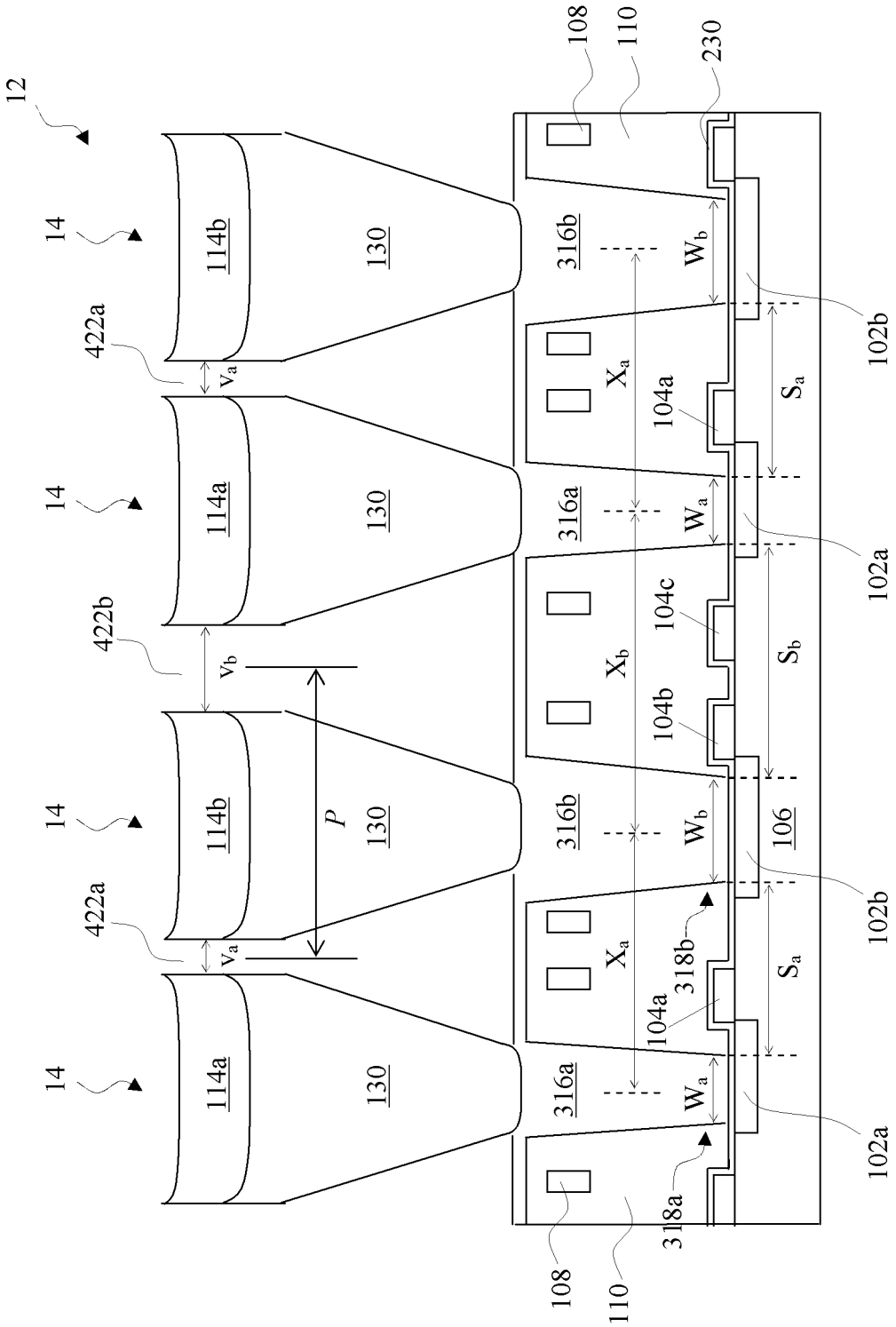

12
14
114a
114b
130
422a
422b
V_a
V_b
P
108
110
230
316a
316b
W_a
W_b
X_a
X_b
S_a
S_b
102a
102b
104a
104b
104c
106
318a
318b

