Drawings

FIG. 1

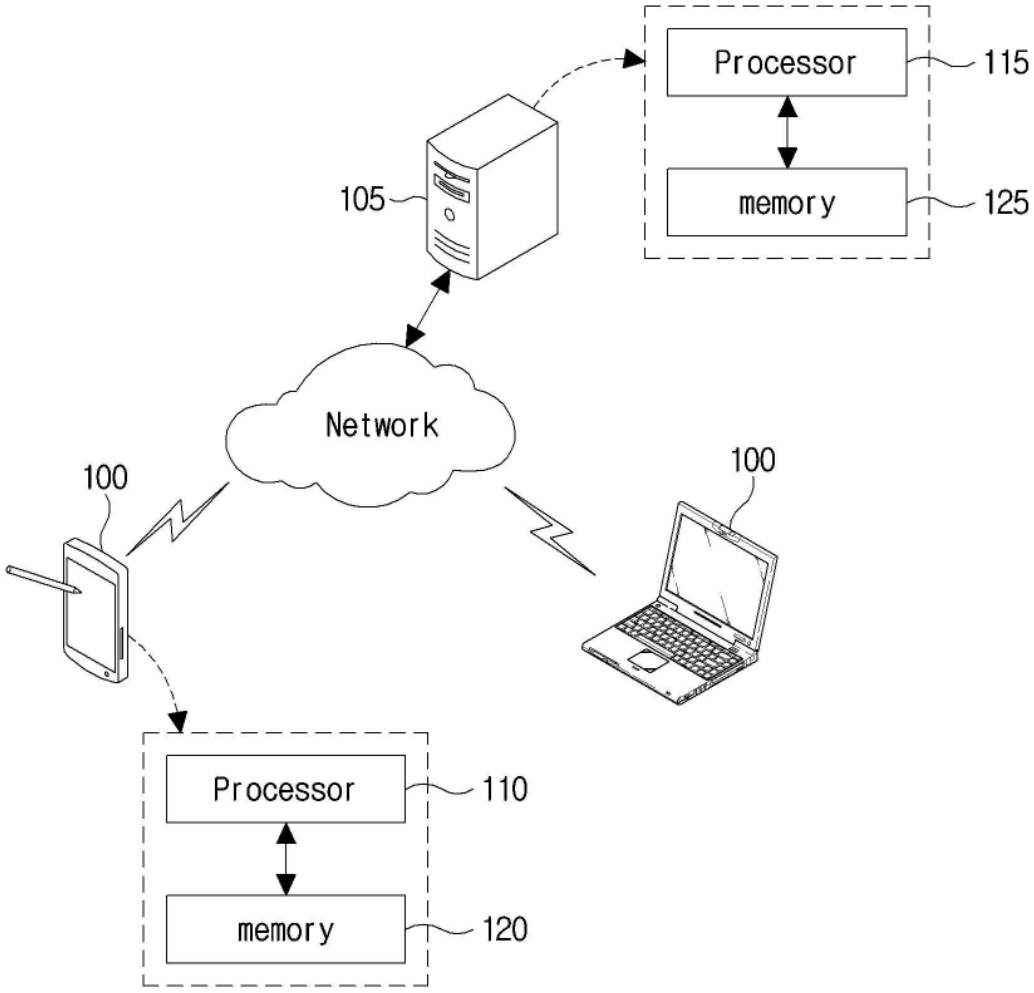


FIG. 2

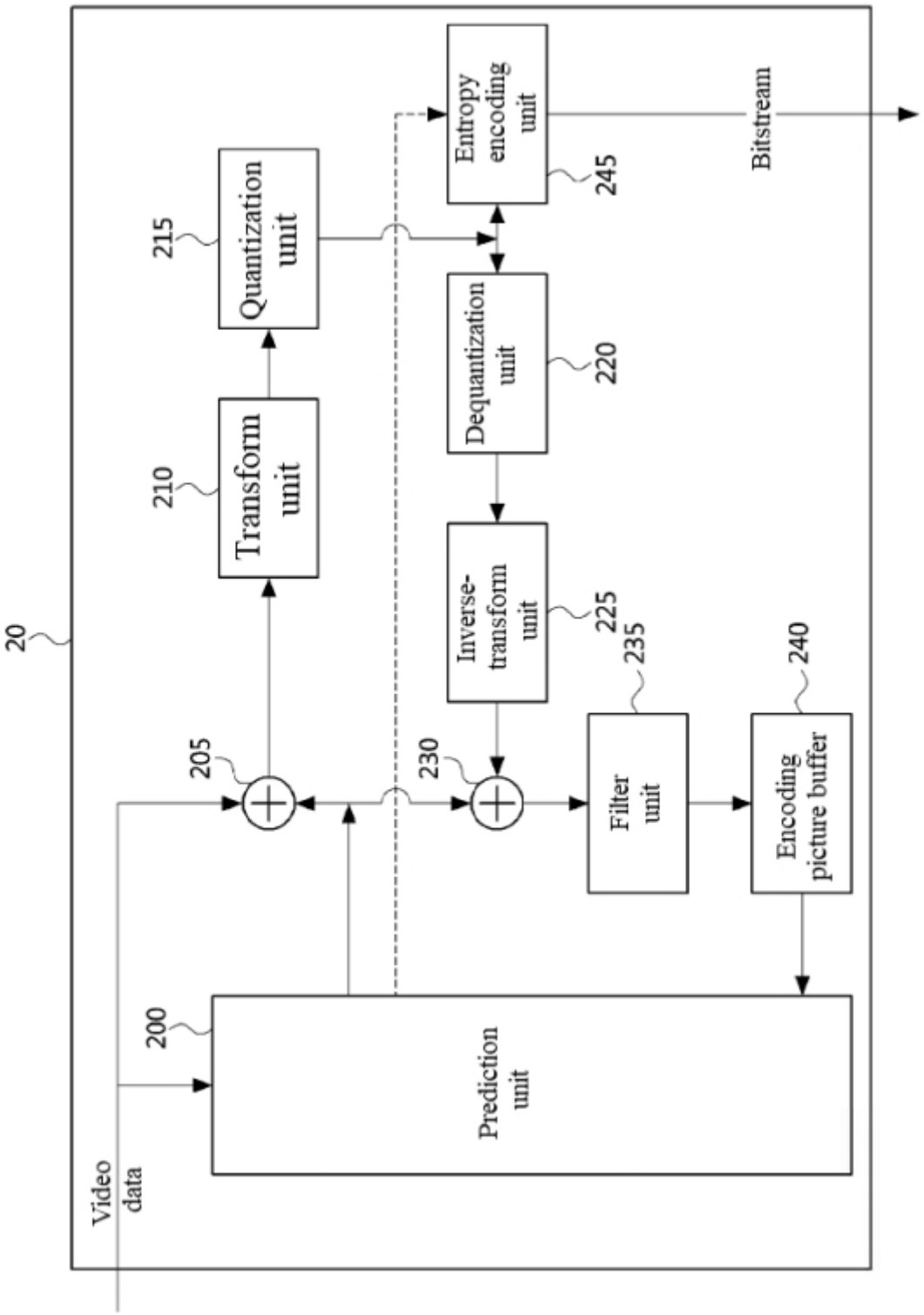

20
Video data
200
Prediction unit
205
210
Transform unit
215
Quantization unit
220
Dequantization unit
225
Inverse-transform unit
230
235
Filter unit
240
Encoding picture buffer
245
Entropy encoding unit
Bitstream

