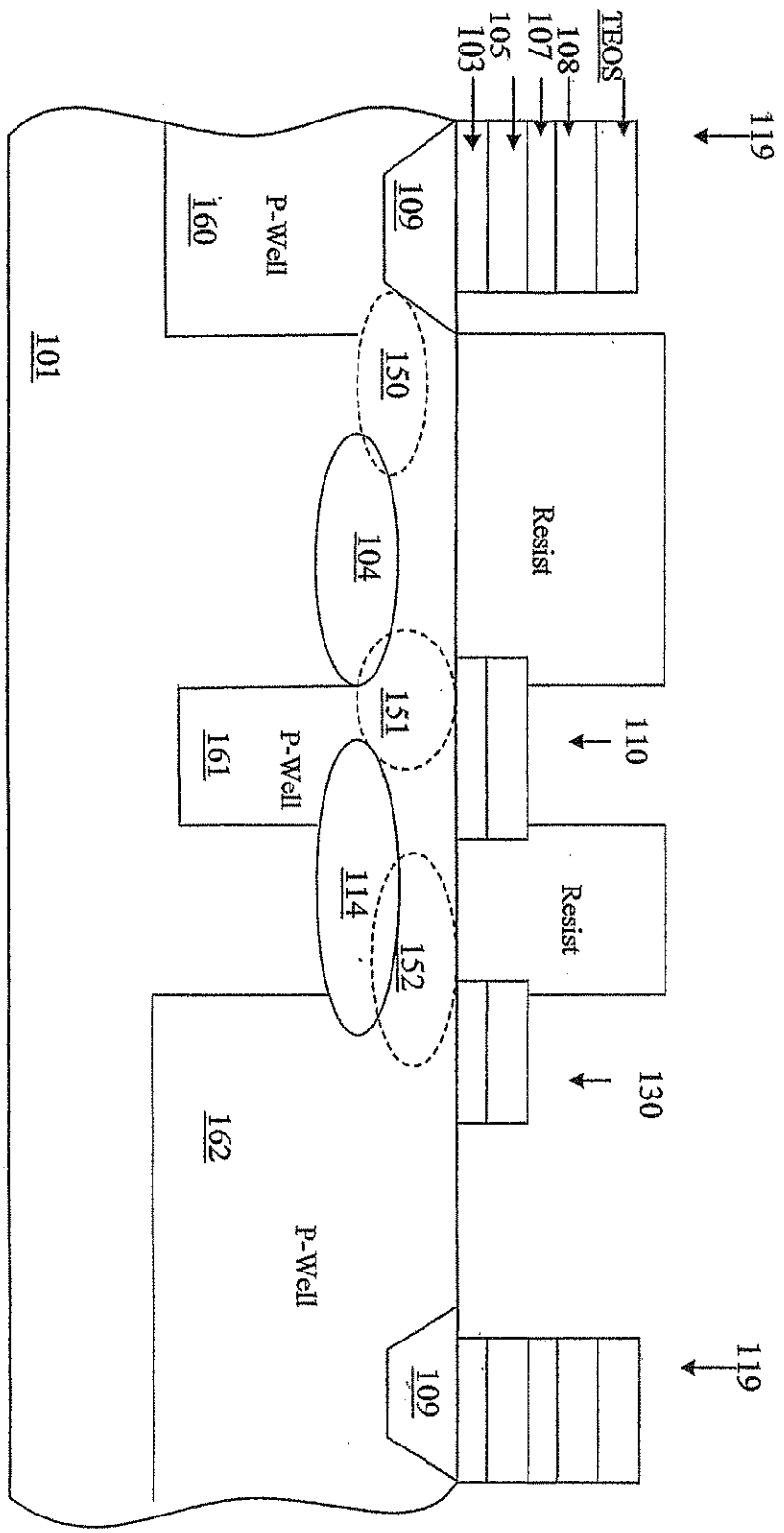

TEOS
108
107
105
103
119
109
P-Well
160
101
150
104
Resist
151
110
P-Well
161
114
152
Resist
130
162
P-Well
109
119

