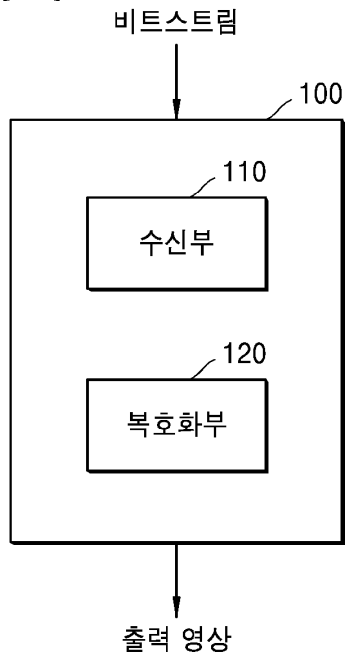
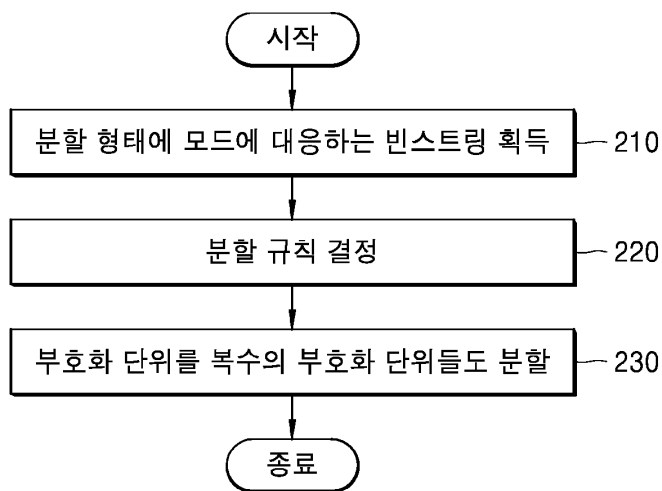


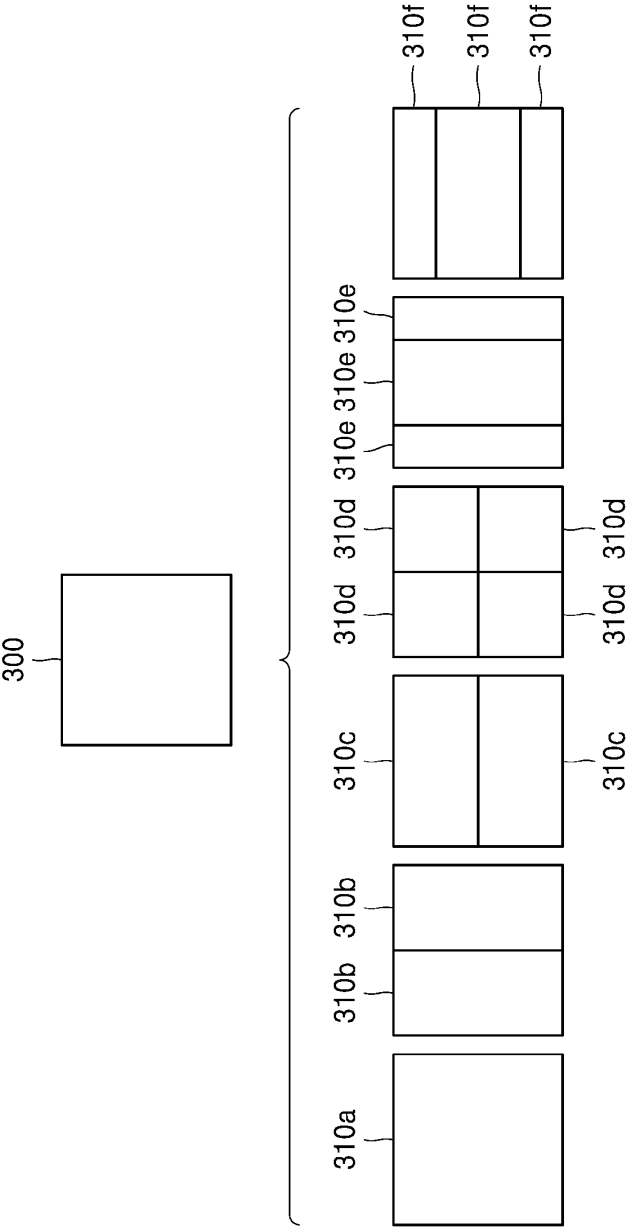
[도1]



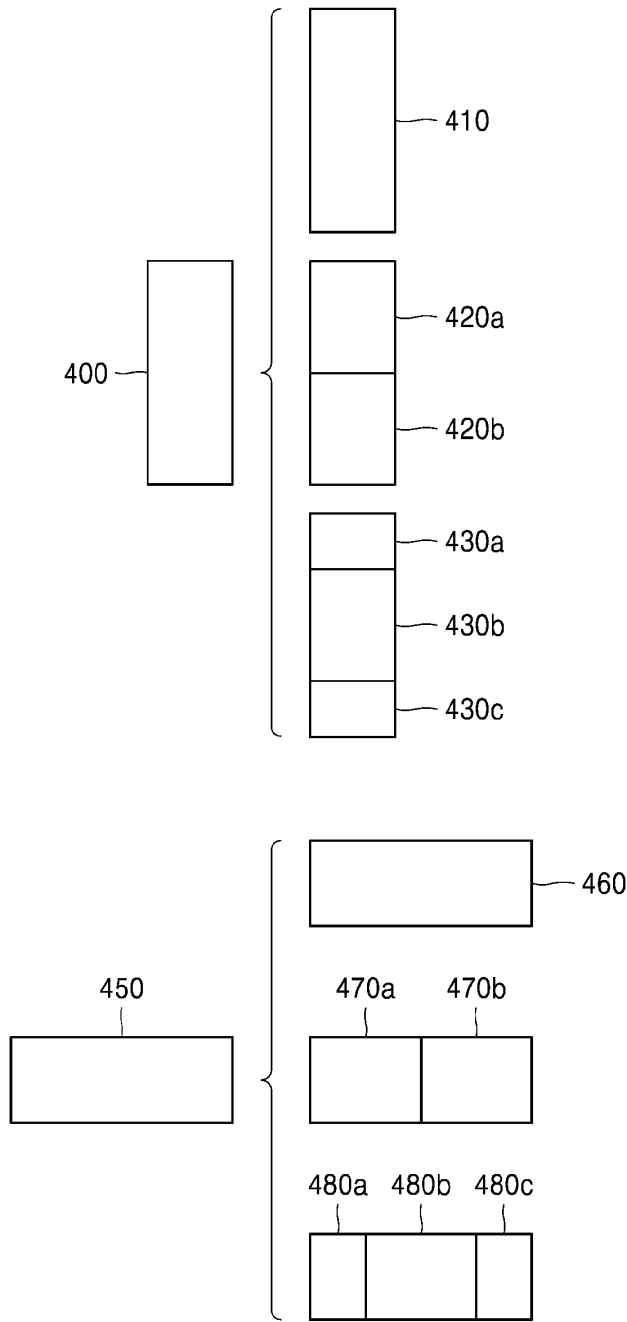
[도2]