FIG. 3

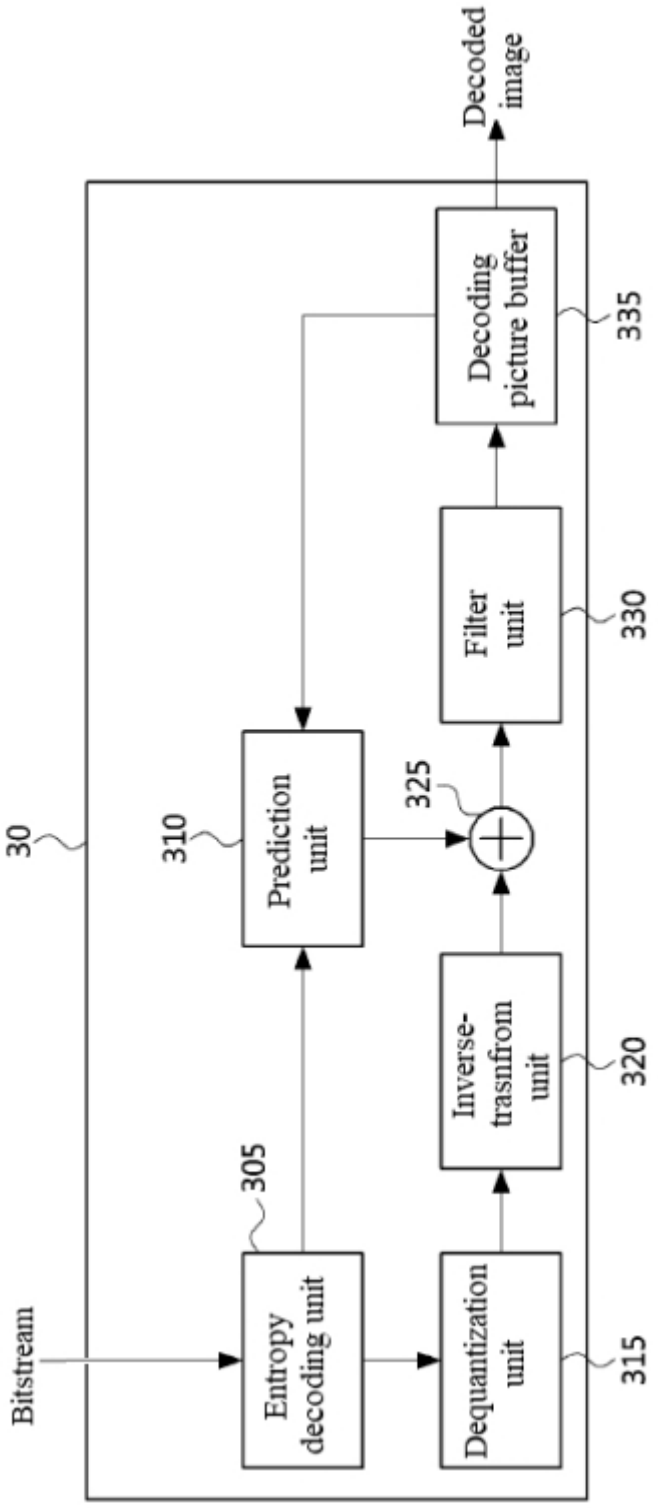

Decoded image
Decoding picture buffer
335
Filter unit
330
325
Prediction unit
310
30
Inverse-trasnfrom unit
320
305
Entropy decoding unit
Dequantization unit
315
Bitstream

FIG. 4

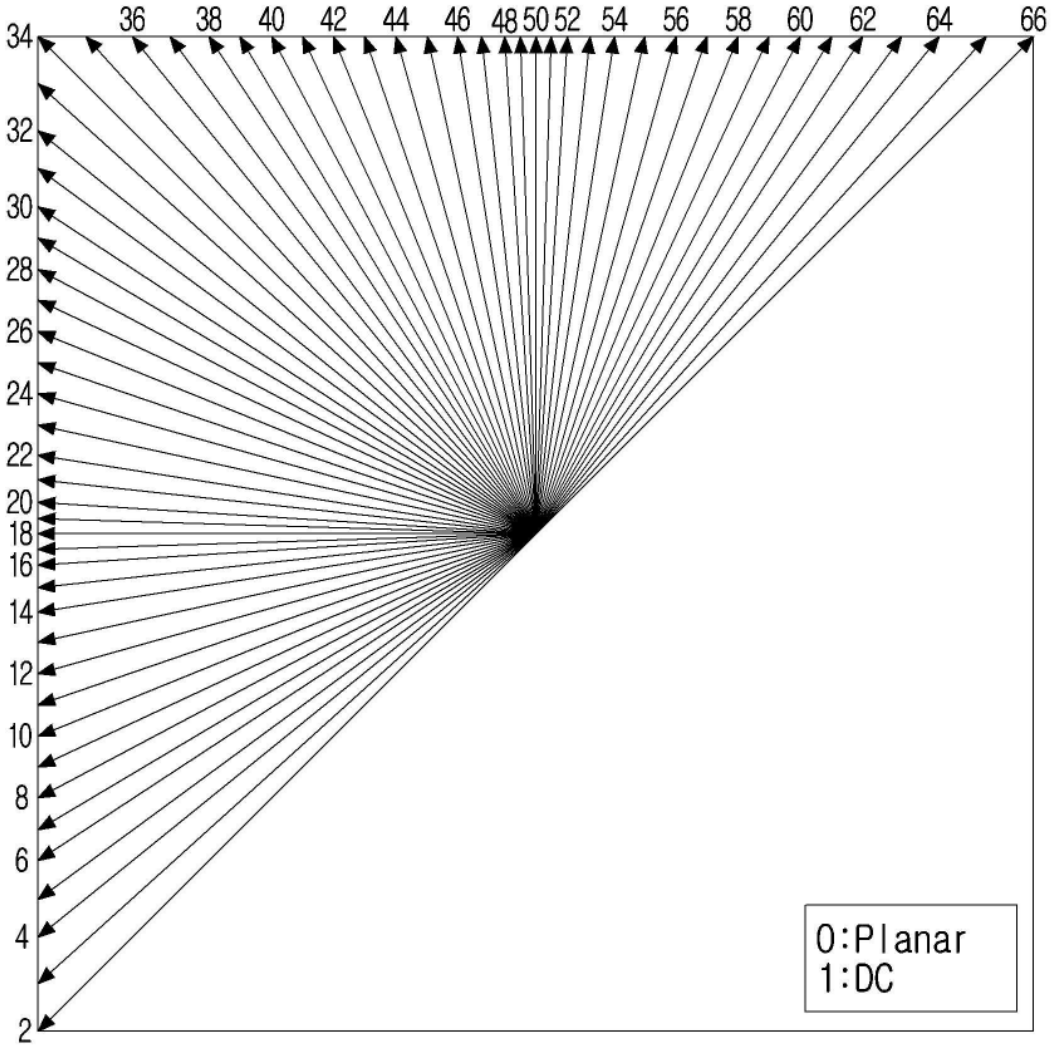

36
38
40
42
44
46
48
50
52
54
56
58
60
62
64
66
34
32
30
28
26
24
22
20
18
16
14
12
10
8
6
4
2
0:Planar
1:DC

FIG. 5

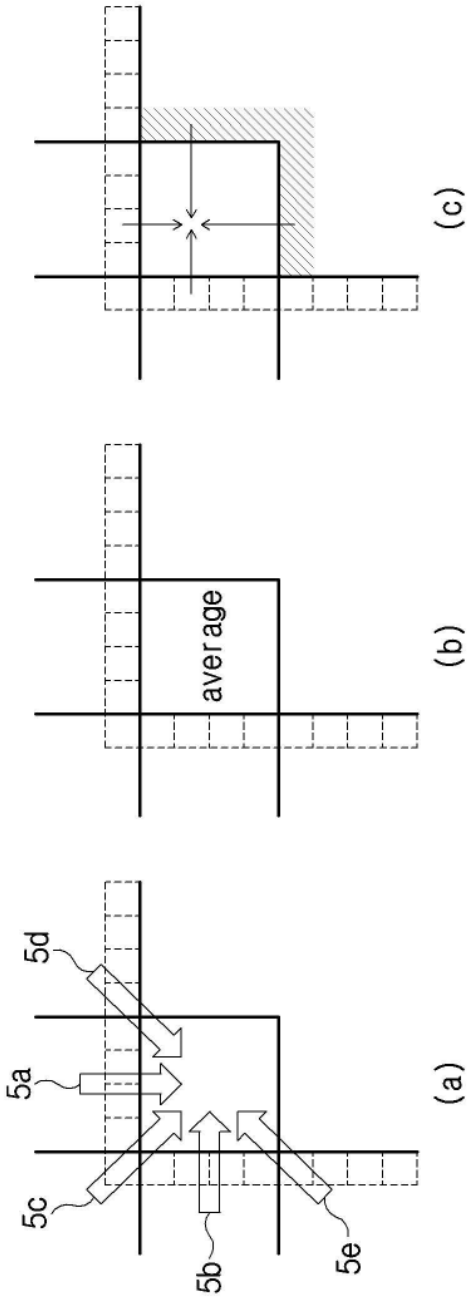


FIG. 6

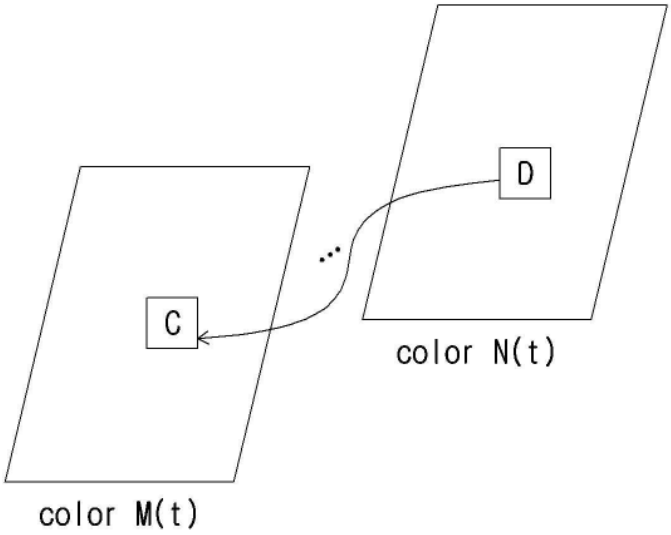

D
C
color N(t)
color M(t)

