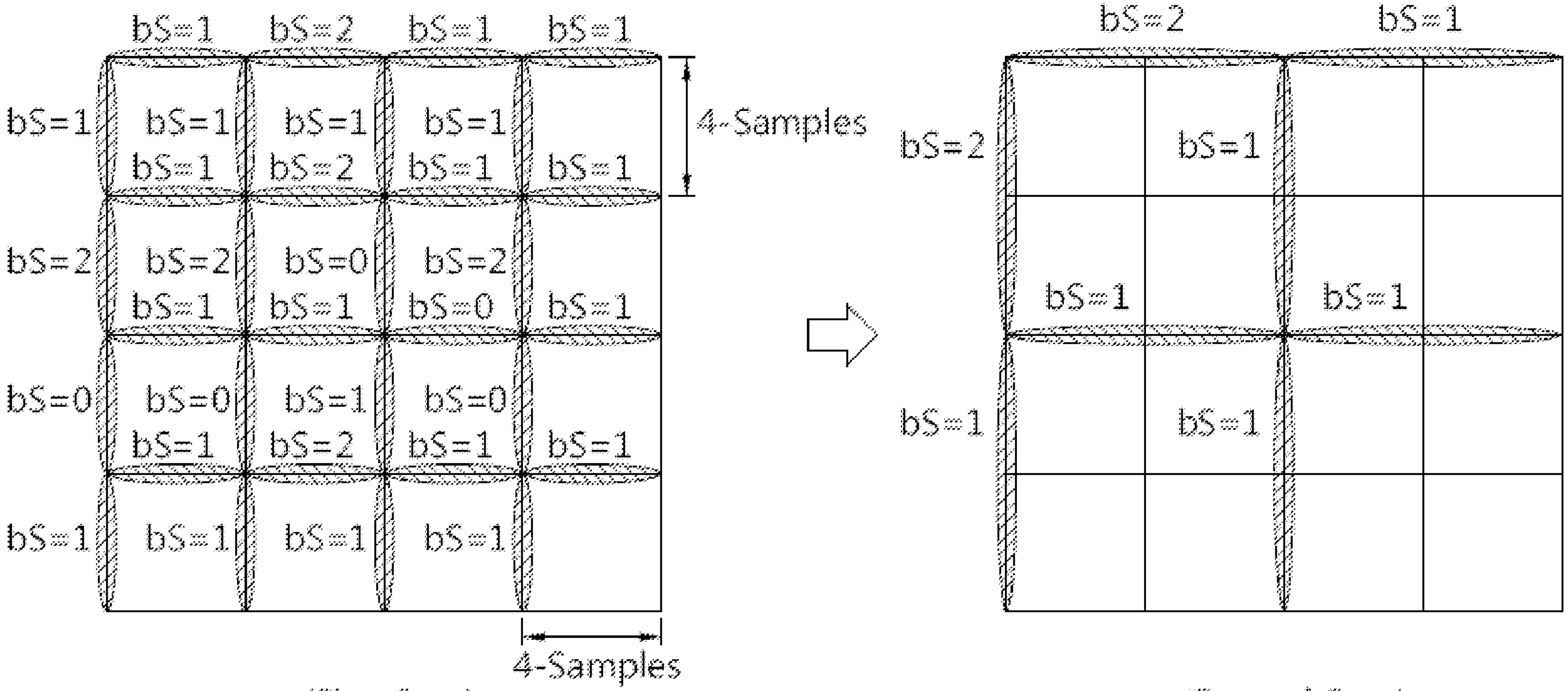


(First Step) (Second Step)