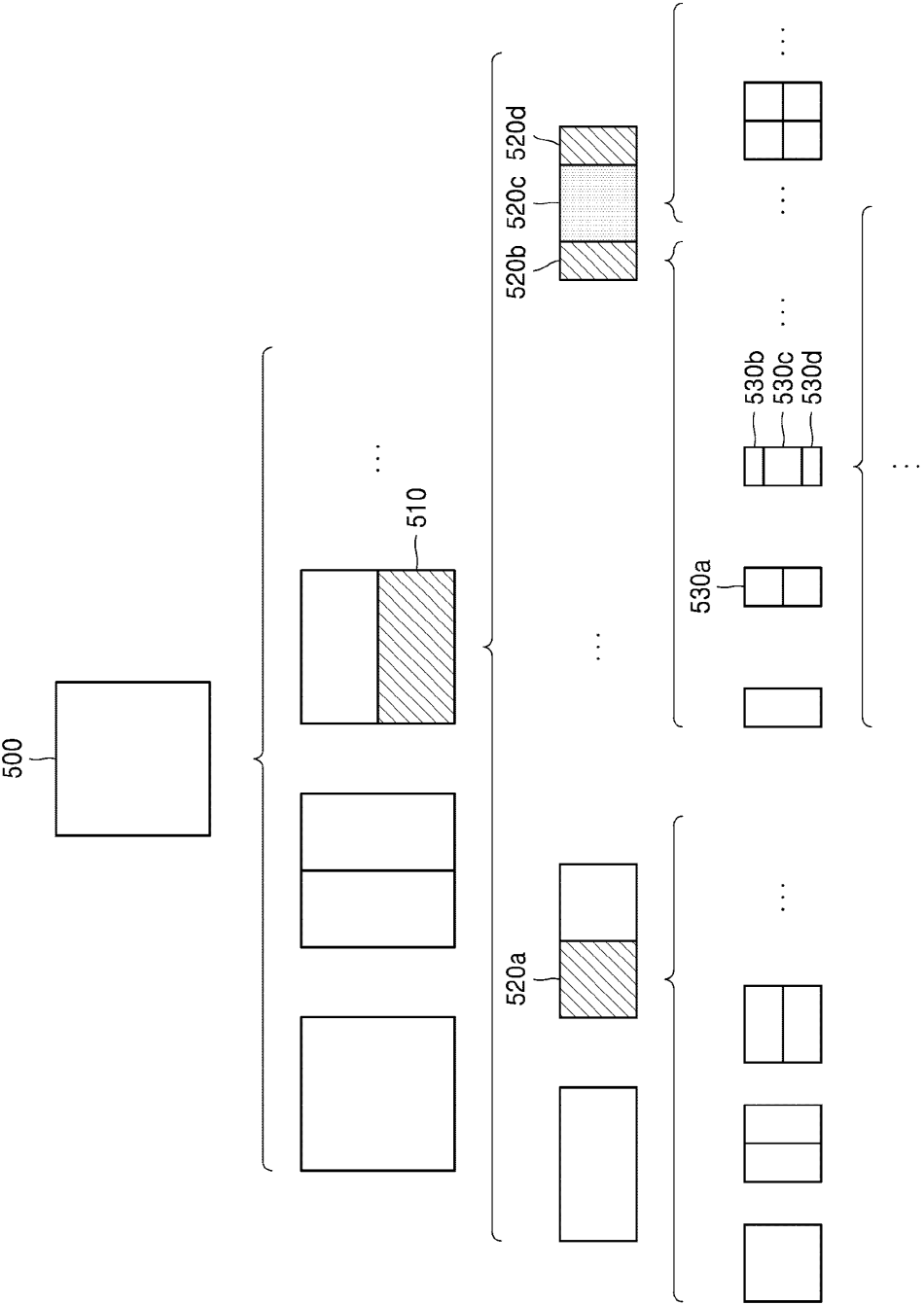
[도3]



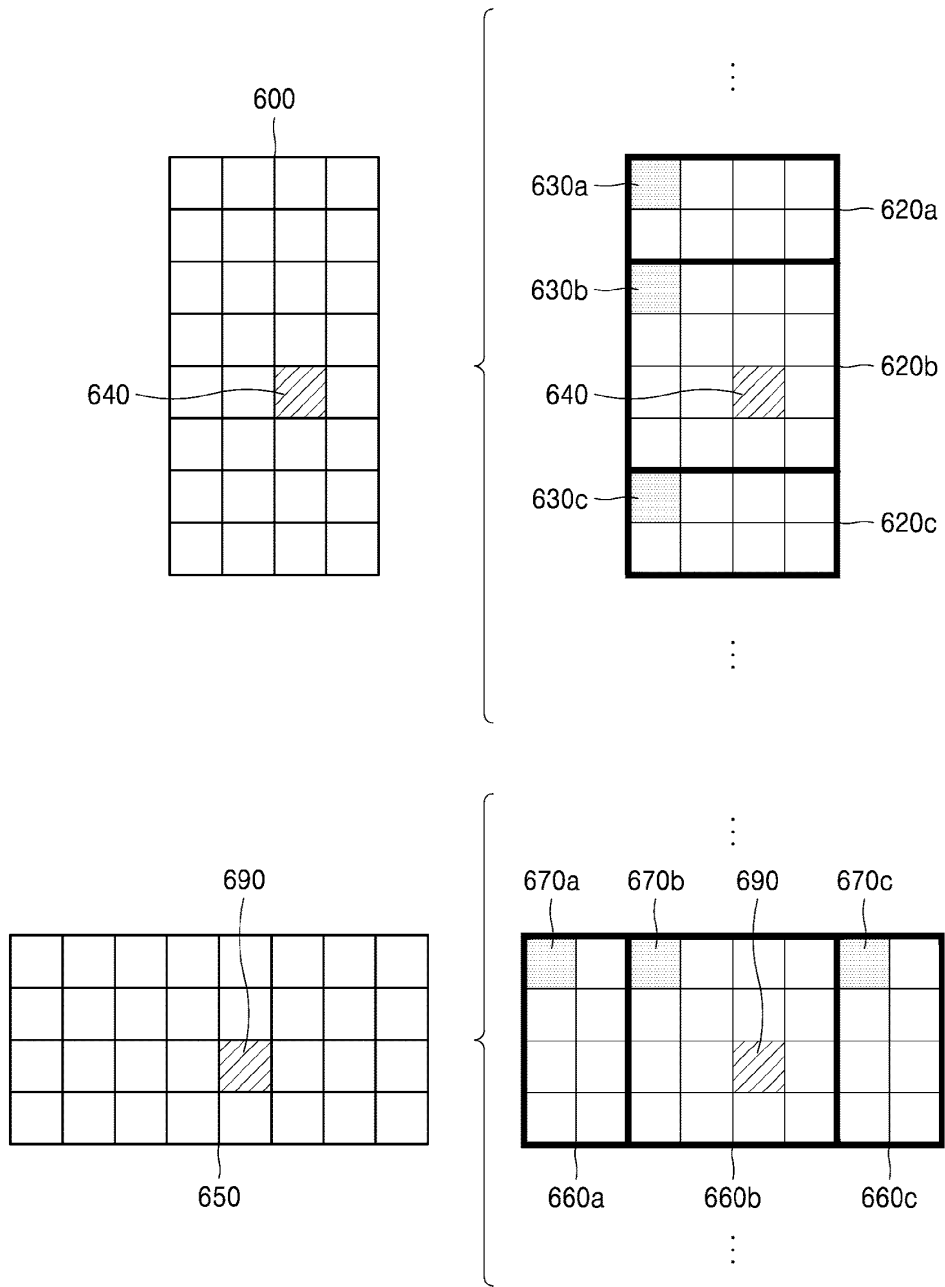
[도4]



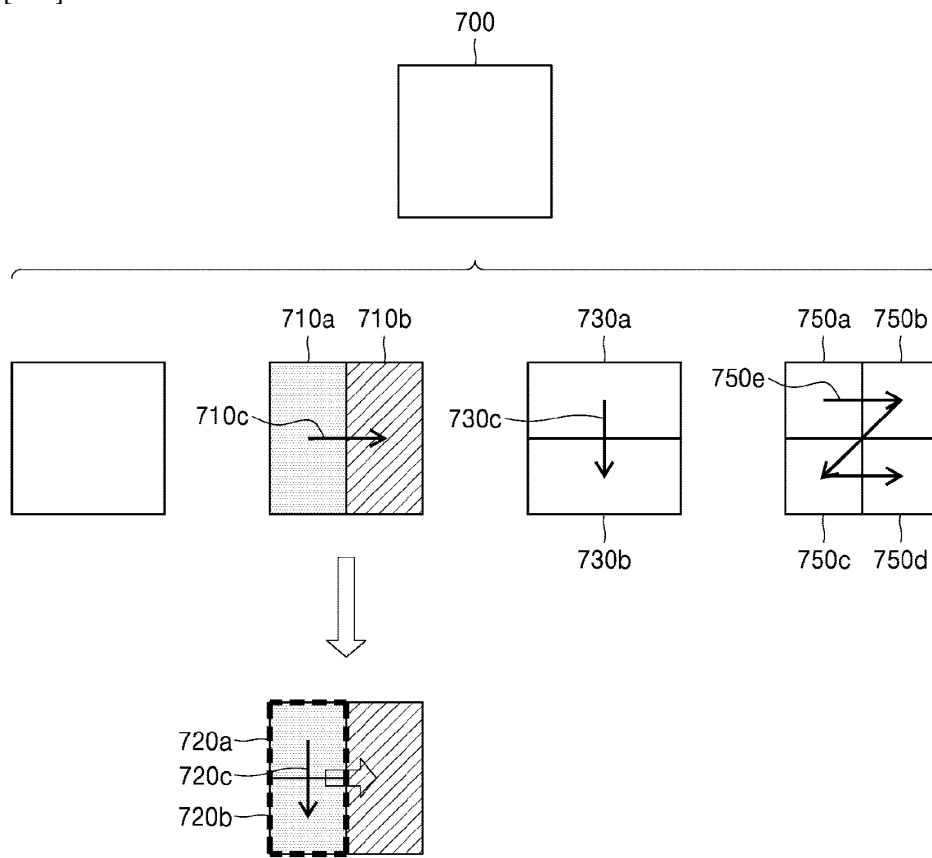
[도5]