FIG. 7

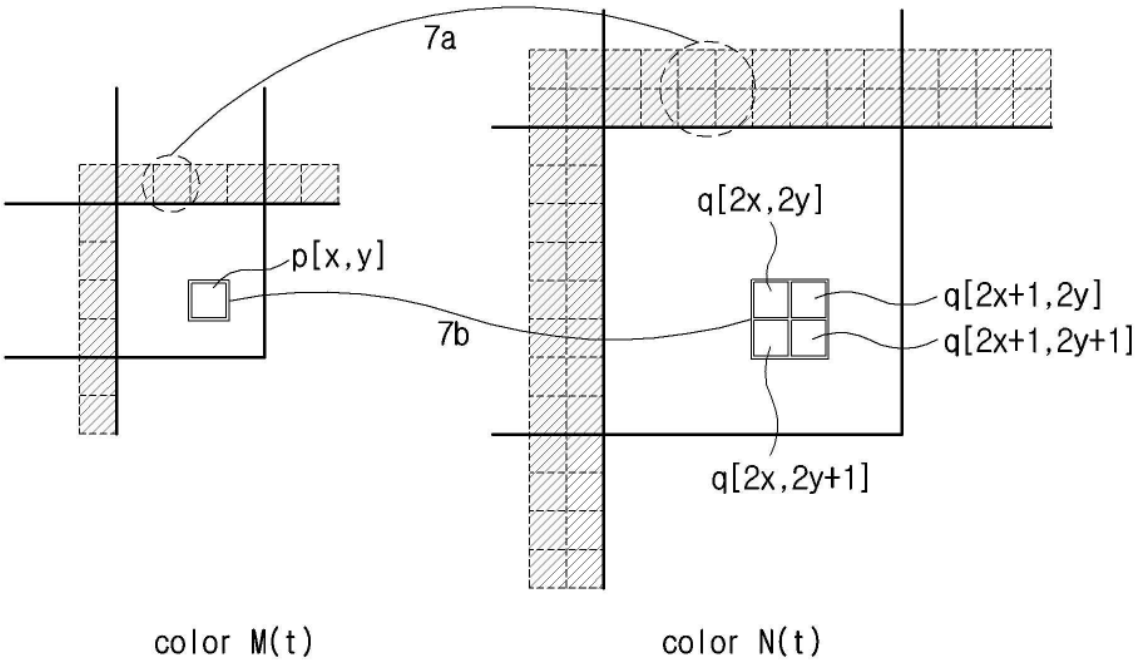

7a
p[x,y]
7b
q[2x,2y]
q[2x+1,2y]
q[2x+1,2y+1]
q[2x,2y+1]
color M(t)
color N(t)