Fig 1

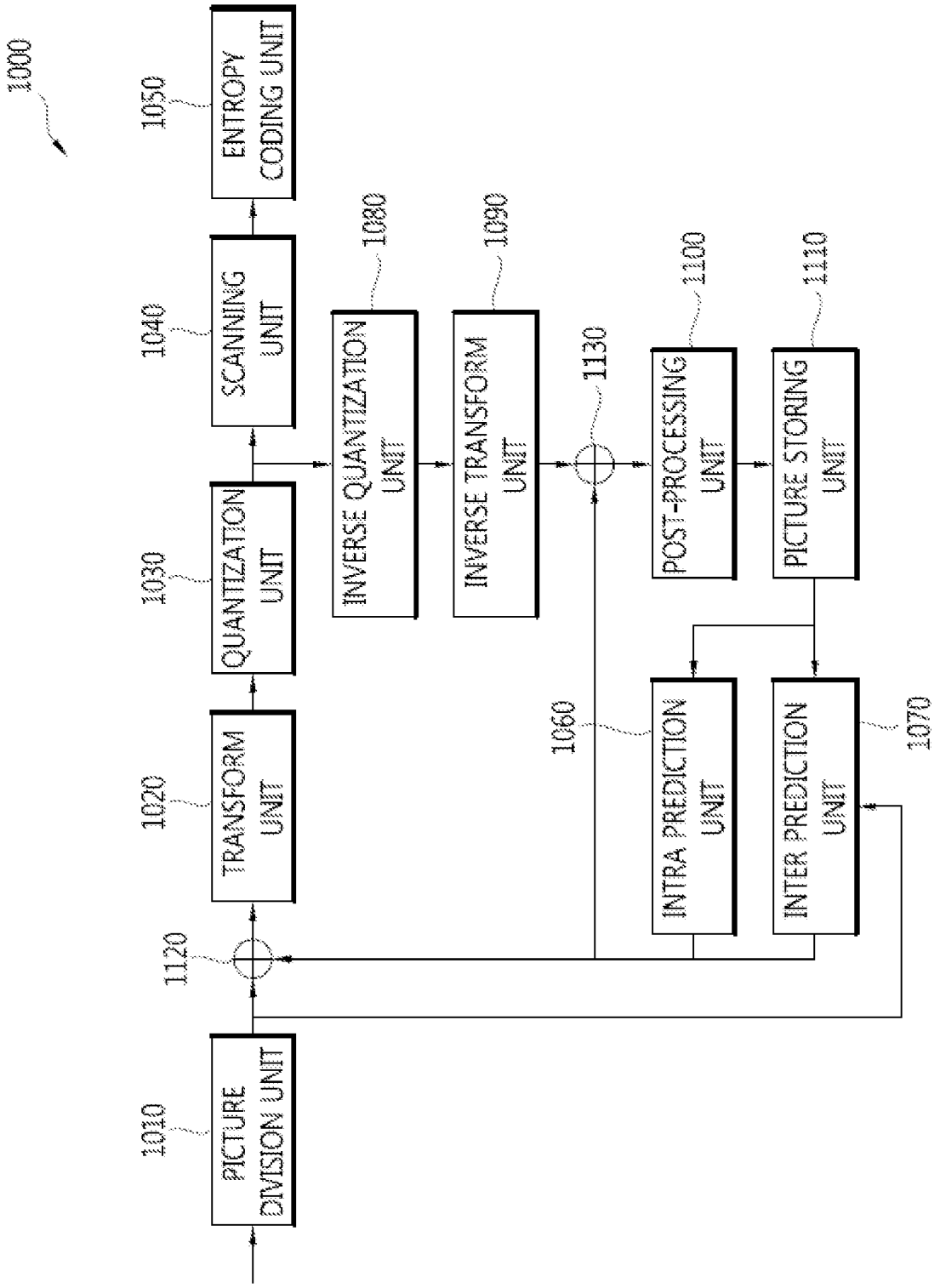

1000
1010
PICTURE DIVISION UNIT
1020
TRANSFORM UNIT
1030
QUANTIZATION UNIT
1040
SCANNING UNIT
1050
ENTROPY CODING UNIT
1060
INTRA PREDICTION UNIT
1070
INTER PREDICTION UNIT
1080
INVERSE QUANTIZATION UNIT
1090
INVERSE TRANSFORM UNIT
1100
POST-PROCESSING UNIT
1110
PICTURE STORING UNIT
1120
1130