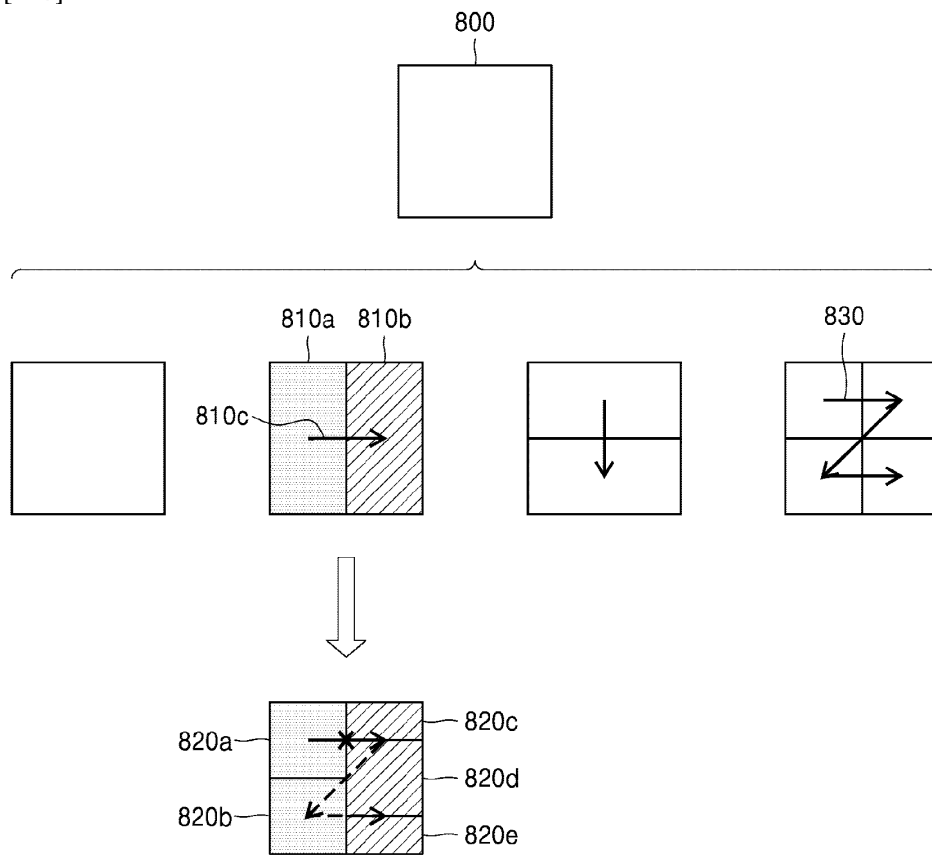
[도6]



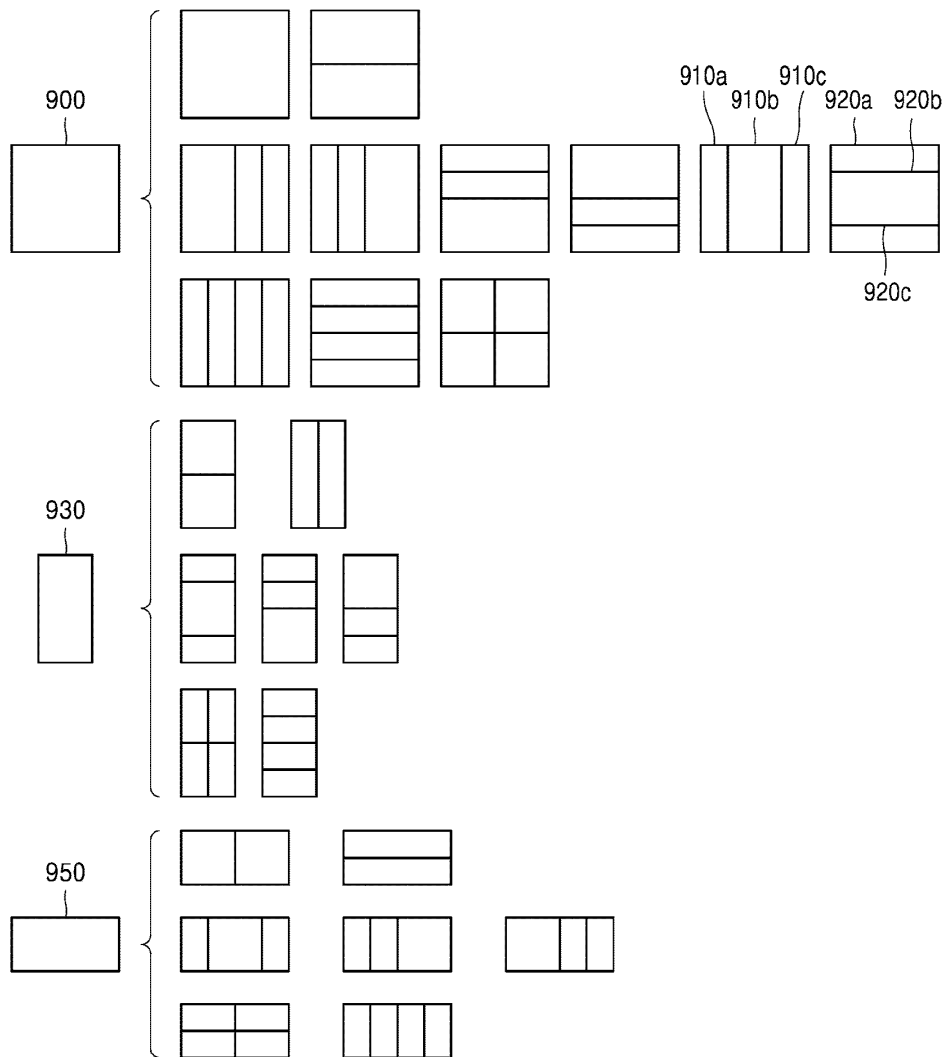
[도7]



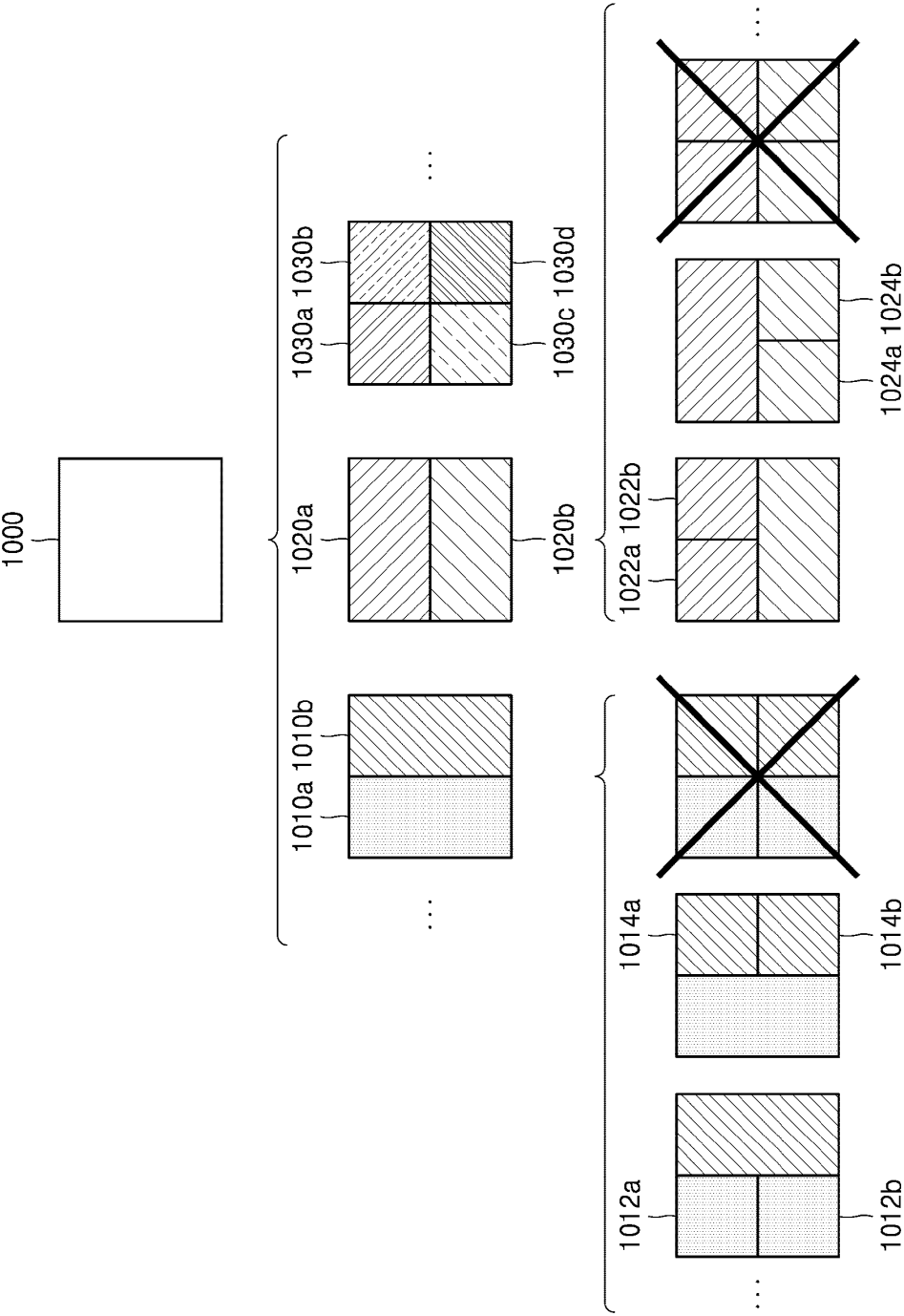
[도8]