FIG. 8

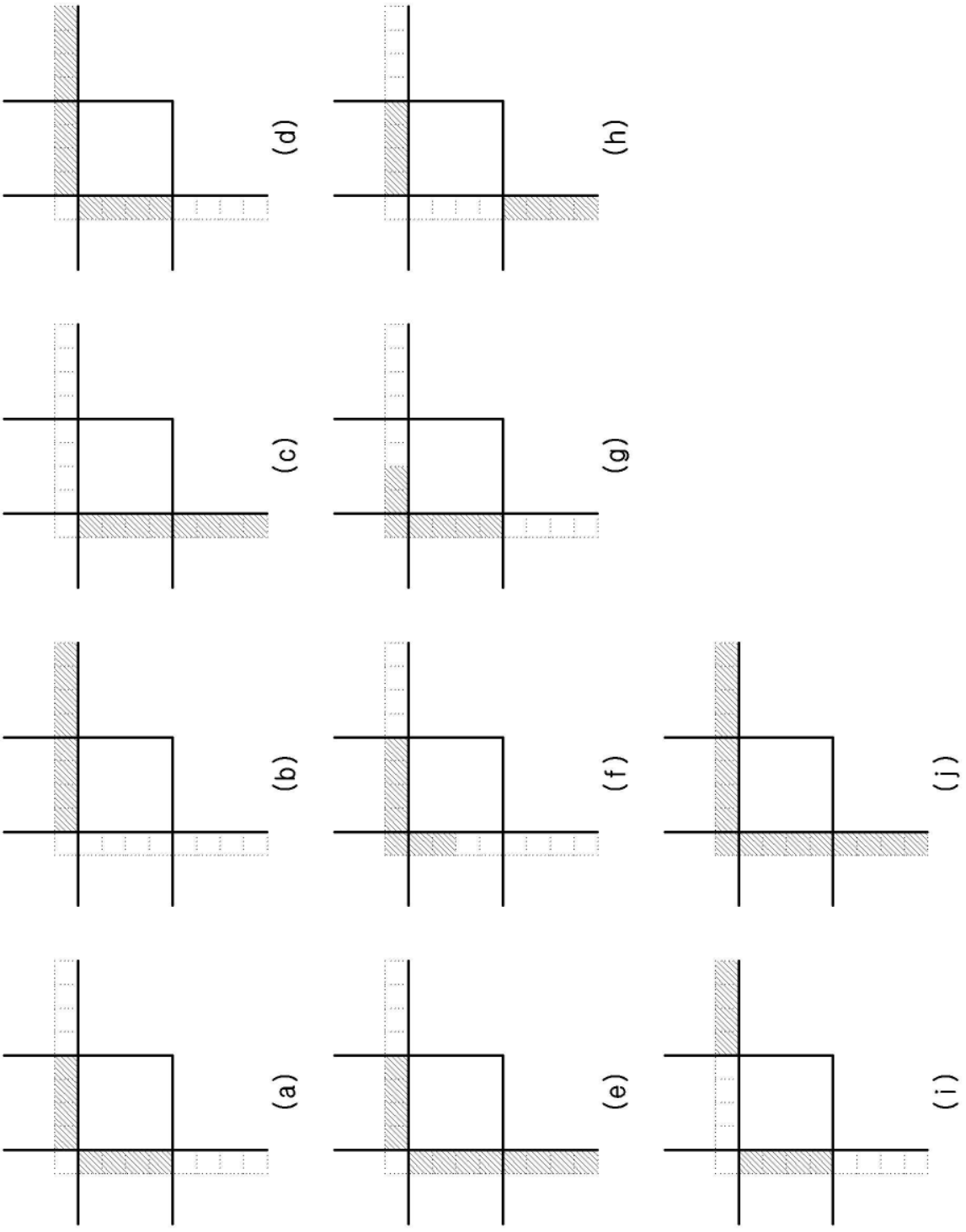


FIG. 9

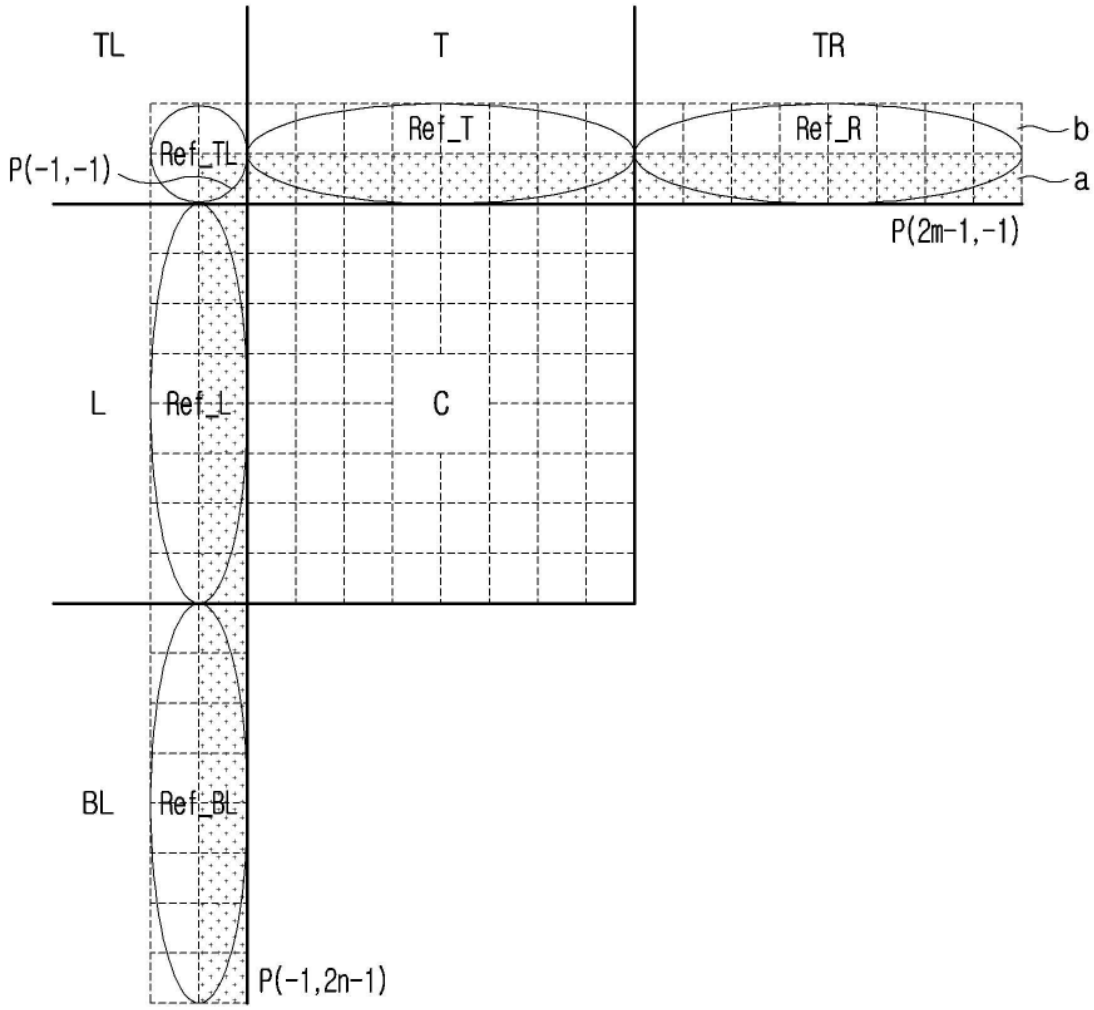


FIG. 10

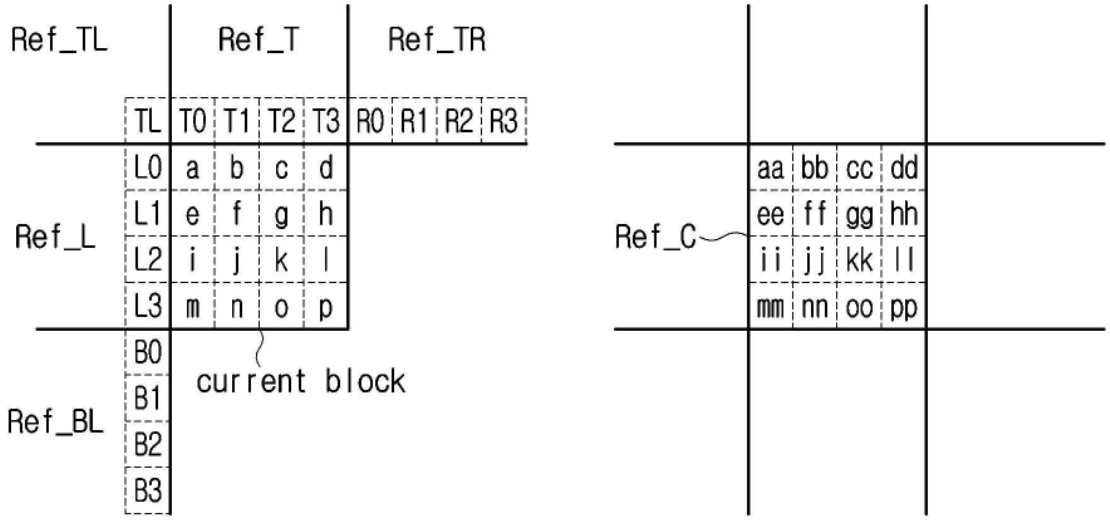

Ref_TL
Ref_T
Ref_TR
TL
T0
T1
T2
T3
R0
R1
R2
R3
Ref_L
L0
L1
L2
L3
a
b
c
d
e
f
g
h
i
j
k
l
m
n
o
p
Ref_BL
B0
B1
B2
B3
current block
Ref_C
aa
bb
cc
dd
ee
ff
gg
hh
ii
jj
kk
ll
mm
nn
oo
pp