FIG. 10

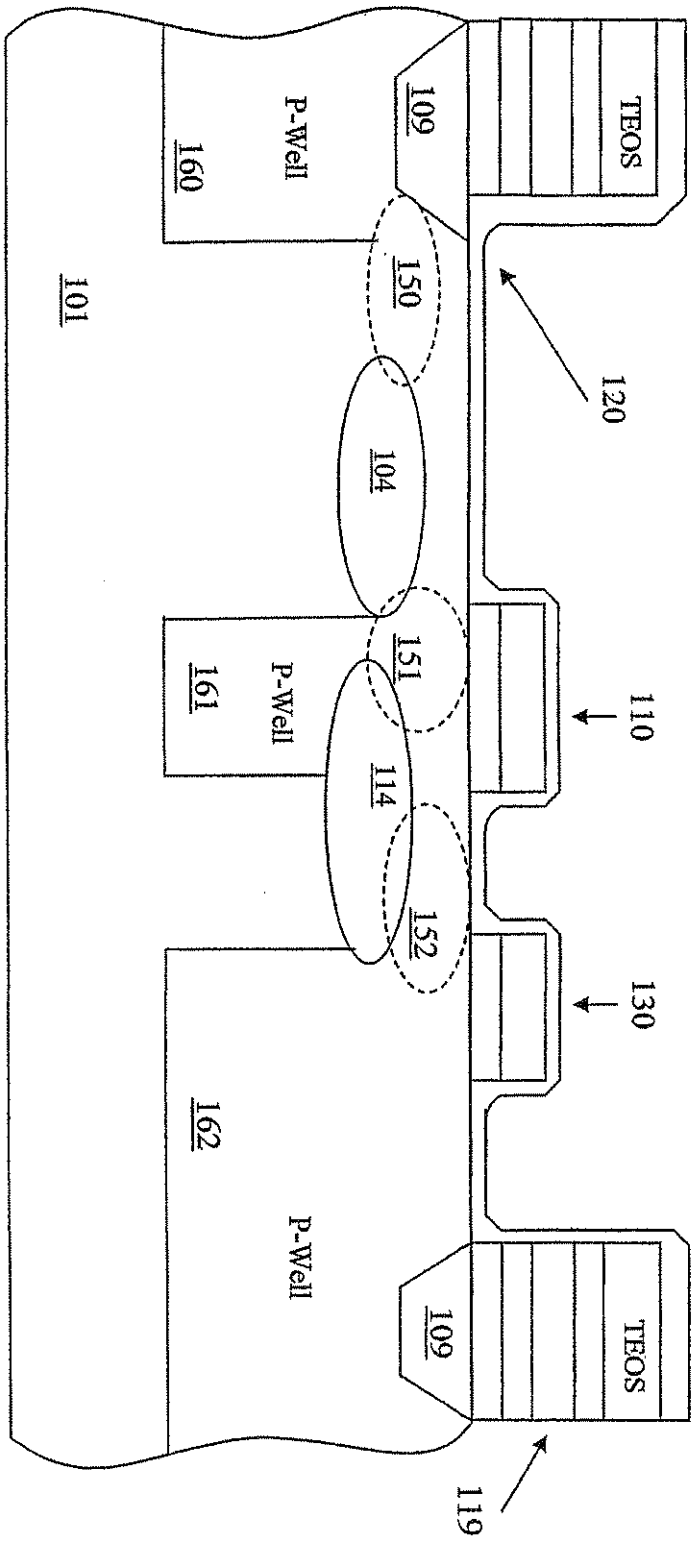

TEOS
109
P-Well
160
150
101
120
104
151
110
P-Well
161
114
152
130
162
P-Well
109
TEOS
119