FIG. 1A

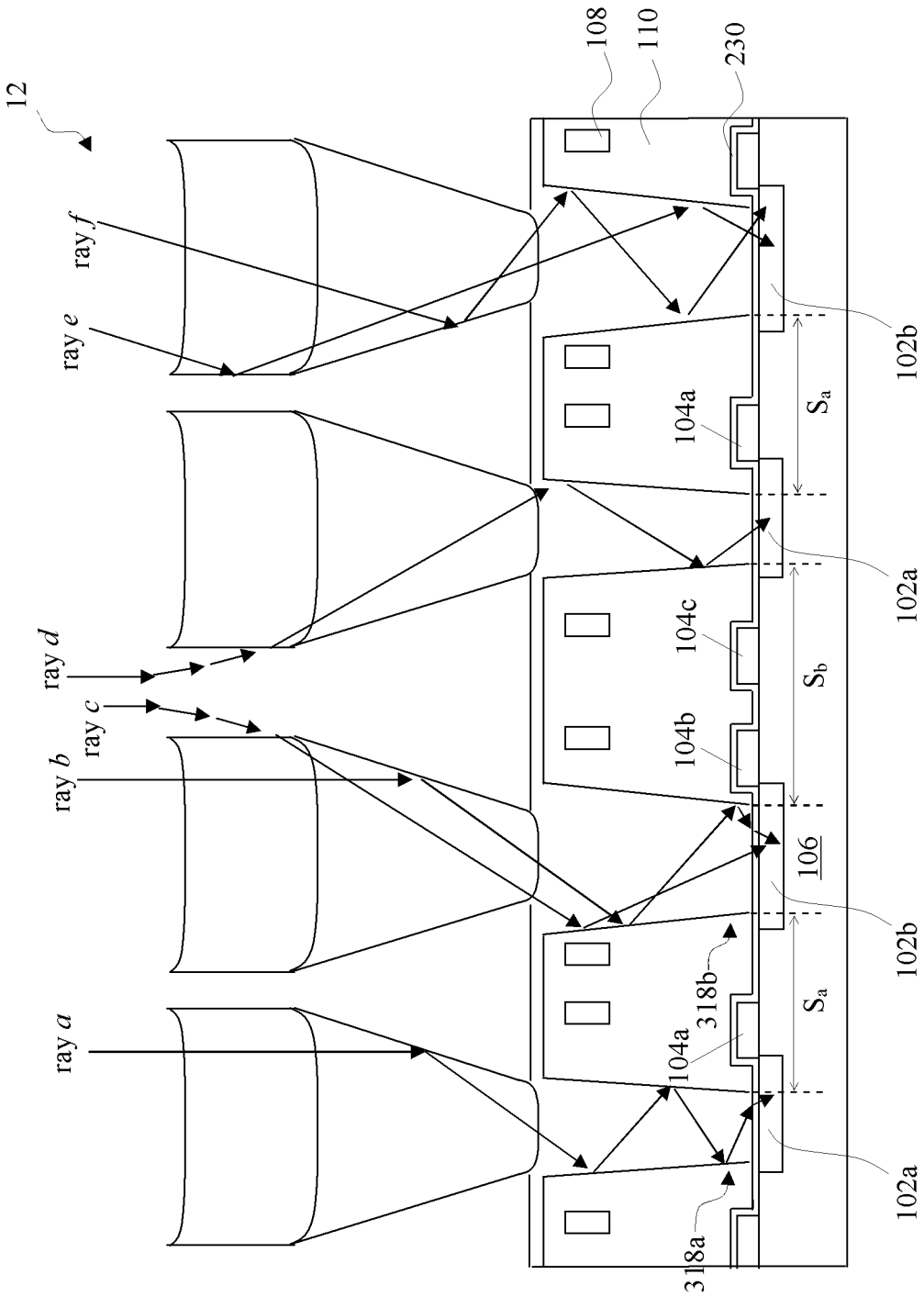

12
ray a
ray b
ray c
ray d
ray e
ray f
108
110
230
102b
102a
104a
104b
104c
106
318a
318b
S_a
S_b