FIG. 11

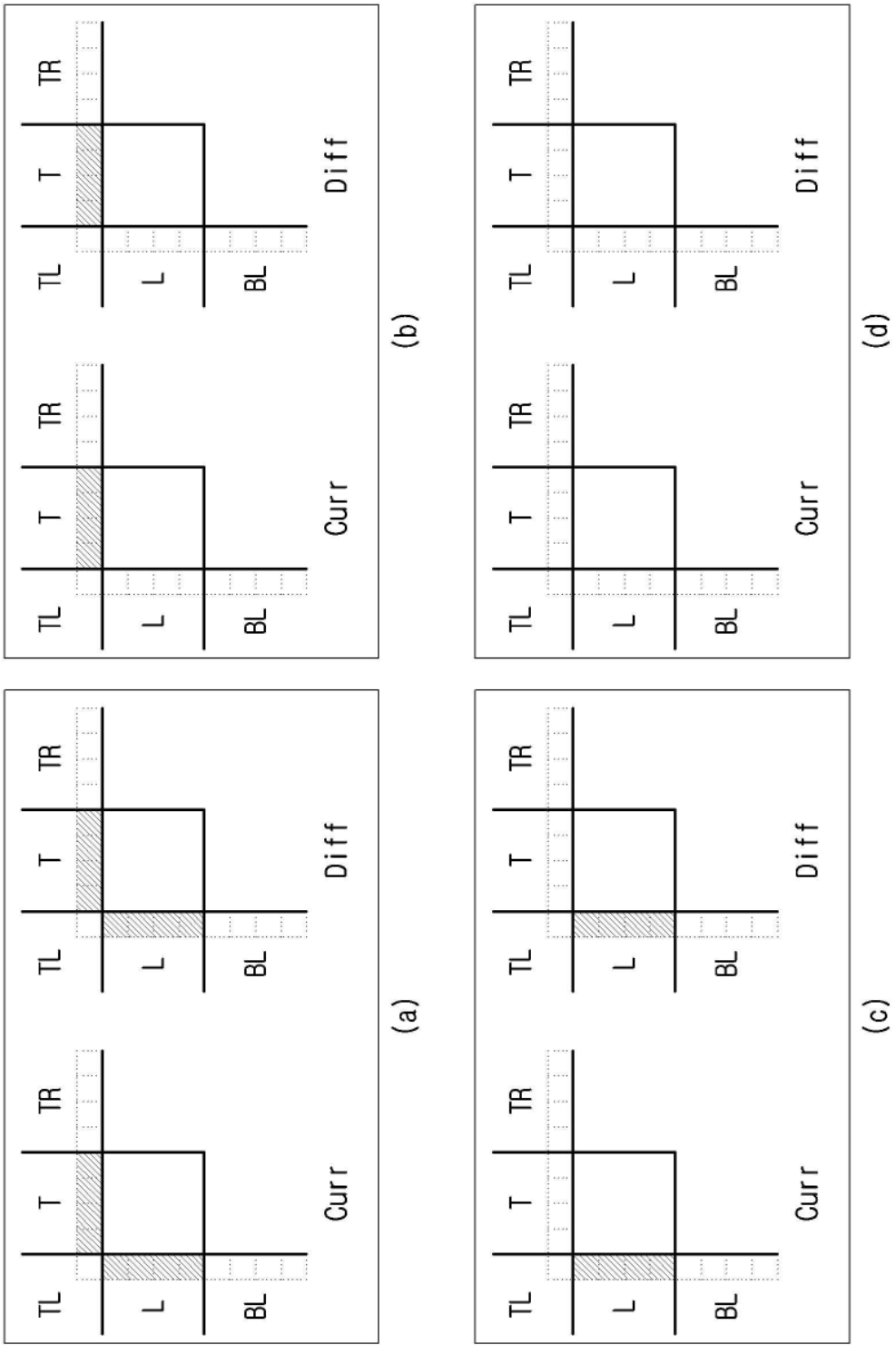


FIG. 12

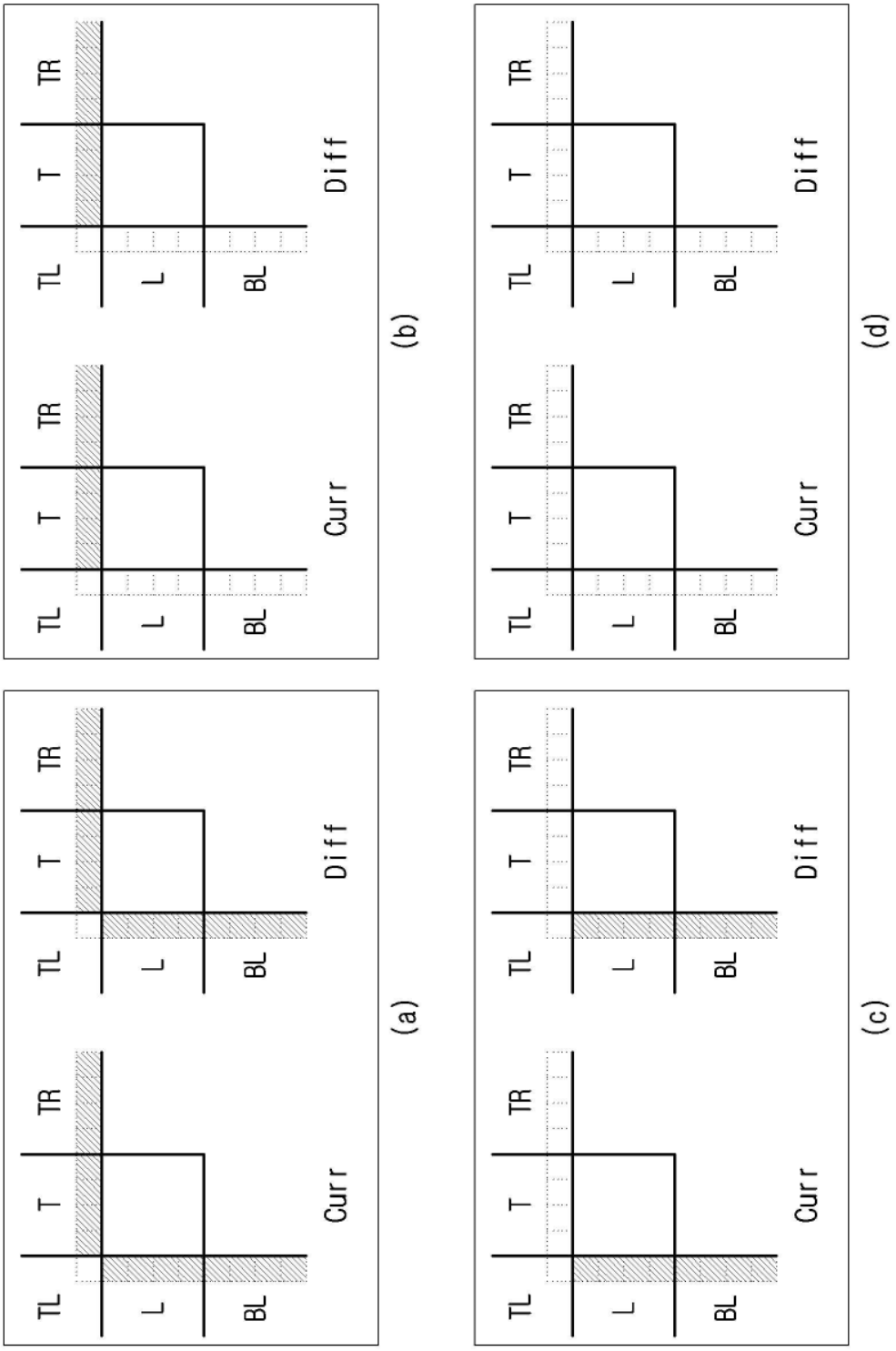


FIG. 13

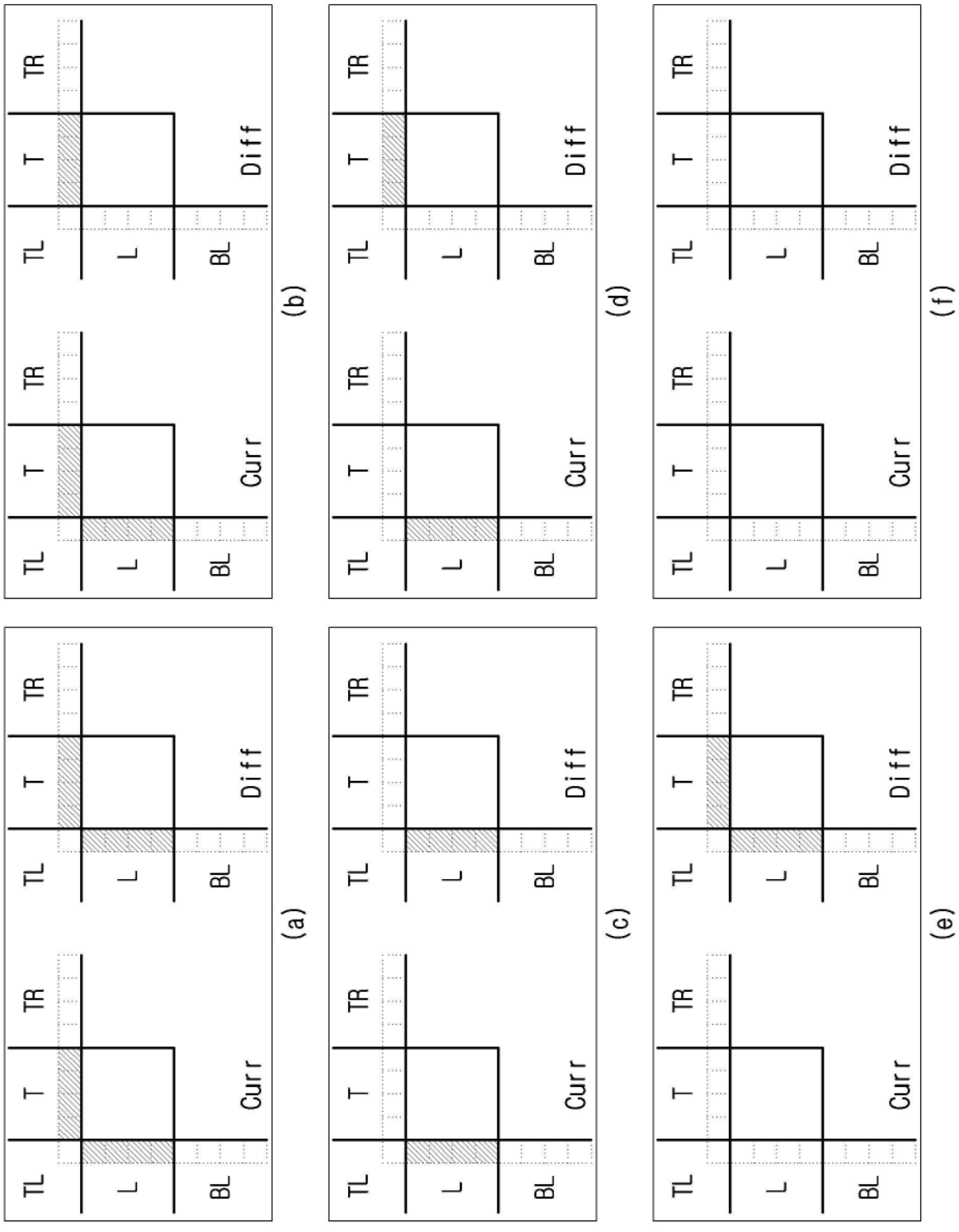


FIG. 14

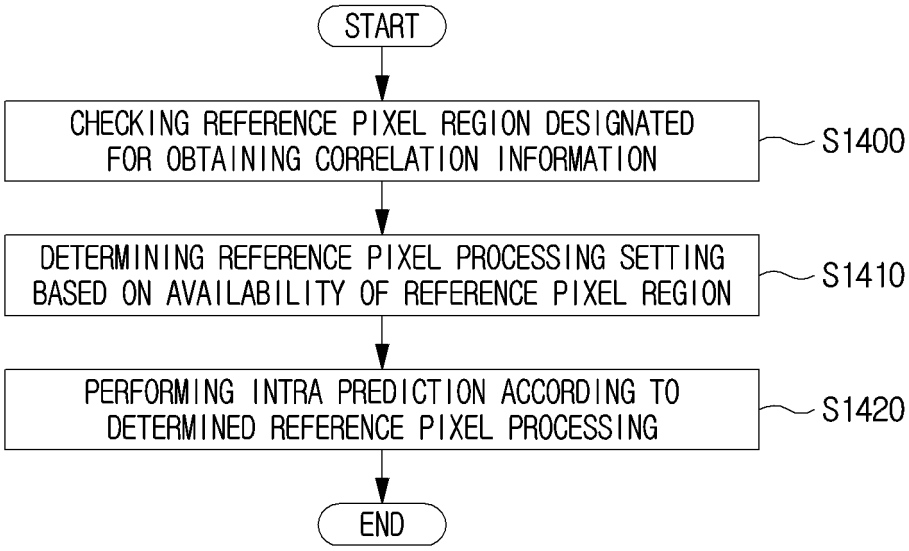

START
CHECKING REFERENCE PIXEL REGION DESIGNATED FOR OBTAINING CORRELATION INFORMATION
S1400
DETERMINING REFERENCE PIXEL PROCESSING SETTING BASED ON AVAILABILITY OF REFERENCE PIXEL REGION
S1410
PERFORMING INTRA PREDICTION ACCORDING TO DETERMINED REFERENCE PIXEL PROCESSING
S1420
END