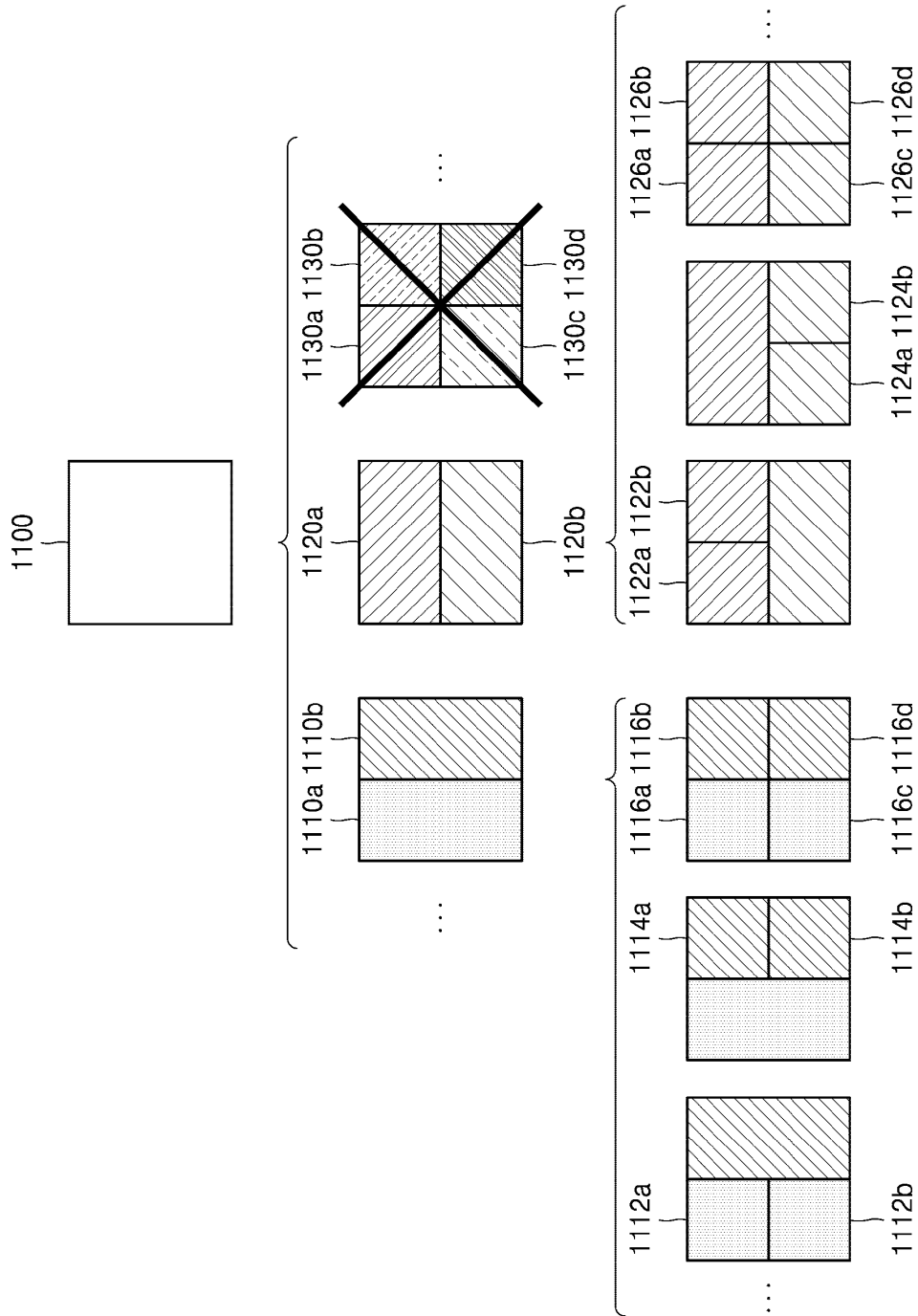
[도9]



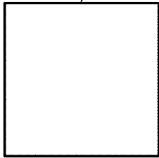
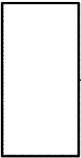
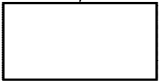
[도 10]



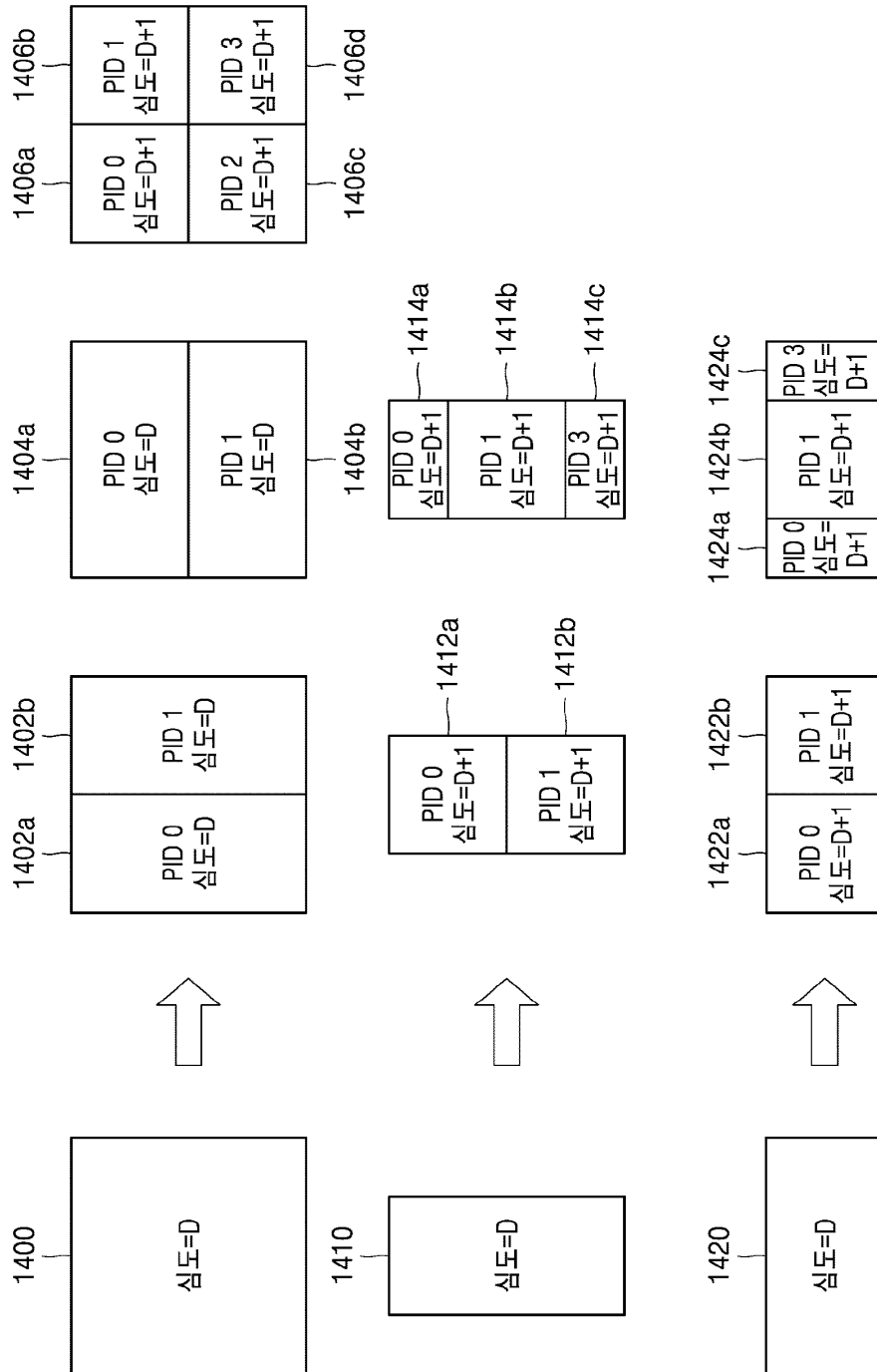
[도11]