FIG. 1B

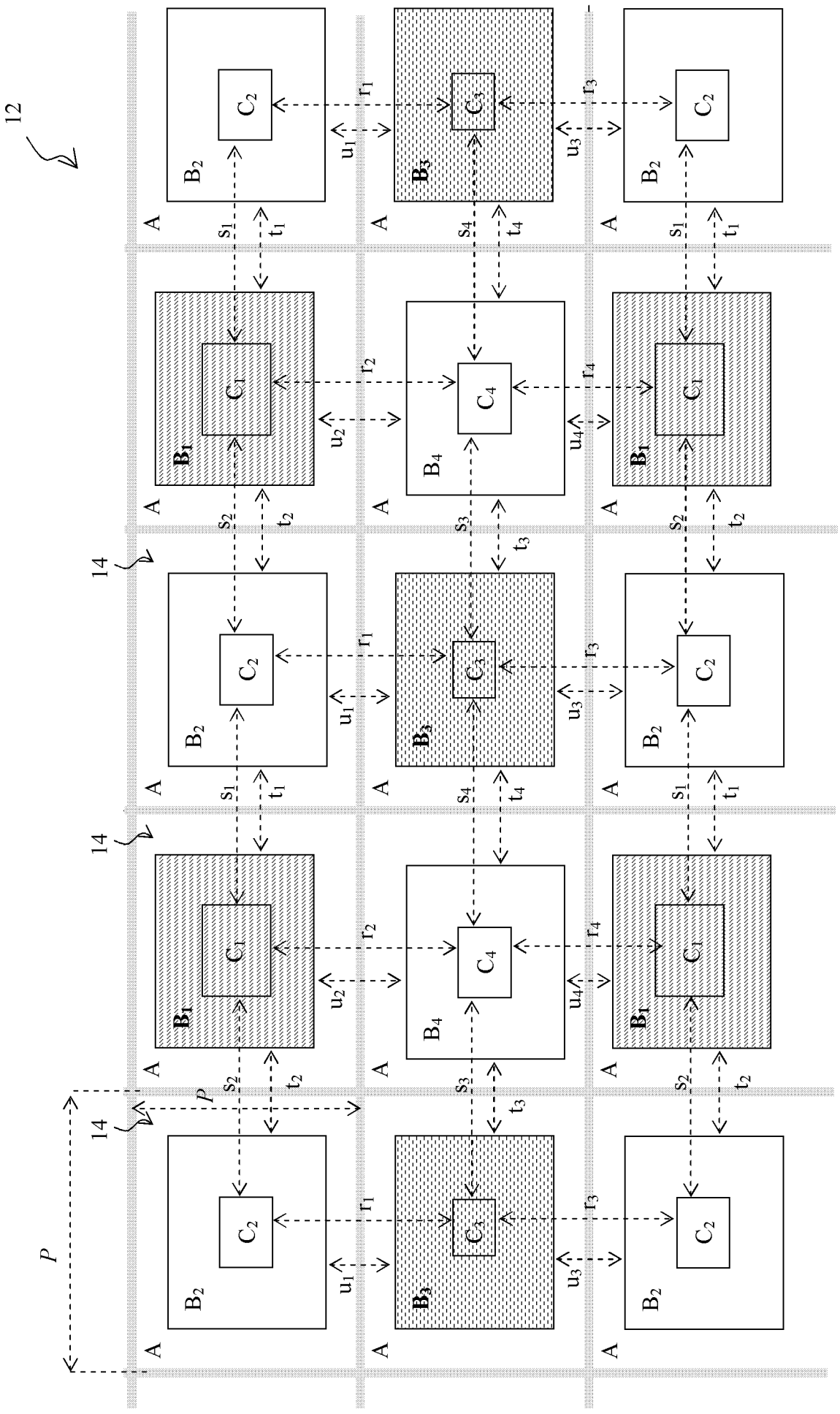

12
14
14
14
P
P
A
B1
B2
B3
B4
C1
C2
C3
C4
s1
s2
s3
s4
t1
t2
t3
t4
r1
r2
r3
r4
u1
u2
u3
u4