FIG. 15

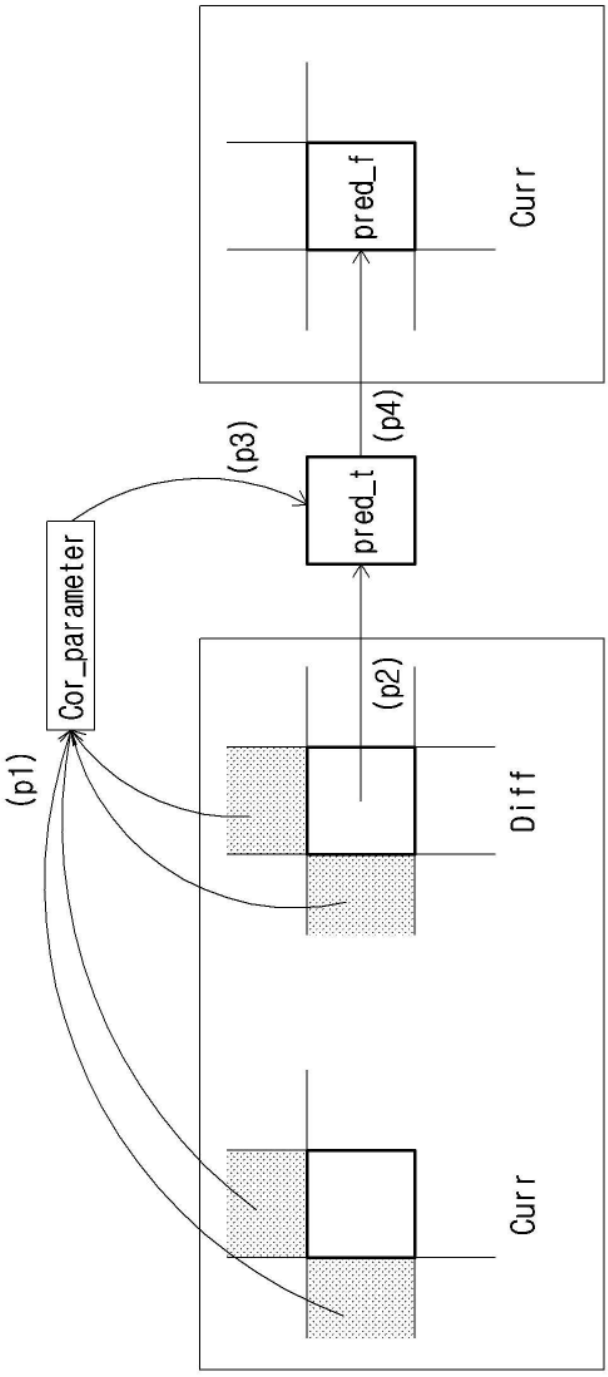


FIG. 16

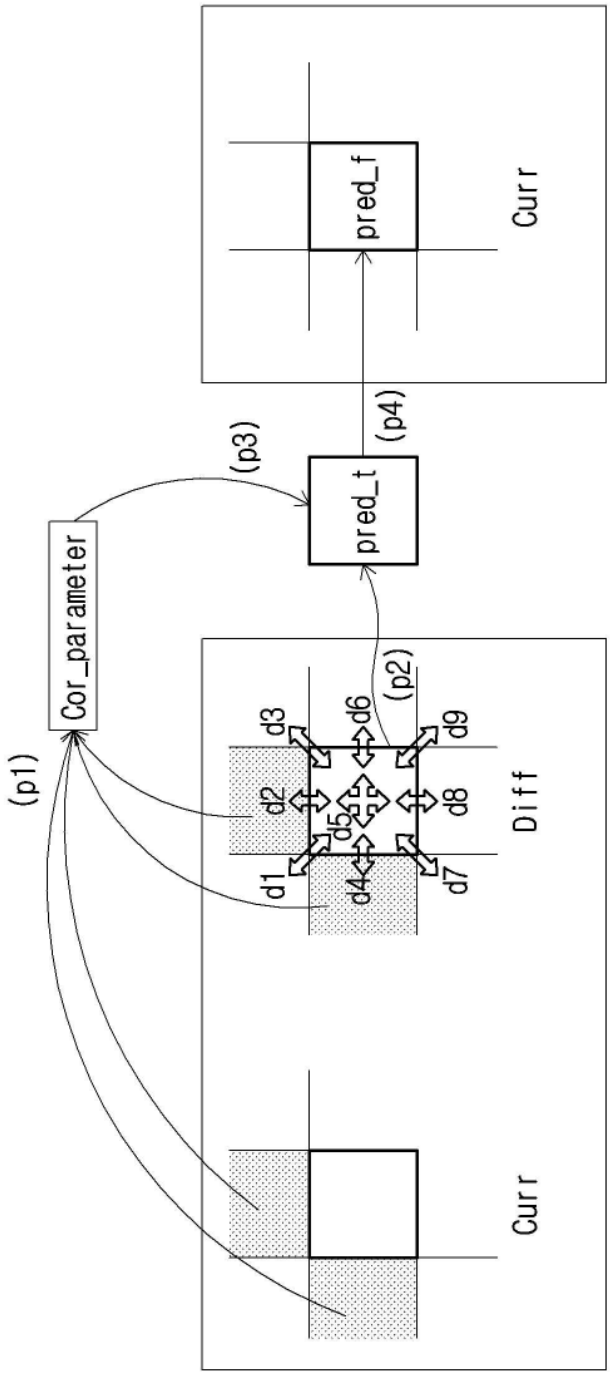

Curr
pred_f
(p4)
(p3)
pred_t
Cor_parameter
(p2)
(p1)
d3
d6
d9
d2
d5
d8
d1
d4
d7
Diff
Curr

FIG. 17

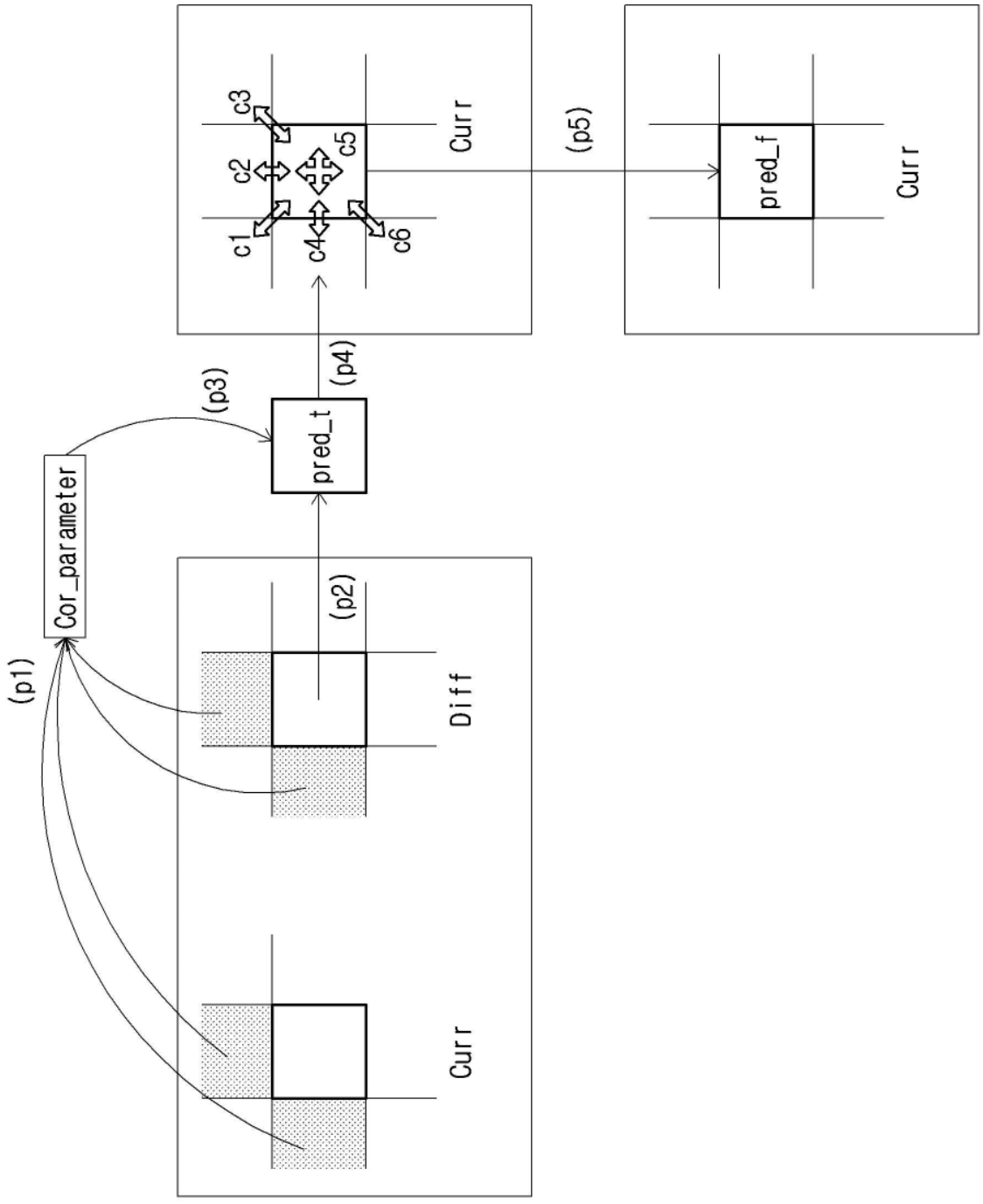

Curr
c3
c2
c5
c1
c4
c6
(p5)
pred_f
Curr
(p3)
(p4)
pred_t
Cor_parameter
(p1)
(p2)
Diff
Curr