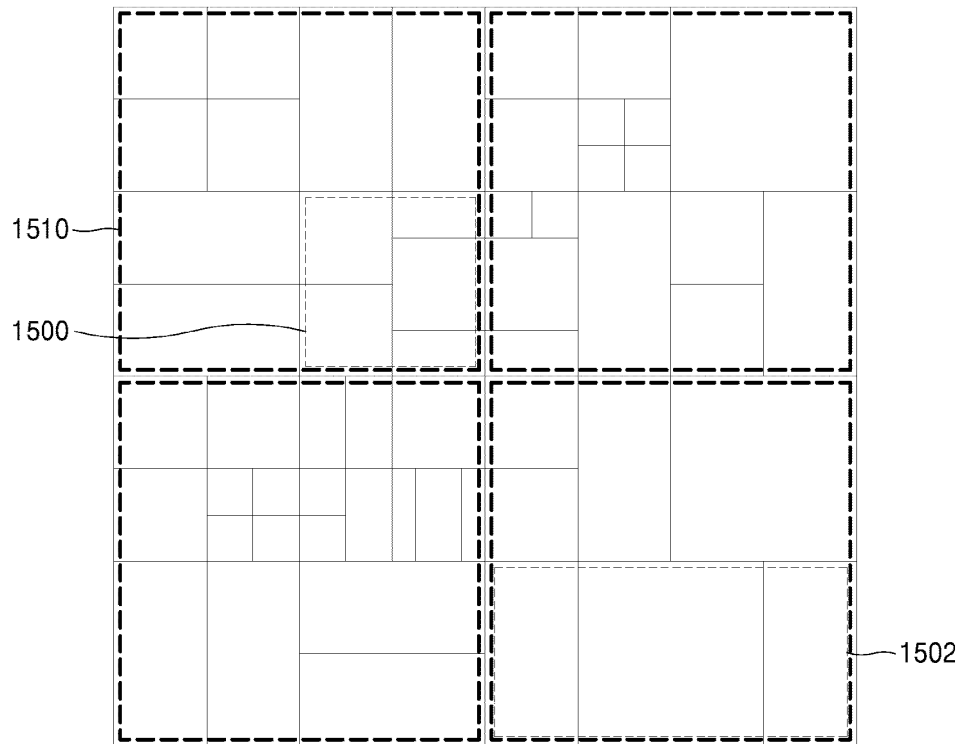
[도13]

심도 \ 블록 형태	0: SQUARE	1: NS_VER	2: NS_HOR
심도 D	1300 	 1310	1320 
심도 D+1	 1302	 1312	 1322
심도 D+2	 1304	 1314	 1324
...	...	...	...

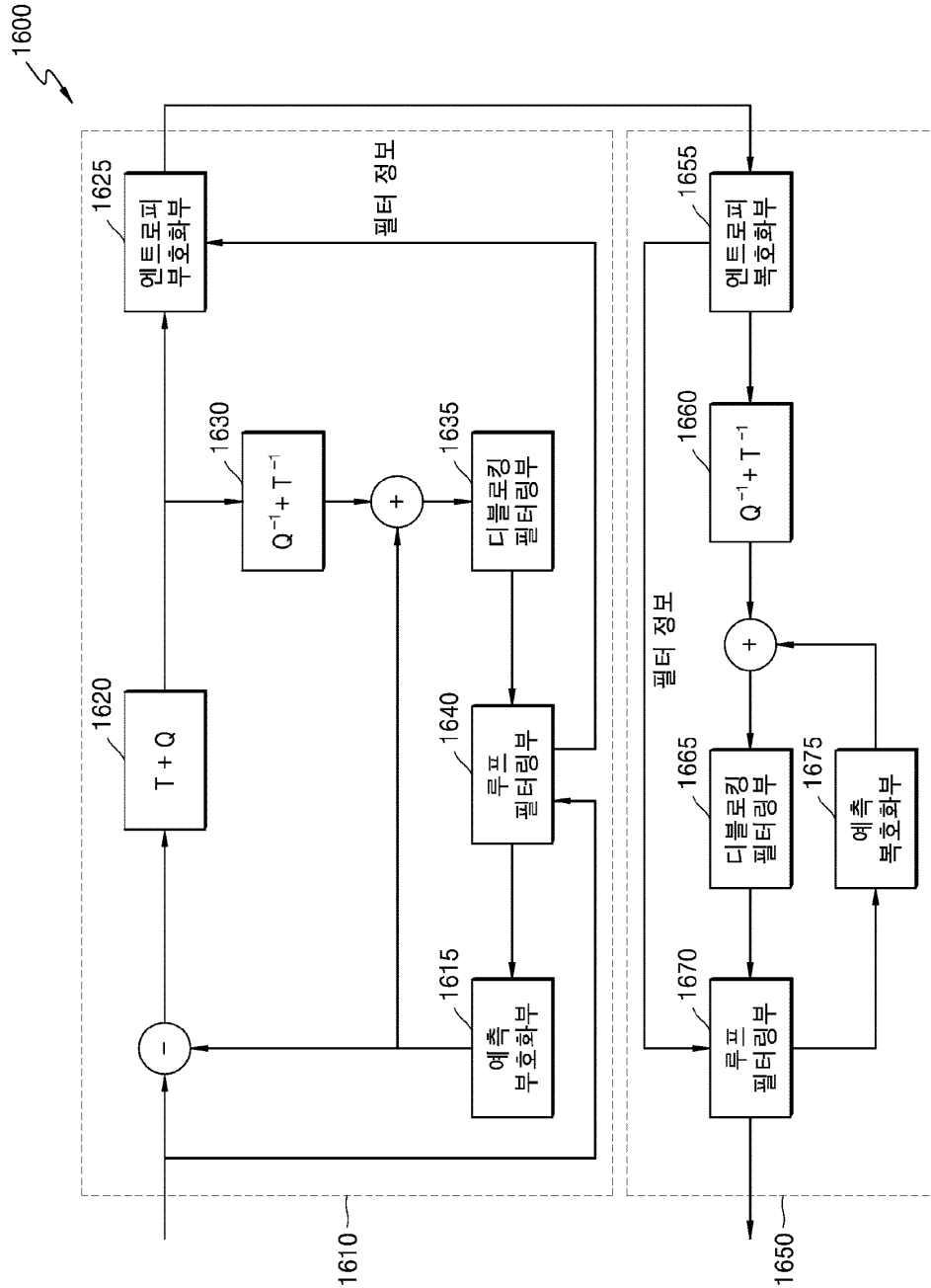
[도 14]



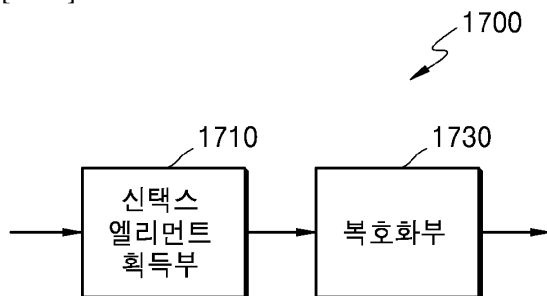
[도 15]



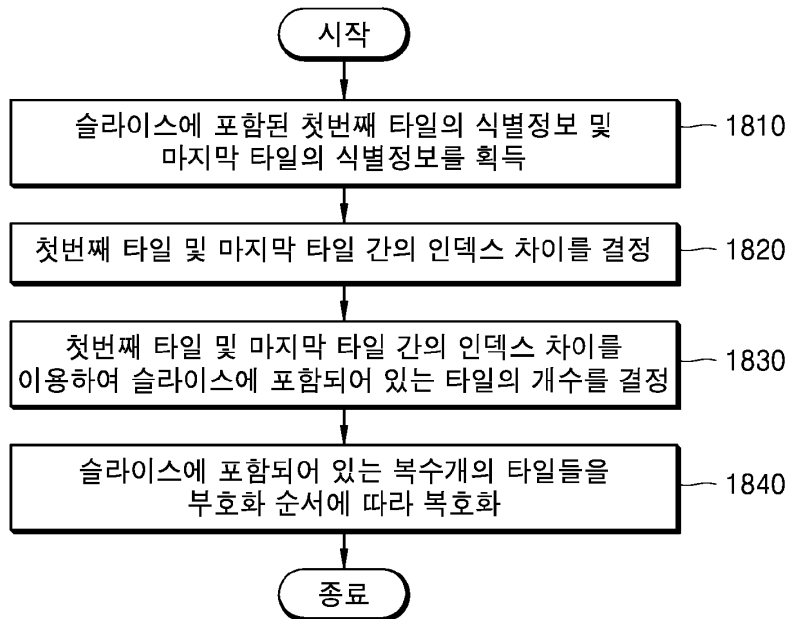
[도16]