FIG. 2A

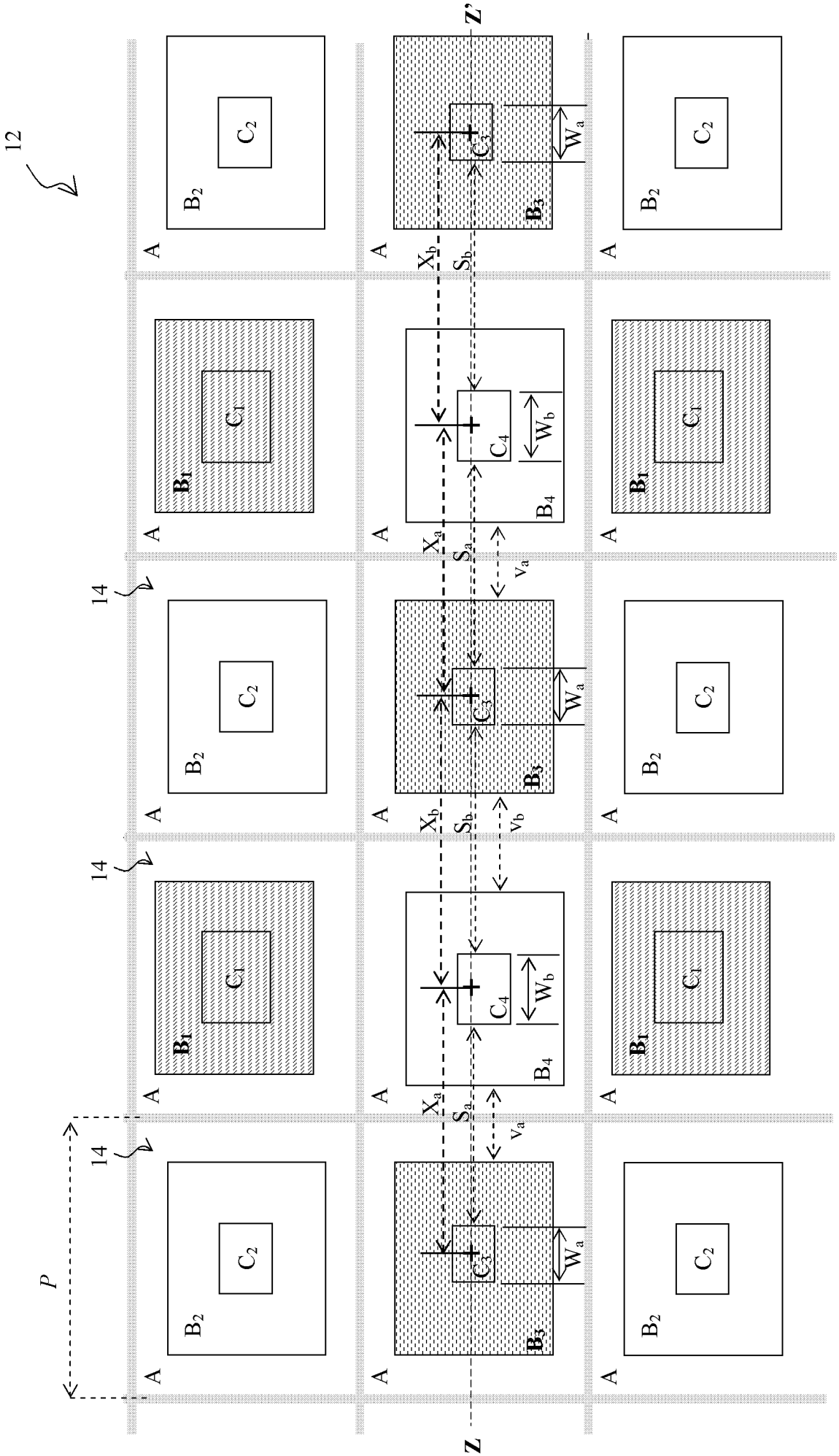


FIG. 2B

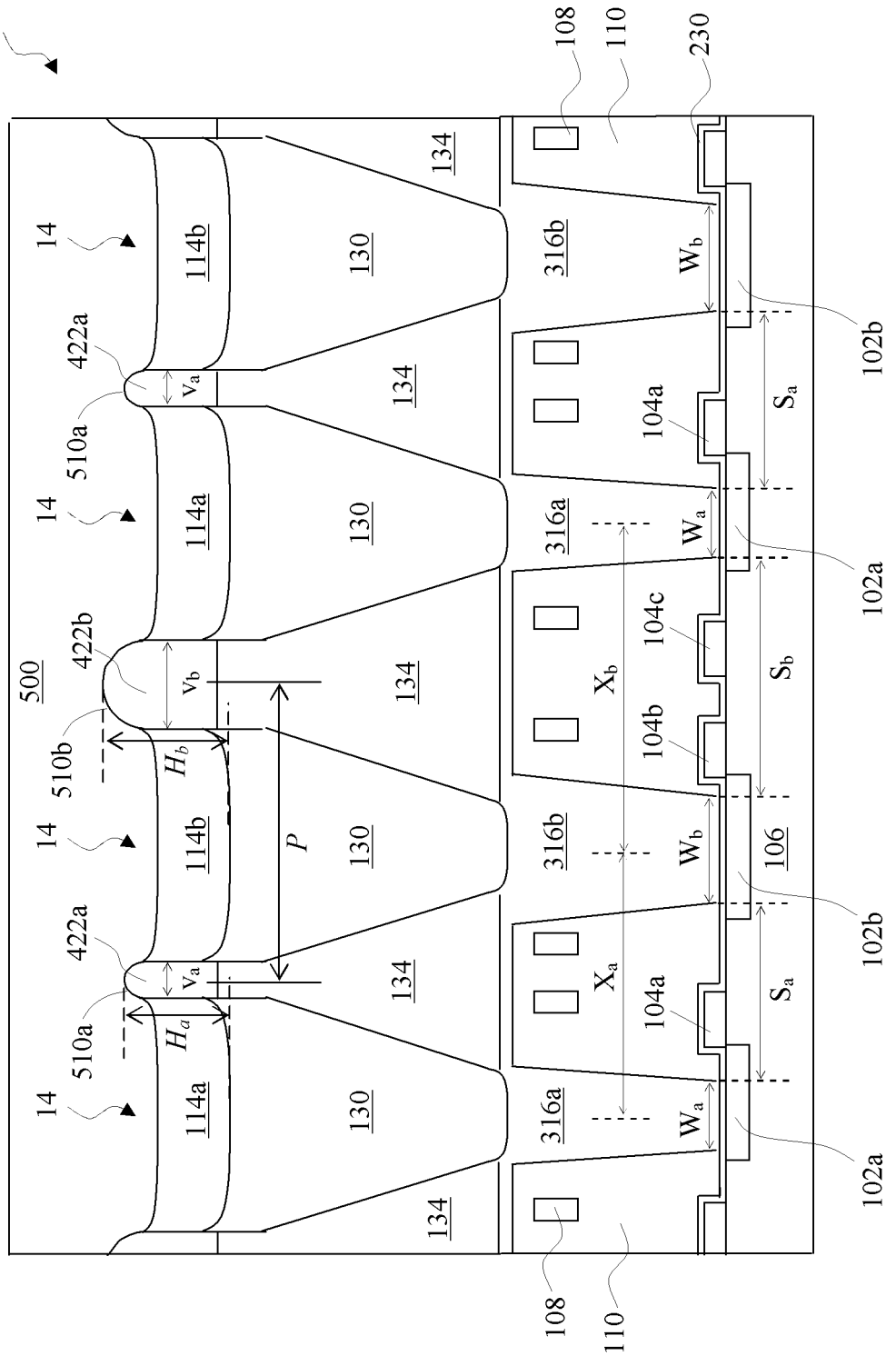

12
14
500
510a
510b
422a
422b
114a
114b
130
134
V_a
V_b
H_a
H_b
P
108
110
230
316a
316b
W_a
W_b
X_a
X_b
104a
104b