FIG. 11

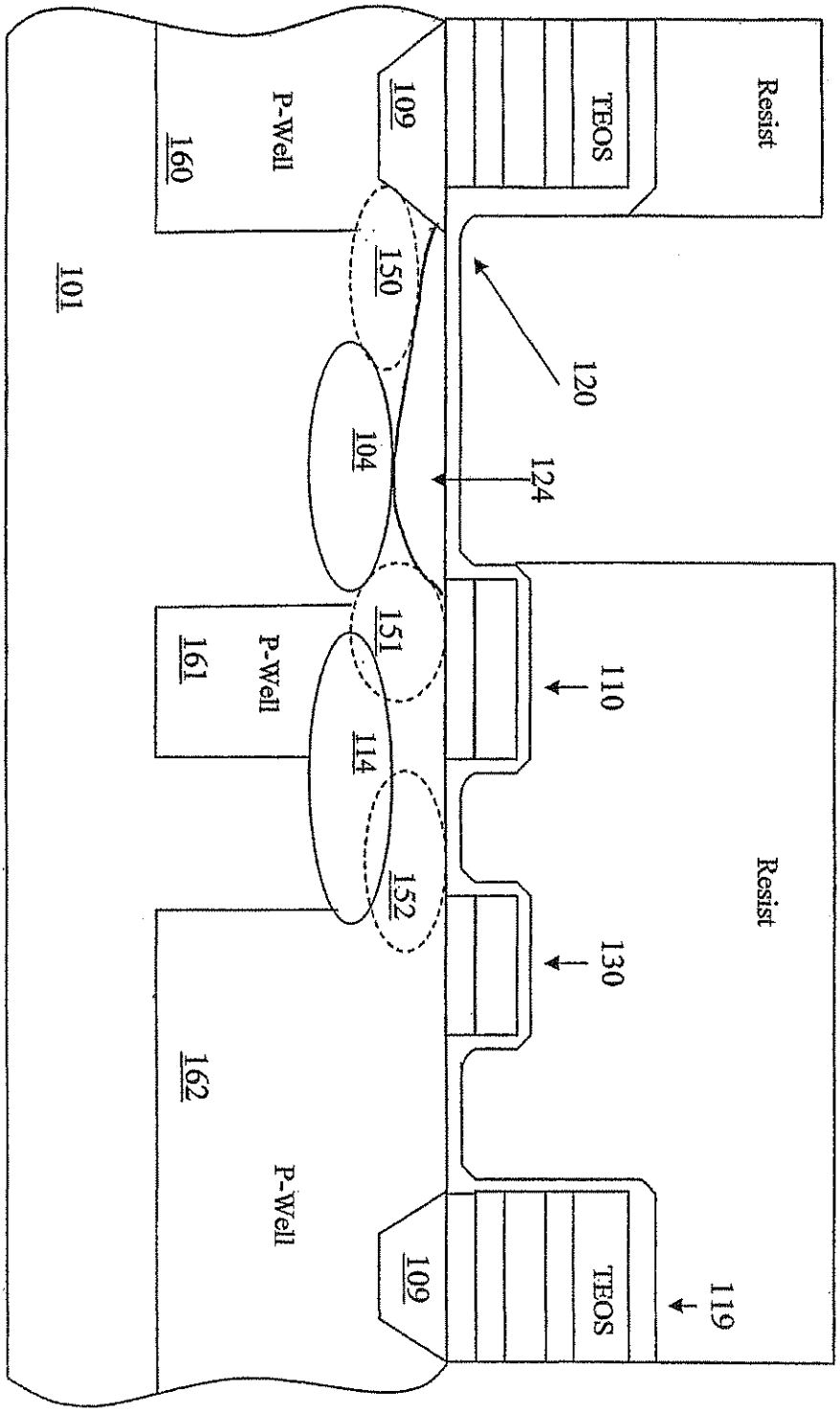

Resist
TEOS
109
P-Well
160
101
150
120
104
124
151
110
P-Well
161
114
152
Resist
130
162
P-Well
109
TEOS
119