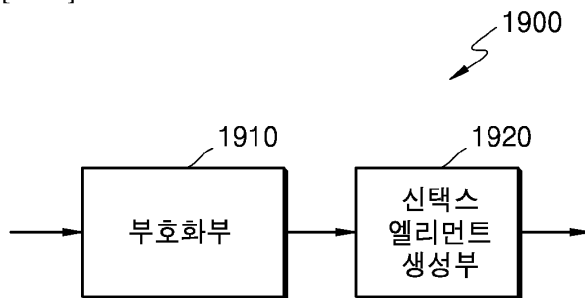
[도17]



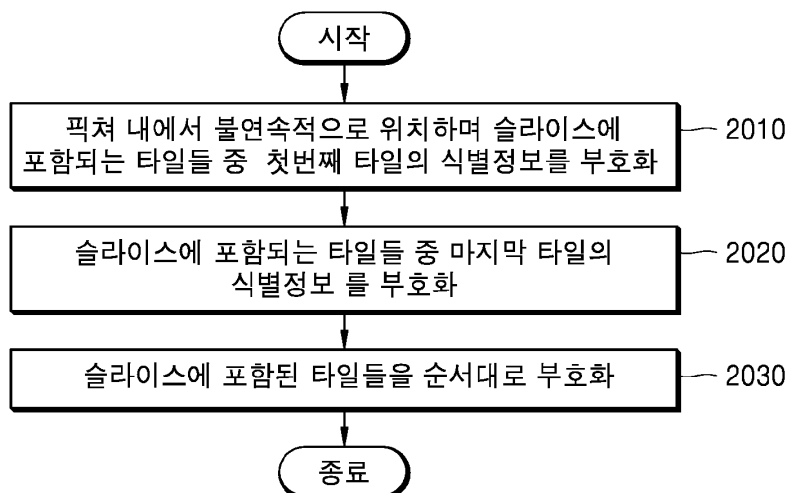
[도18]



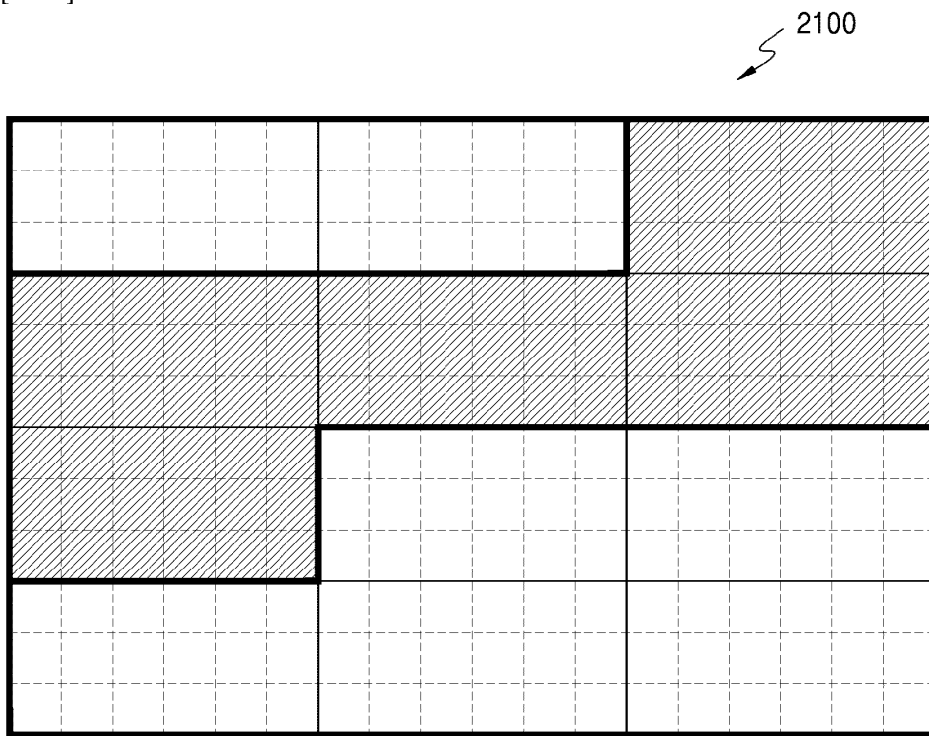
[도19]



[도20]



[도21]

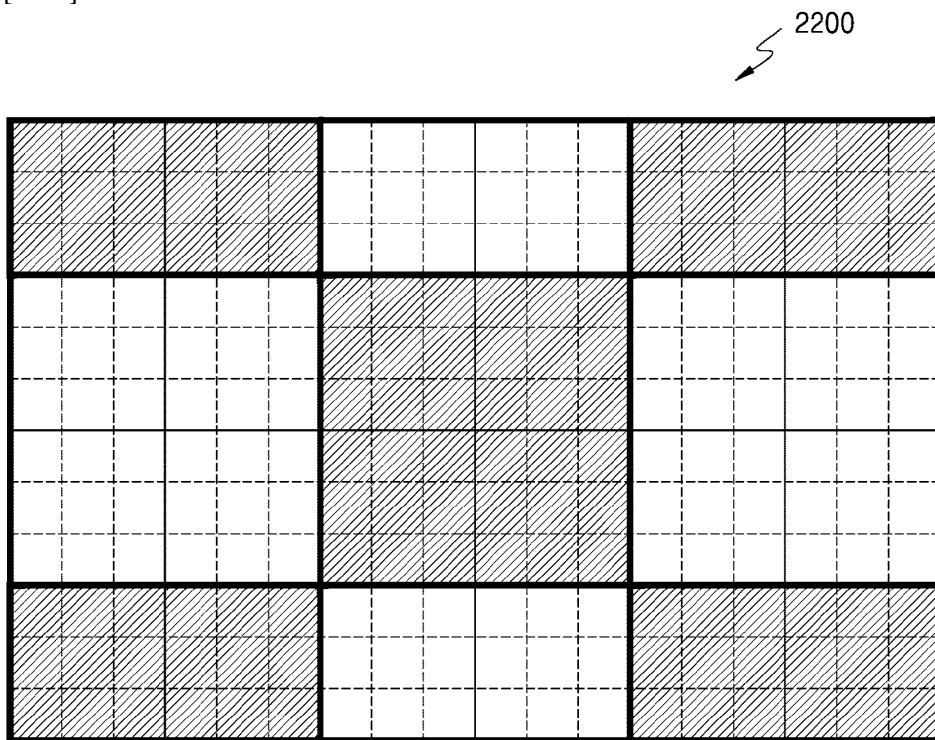
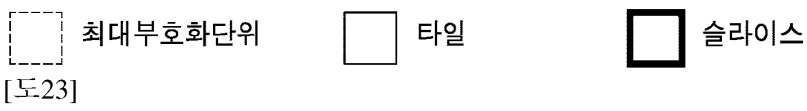


 최대부호화단위

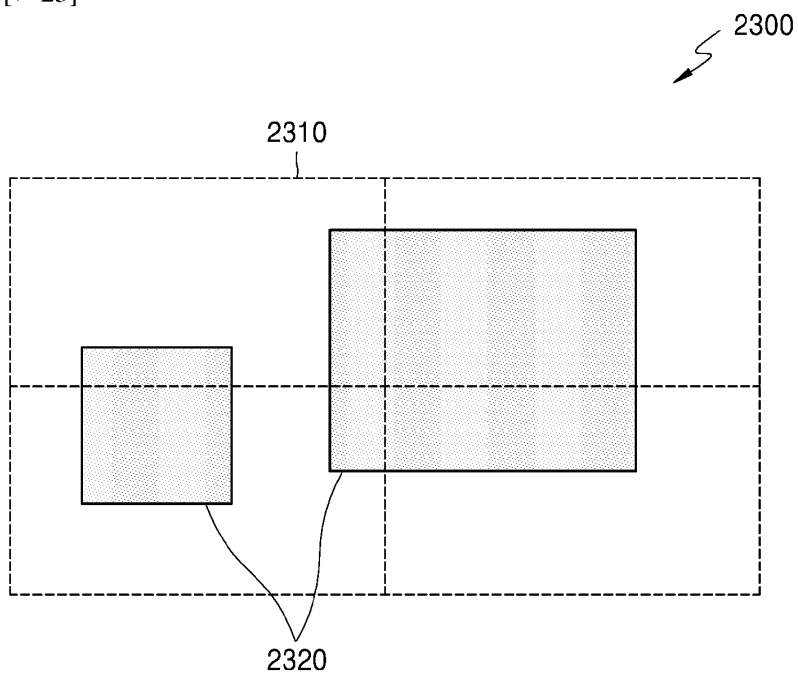
 타일

 슬라이스

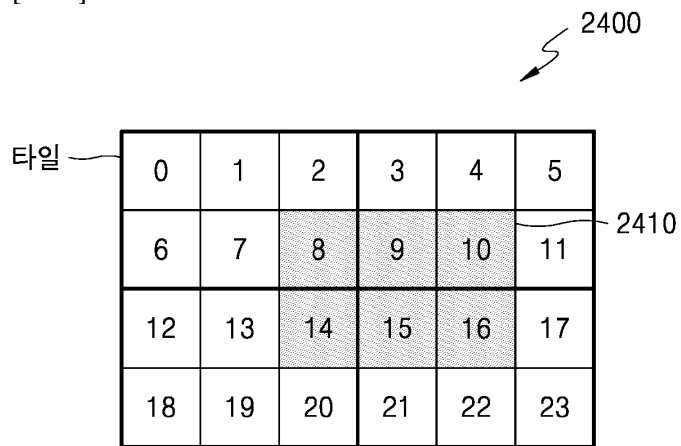
[도22]