104c
106
S_a
S_b
102a
102b

FIG. 3

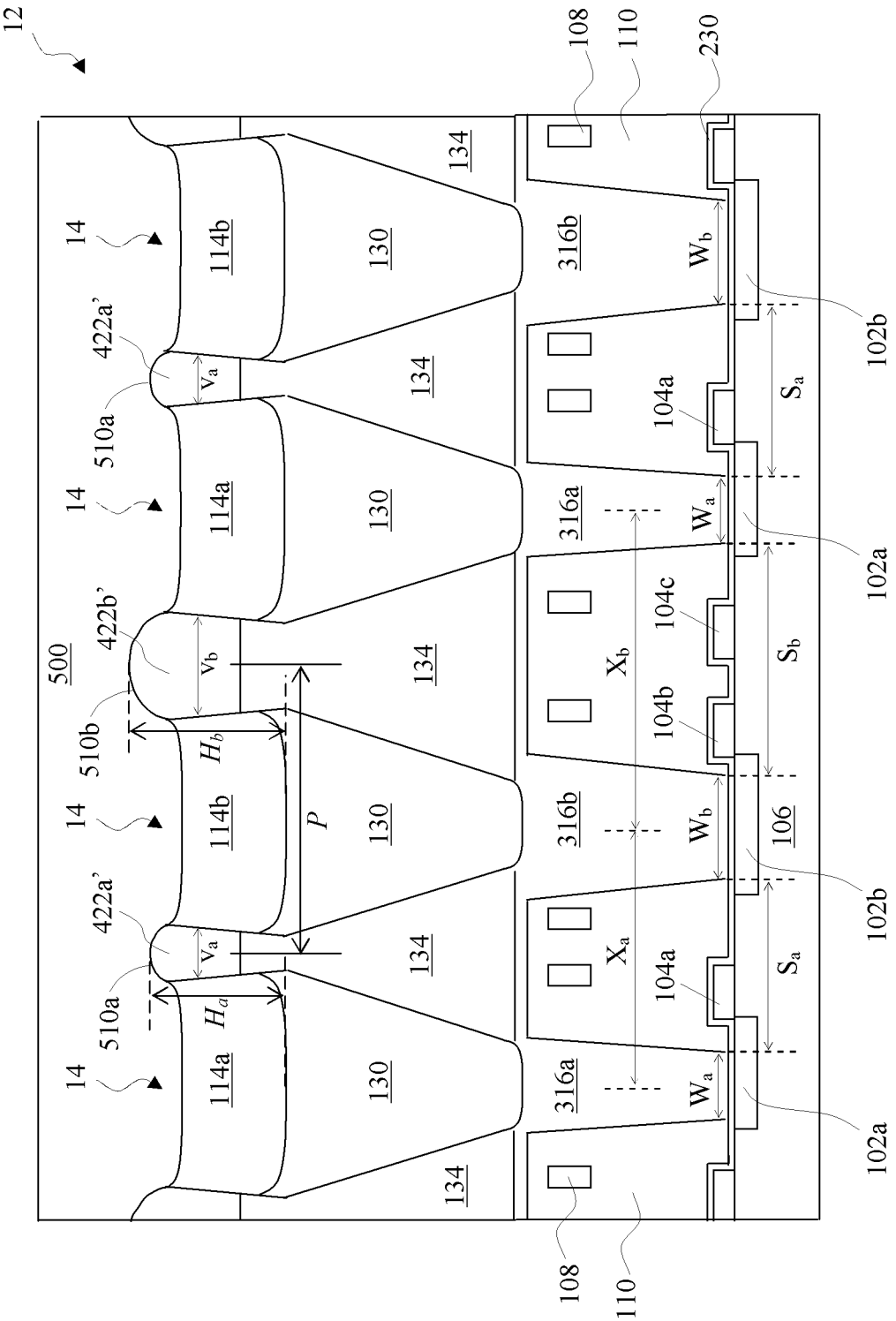

12
108
110
230
14
114b
130
134
316b
W_b
102b
422a'
v_a
510a
114a
104a
S_a
316a
W_a
102a
500
422b'
v_b
510b
H_b
X_b
104c
104b
S_b
P
106
H_d
X_a