FIG. 12

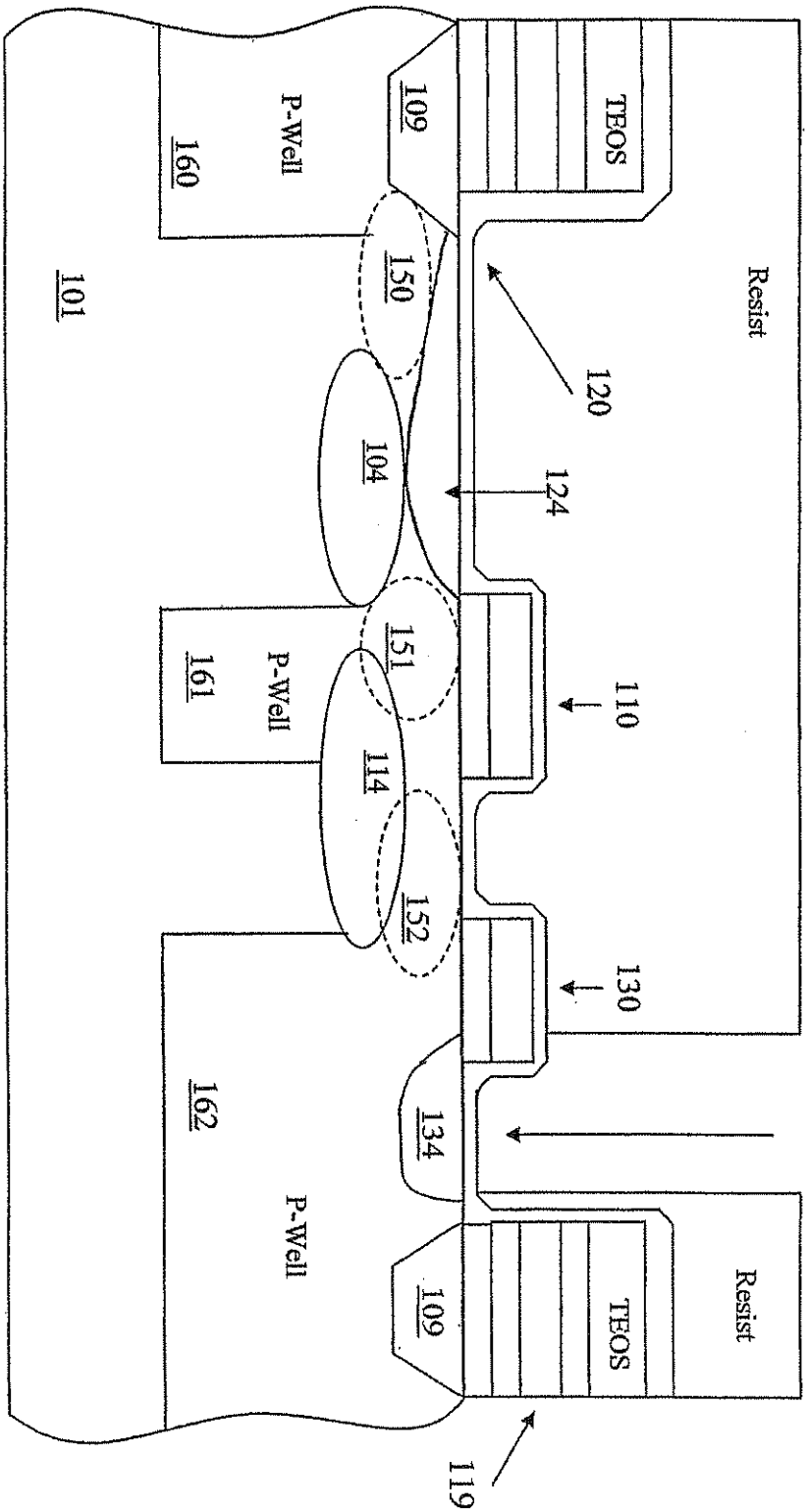

TEOS
Resist
109
P-Well
160
150
101
120
104
124
151
P-Well
161
110
114
152
130
162
134
P-Well
Resist
109
TEOS
119