FIG. 18

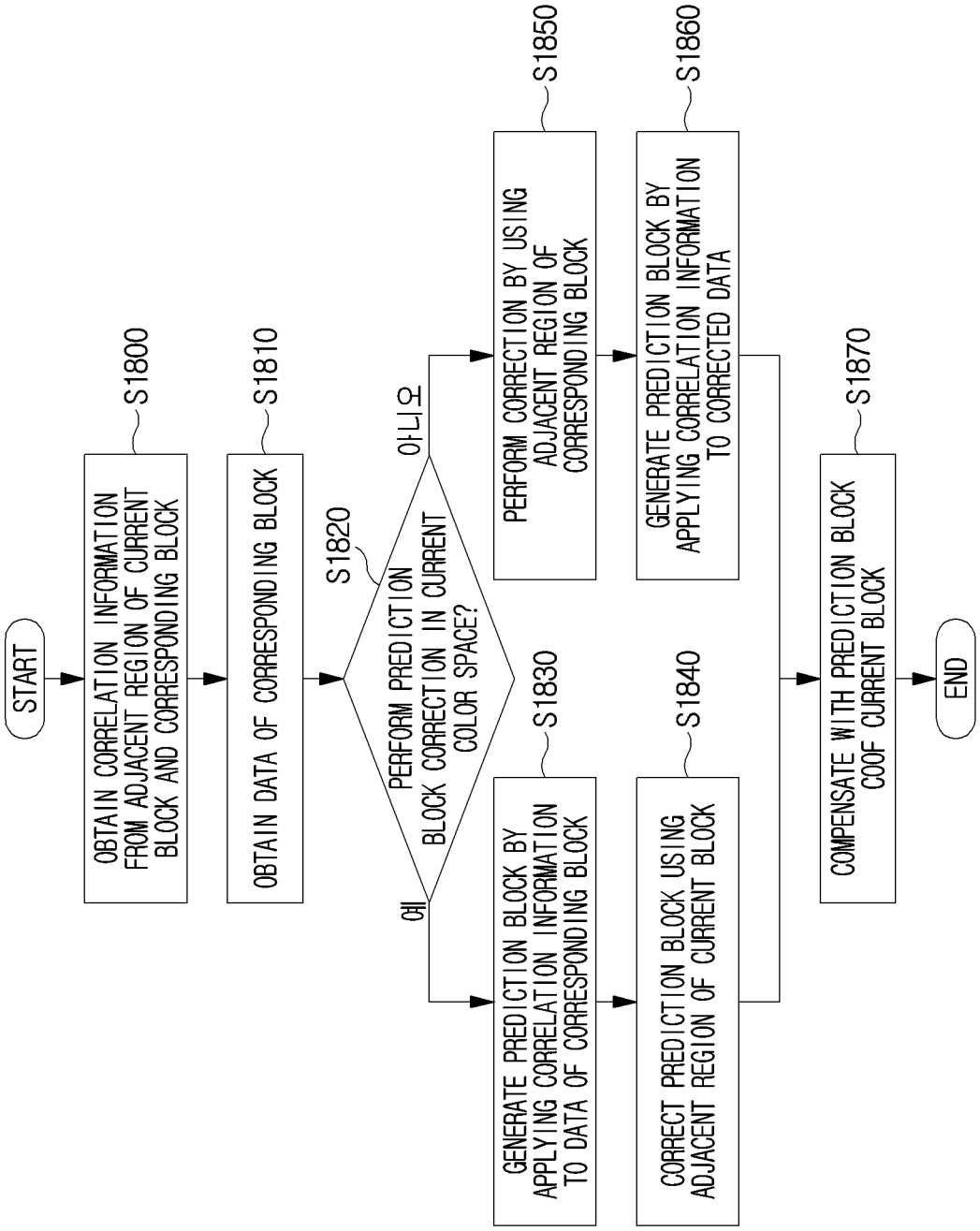

START
S1800
OBTAIN CORRELATION INFORMATION FROM ADJACENT REGION OF CURRENT BLOCK AND CORRESPONDING BLOCK
S1810
OBTAIN DATA OF CORRESPONDING BLOCK
S1820
PERFORM PREDICTION BLOCK CORRECTION IN CURRENT COLOR SPACE?
아니오
예
S1830
GENERATE PREDICTION BLOCK BY APPLYING CORRELATION INFORMATION TO DATA OF CORRESPONDING BLOCK
S1840
CORRECT PREDICTION BLOCK USING ADJACENT REGION OF CURRENT BLOCK
S1850
PERFORM CORRECTION BY USING ADJACENT REGION OF CORRESPONDING BLOCK
S1860
GENERATE PREDICTION BLOCK BY APPLYING CORRELATION INFORMATION TO CORRECTED DATA
S1870
COMPENSATE WITH PREDICTION BLOCK COOF CURRENT BLOCK
END

FIG. 19

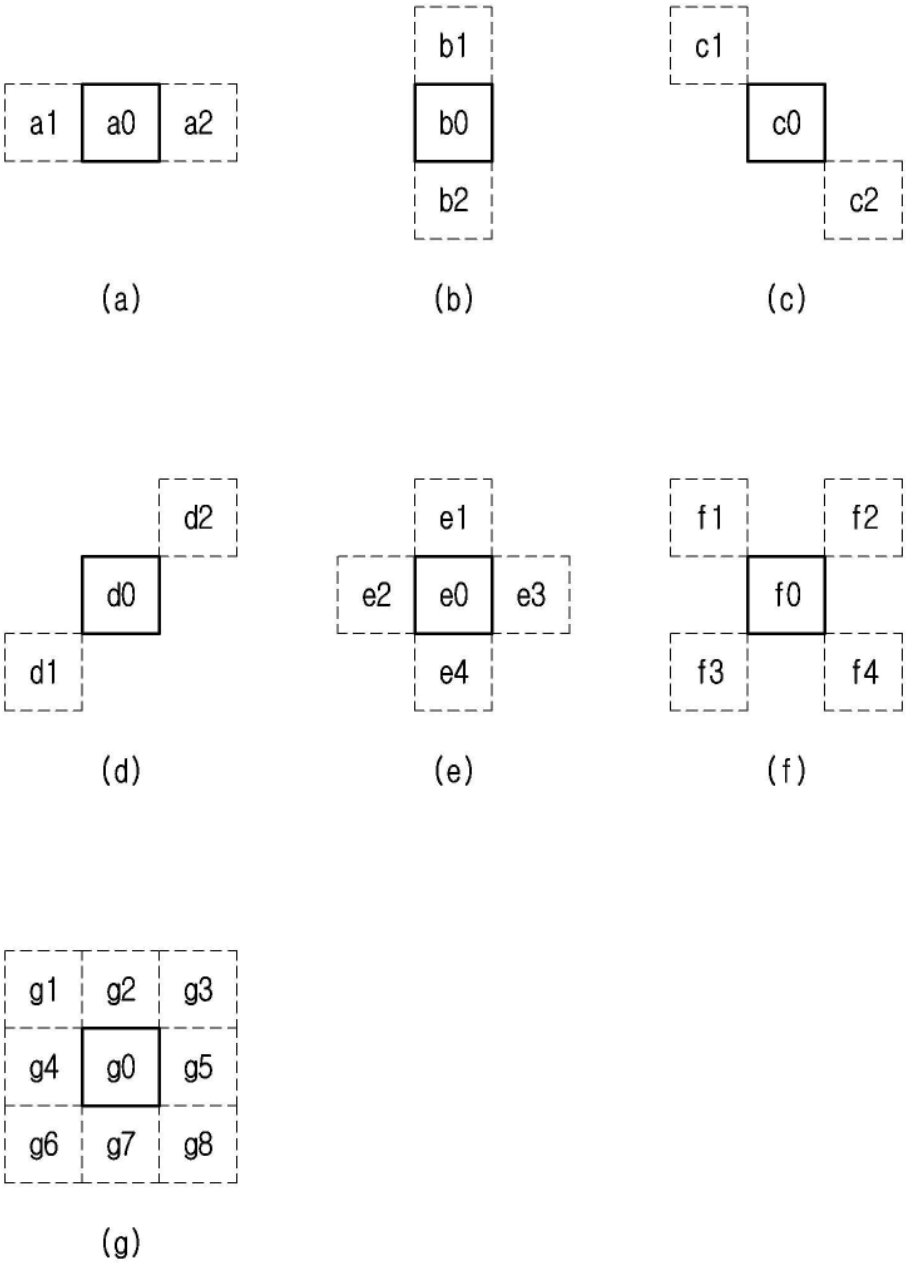

a1
a0
a2
(a)
b1
b0
b2
(b)
c1
c0
c2
(c)
d2
d0
d1
(d)
e1
e2
e0
e3
e4
(e)
f1
f2
f0
f3
f4
(f)
g1
g2
g3
g4
g0
g5
g6
g7
g8
(g)