FIG. 4

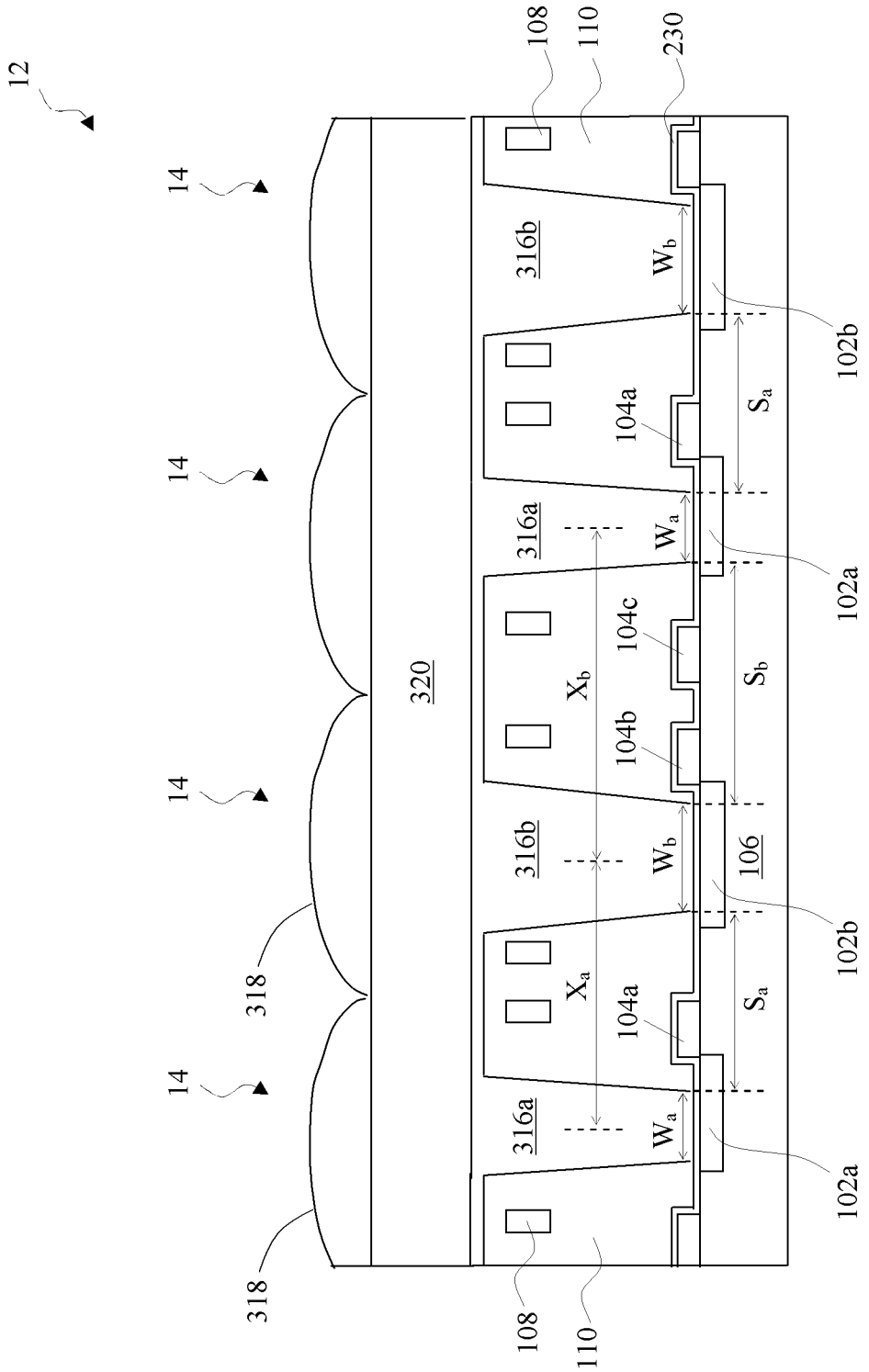

12
14
14
14
14
318
318
320
108
110
230
316b
316a
316b
316a
W_b
W_a
W_b
W_a
X_b
X_a
S_a
S_b
S_a
104a
104c
104b
104a
102b
102a
106
102b
102a
108
110