FIG. 13

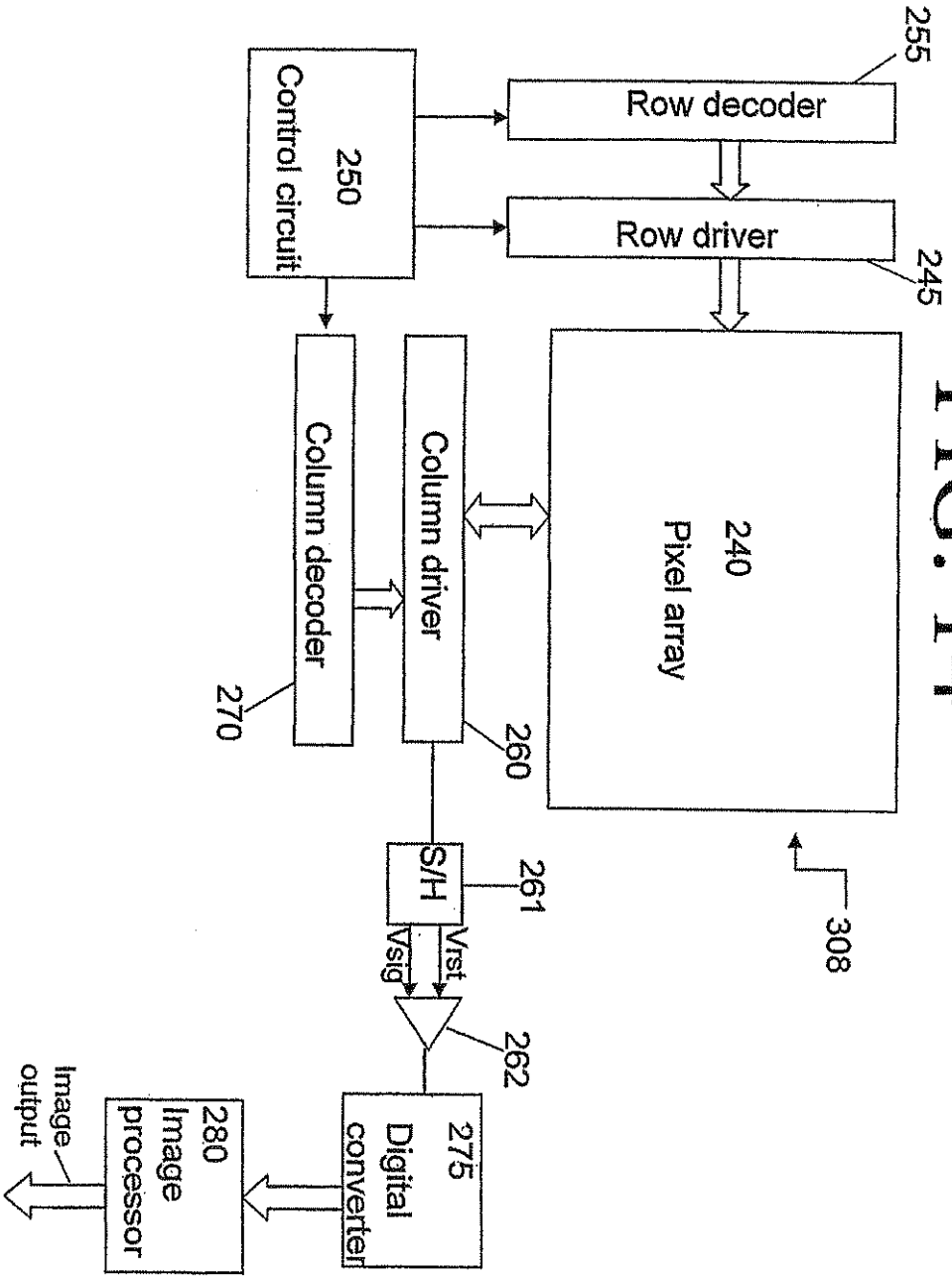

255
Row decoder
250
Control circuit
Row driver
245
240
Pixel array
Column decoder
Column driver
270
260
S/H
261
Vsig
Vrst
262
308
275
Digital converter
280
Image processor
Image output