FIG. 20

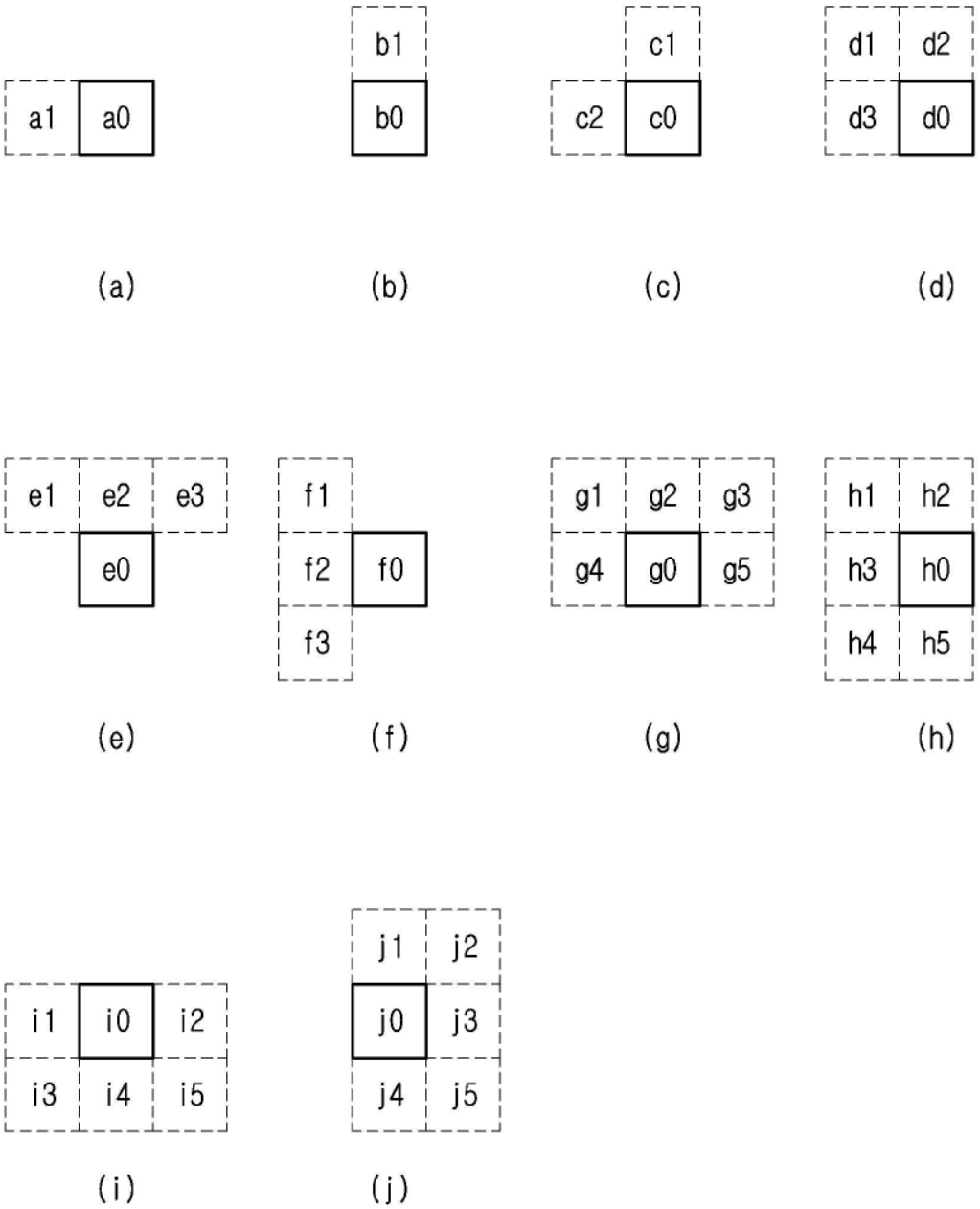

a1
a0
(a)
b1
b0
(b)
c1
c2
c0
(c)
d1
d2
d3
d0
(d)
e1
e2
e3
e0
(e)
f1
f2
f0
f3
(f)
g1
g2
g3
g4
g0
g5
(g)
h1
h2
h3
h0
h4
h5
(h)
i1
i0
i2
i3
i4
i5
(i)
j1
j2
j0
j3
j4
j5
(j)

FIG. 21

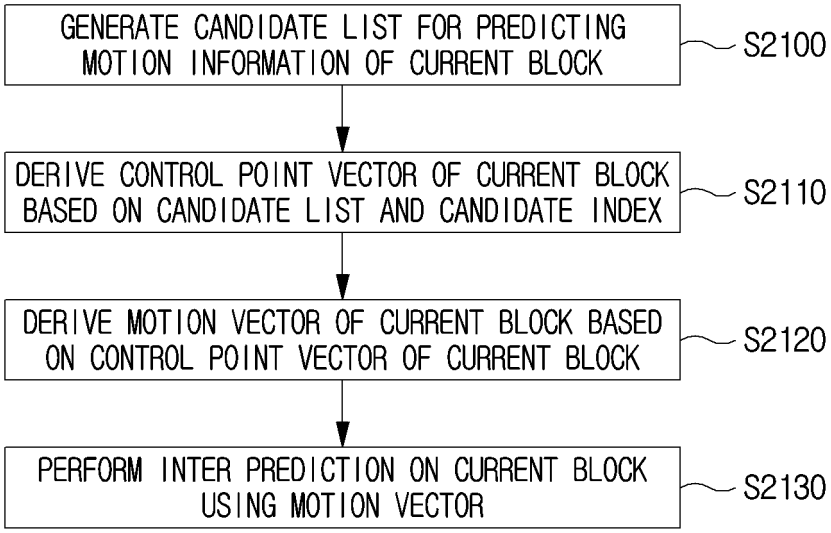

GENERATE CANDIDATE LIST FOR PREDICTING MOTION INFORMATION OF CURRENT BLOCK
S2100
DERIVE CONTROL POINT VECTOR OF CURRENT BLOCK BASED ON CANDIDATE LIST AND CANDIDATE INDEX
S2110
DERIVE MOTION VECTOR OF CURRENT BLOCK BASED ON CONTROL POINT VECTOR OF CURRENT BLOCK
S2120
PERFORM INTER PREDICTION ON CURRENT BLOCK USING MOTION VECTOR
S2130

FIG. 22

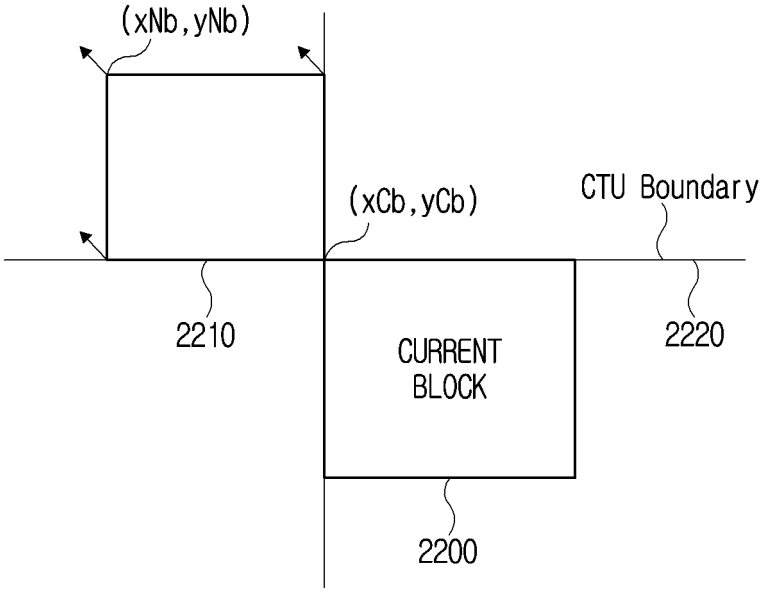
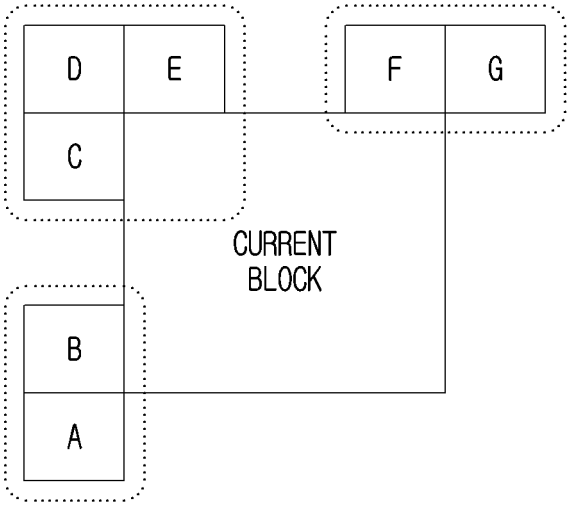

(xNb,yNb)
(xCb,yCb)
CTU Boundary
2210
CURRENT
BLOCK
2220
2200

FIG. 23


D
E
F
G
C
CURRENT
BLOCK
B
A