FIG. 5

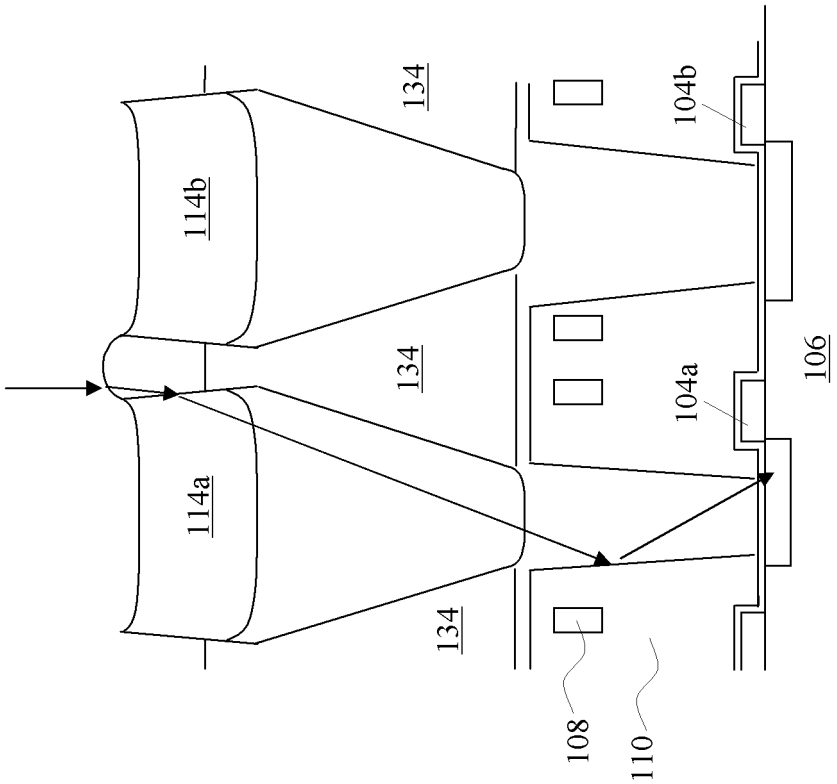

114b
134
104b
114a
134
104a
106
134
108
110

FIG. 7

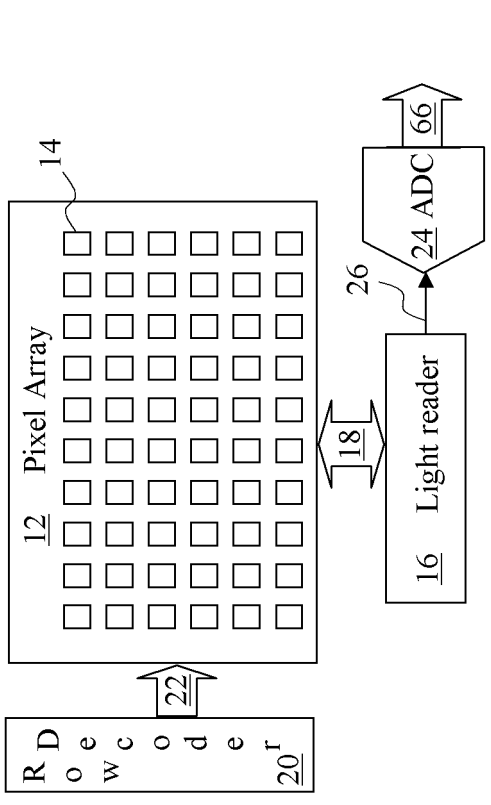

10
14
12 Pixel Array
22
Row decoder 20
18
26
24 ADC
66
16 Light reader

FIG. 6

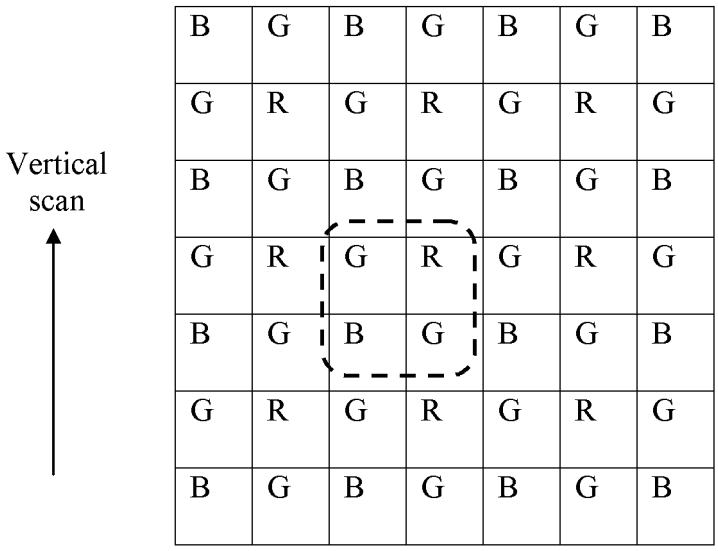

Vertical scan
B G B G B G B
G R G R G R G
B G B G B G B
G R G R G R G
B G B G B G B
G R G R G R G
B G B G B G B