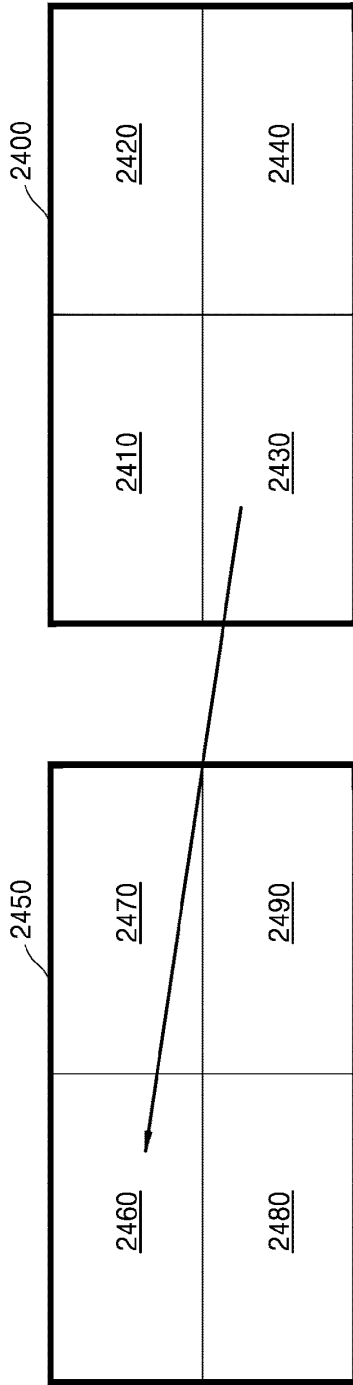
[도23]



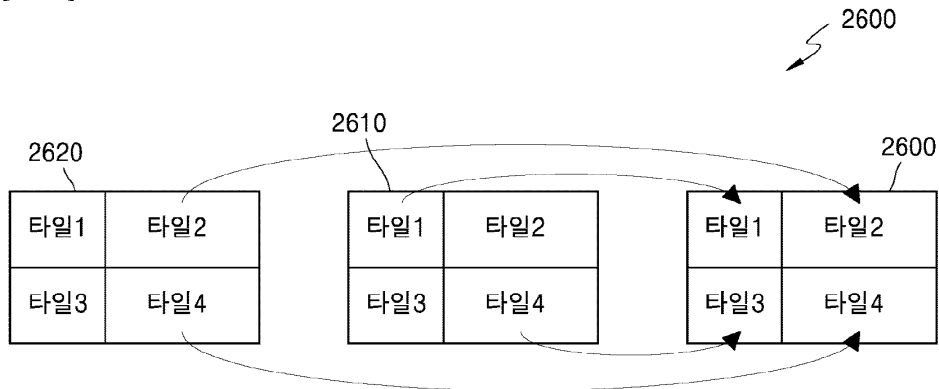
[도24]



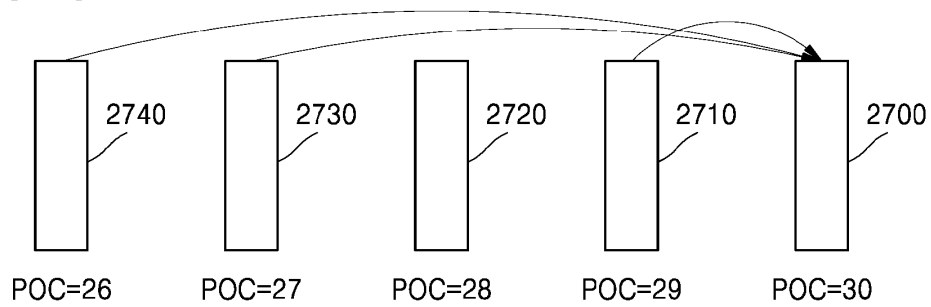
[도 25]



[도26]

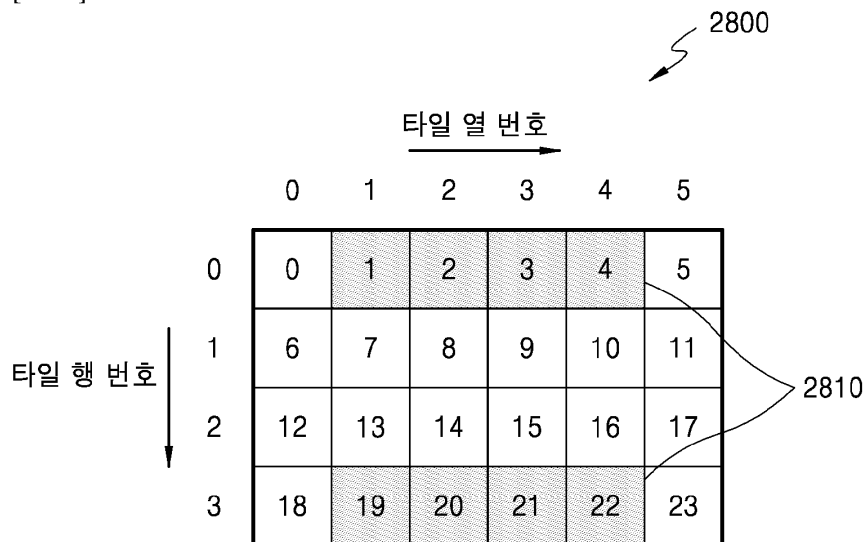


[도27]

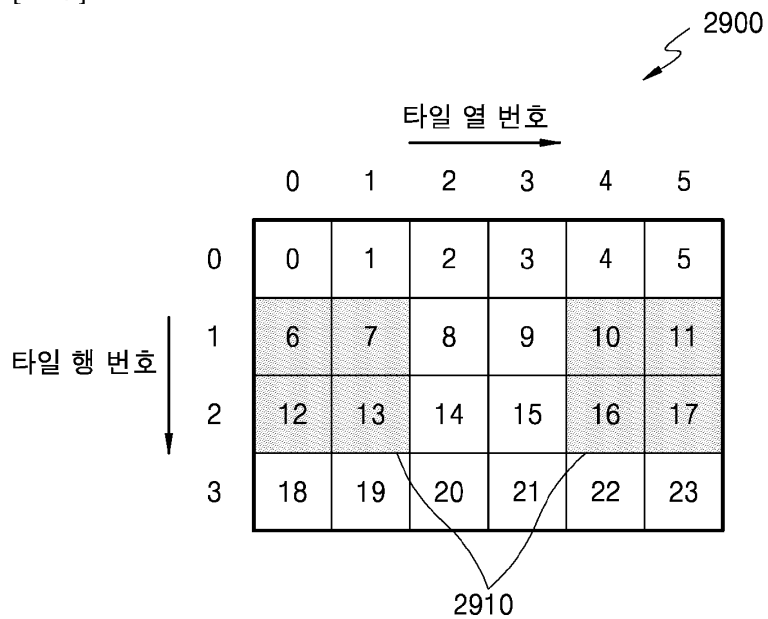


RPL(PoC) RPL(PoC차분) RPL
 [0] 29 [0]-1 (29-30) [0]-1 (29-30)
 [1] 27 [1]-3 (27-30) [1]-2 (27-29)
 [2] 26 [2]-4 (26-30) [2]-1 (26-27)