FIG. 14

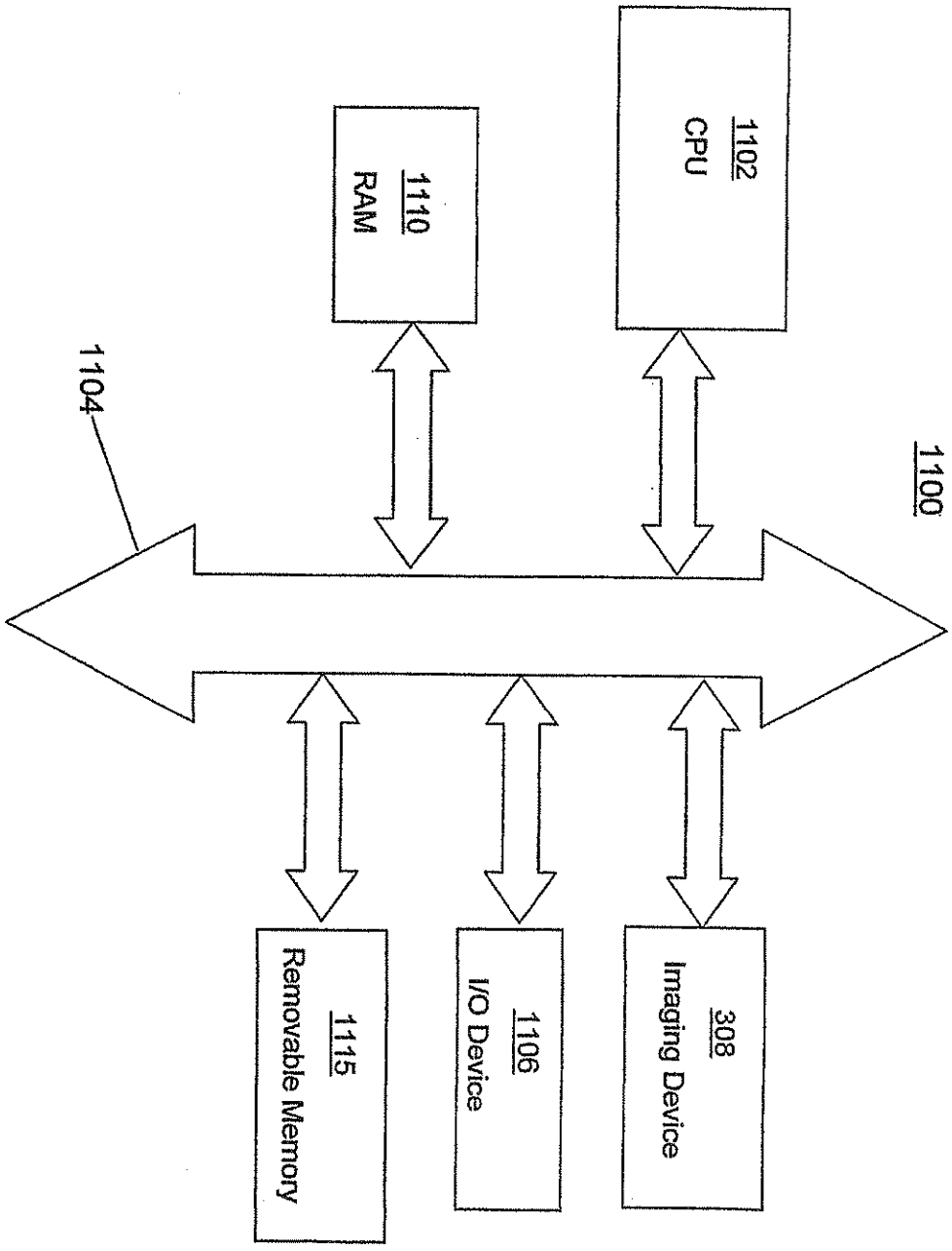

1102
CPU
1110
RAM
1104
1100
1115
Removable Memory
1106
I/O Device
308
Imaging Device

FIG. 15