FIG. 8A

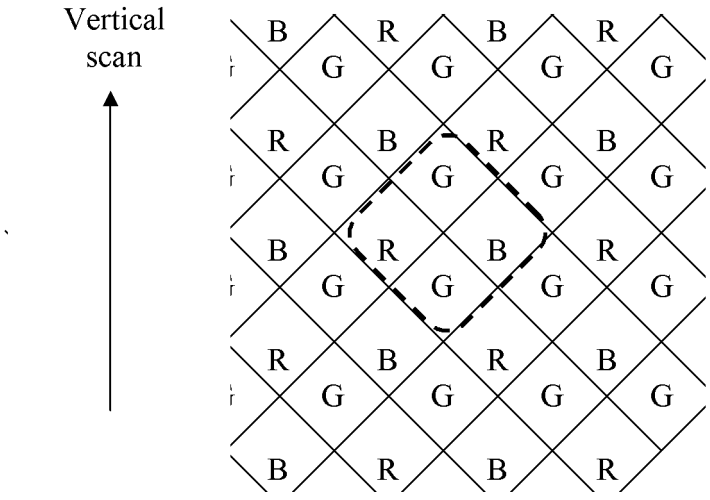

Vertical scan
B R B R
G G G G
R B R B
G G G G
B R B R
G G G G
R B R B
G G G G
B R B R

FIG. 8B

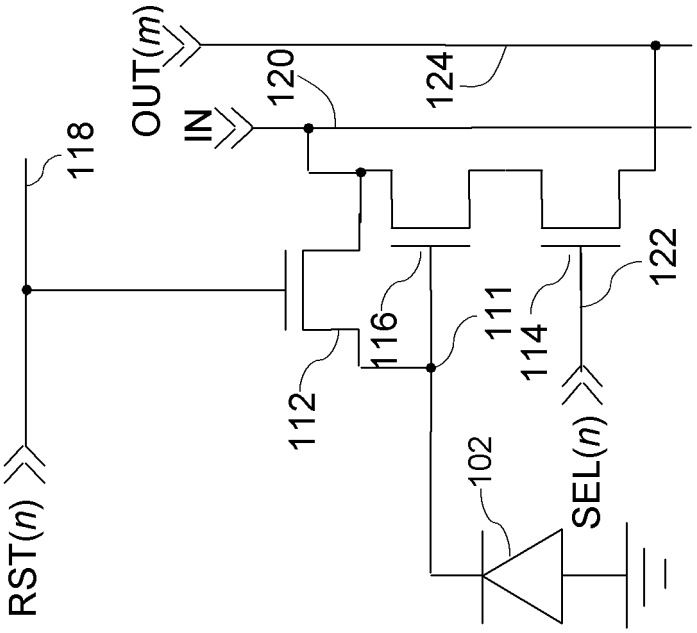

OUT(m)
IN
120
124
118
122
111
116
114
112
RST(n)
102
SEL(n)

FIG. 10

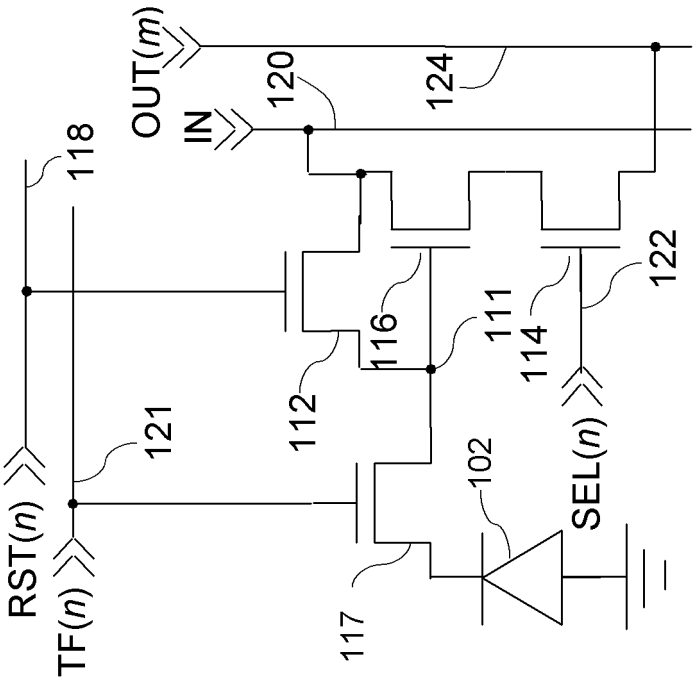

OUT(m)
IN
120
124
118
122
111
116
114
112
121
RST(n)
TF(n)
102
SEL(n)
117

FIG. 9