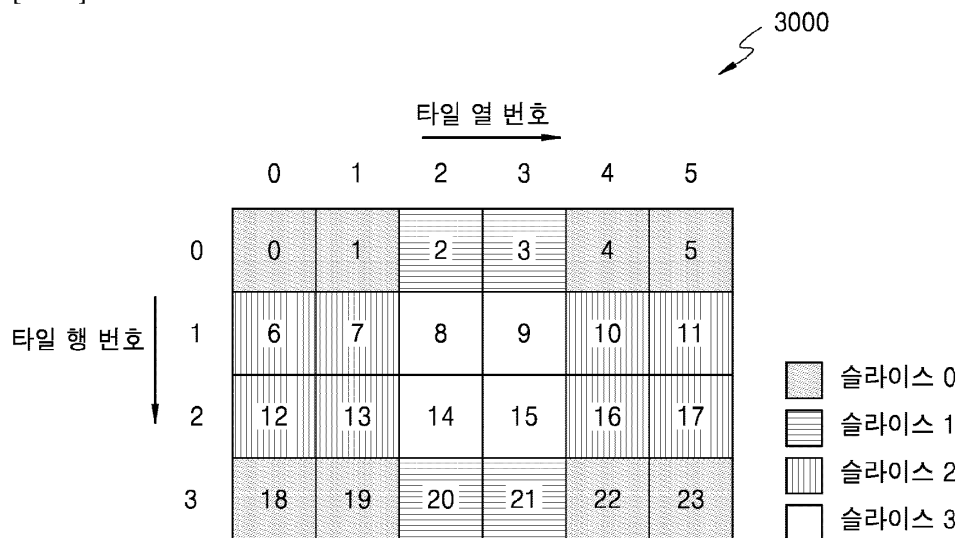
[도28]



[도29]



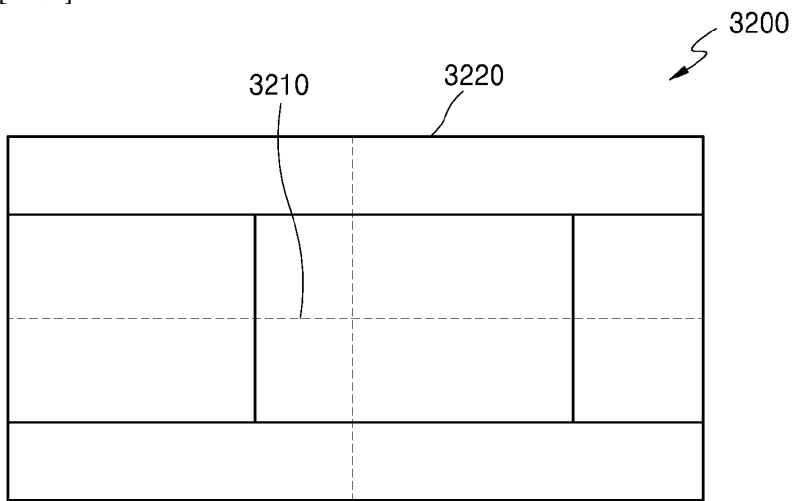
[도30]



[도31]

슬라이스 번호	첫번째 타일 번호	마지막 타일 번호	타일 순서
슬라이스 0	22	1	22,23,18,19,4,5,0,1
슬라이스 1	20	3	20,21,2,3
슬라이스 2	10	13	10,11,6,7,16,17,12,13
슬라이스 3	8	15	8,9,14,15

[도32]



[도33]

Diagram 3200 illustrates a 4x4 grid of numbered cells. The cells are numbered sequentially from 0 to 15, starting from the top-left cell (0) and moving right across each row. A squiggly arrow labeled 3200 points to the top-right corner of the grid.

0	1	2	3
4	5	6	7
8	9	10	11
12	13	14	15

[도34]

슬라이스 레이아웃 A (ROI)	슬라이스 레이아웃 B (병렬화)
슬라이스 0: 0, 1, 2, 3	슬라이스 0: 0, 1, 4, 5
슬라이스 1: 4, 8	슬라이스 1: 2, 3, 6, 7
슬라이스 2: 5, 6, 9, 10	슬라이스 2: 8, 9, 12, 13
슬라이스 3: 7, 11	슬라이스 3: 10, 11, 14, 15
슬라이스 4: 12, 13, 14, 15	

[도35]

tile_group_header() {	3500
top_left_tile_id	
bottom_right_tile_id	
}	

[도36]

tile_group_data() {	3500
tileidx = top_left_tile_id	
for(j = 0; j < NumTileRowsInTileGroup; j++, tileidx += num_tile_columns_minus1 + 1) {	
for(i = 0, CurrTileidx = tileidx; i < NumTileColumnsInTileGroup; i++, CurrTileidx++) {	
if(CurrTileidx / NumTileColumnsInTileGroup > tileidx / NumTileColumnsInTileGroup)	
CurrTileidx = CurrTileidx - NumTileColumnsInTileGroup;	
if(CurrTileidx / NumTileColumnsInTileGroup >= NumTileRowsInTileGroup)	
CurrTileidx = CurrTileidx - NumTilesInPic	
ctbAddrInTs = FirstCtbAddrInTs[CurrTileidx]	
for(k = 0; k < NumCtUsInTile[CurrTileidx]; k++, ctbAddrInTs++) {	
CtCtbAddrInRs = CtbAddrTsToRs[ctbAddrInTs]	
coding_tree_unit()	
}	
}	
}	

[圖37]

```

* deltaTileIdx = ( bottom_right_tile_id < top_left_tile_id ) ? bottom_right_tile_id - 3710
  top_left_tile_id + NumTilesInPic : ( ( top_left_tile_id % ( num_tile_columns_minus1 + 1 ) )
< ( bottom_right_tile_id % ( num_tile_columns_minus1 + 1 ) ) ) ? bottom_right_tile_id -
  top_left_tile_id + num_tile_columns_minus1 : bottom_right_tile_id - top_left_tile_id 3720 3730

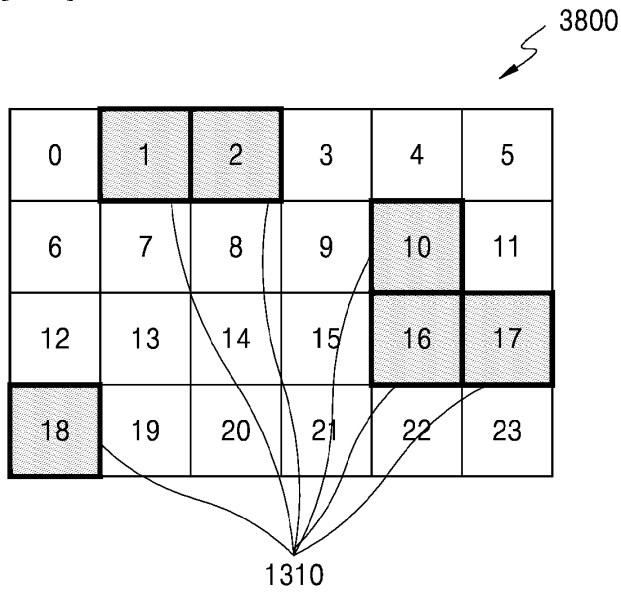
* NumTileRowsInTileGroup = ( deltaTileIdx / ( num_tile_columns_minus1 + 1 ) ) + 1 —3740

* NumTileColumnsInTileGroup = ( deltaTileIdx % ( num_tile_columns_minus1 + 1 ) ) + 1 —3750

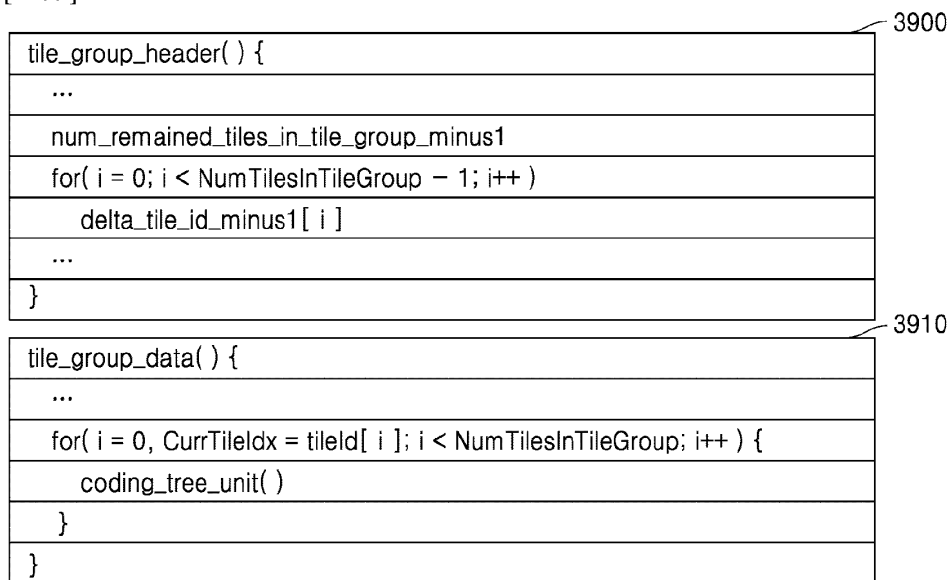
* NumTilesInTileGroup = NumTileRowsInTileGroup * NumTileColumnsInTileGroup —3760

```

[도38]



[도39]



[도40]

NumTilesInTileGroup = num_remained_tiles_in_tile_group_minus1 + 2 — 4010

tileId[i] = (i > 0) ? tileId[i - 1] + delta_tile_id_minus1[i] + 1 : top_left_tile_id — 4020