Fig 2

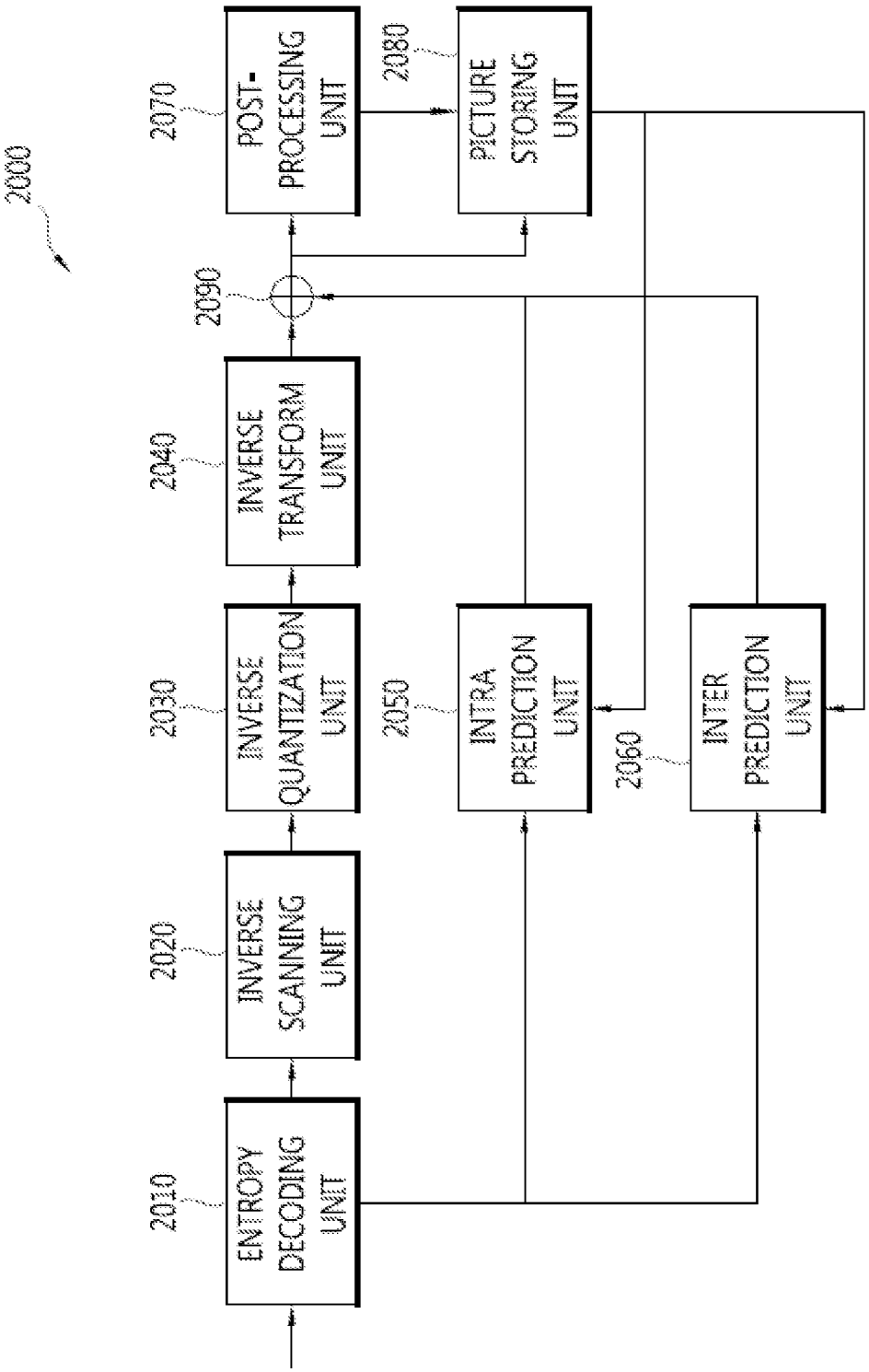

2000
2010
ENTROPY DECODING UNIT
2020
INVERSE SCANNING UNIT
2030
INVERSE QUANTIZATION UNIT
2040
INVERSE TRANSFORM UNIT
2050
INTRA PREDICTION UNIT
2060
INTER PREDICTION UNIT
2070
POST-PROCESSING UNIT
2080
PICTURE STORING UNIT
2090

Fig 3

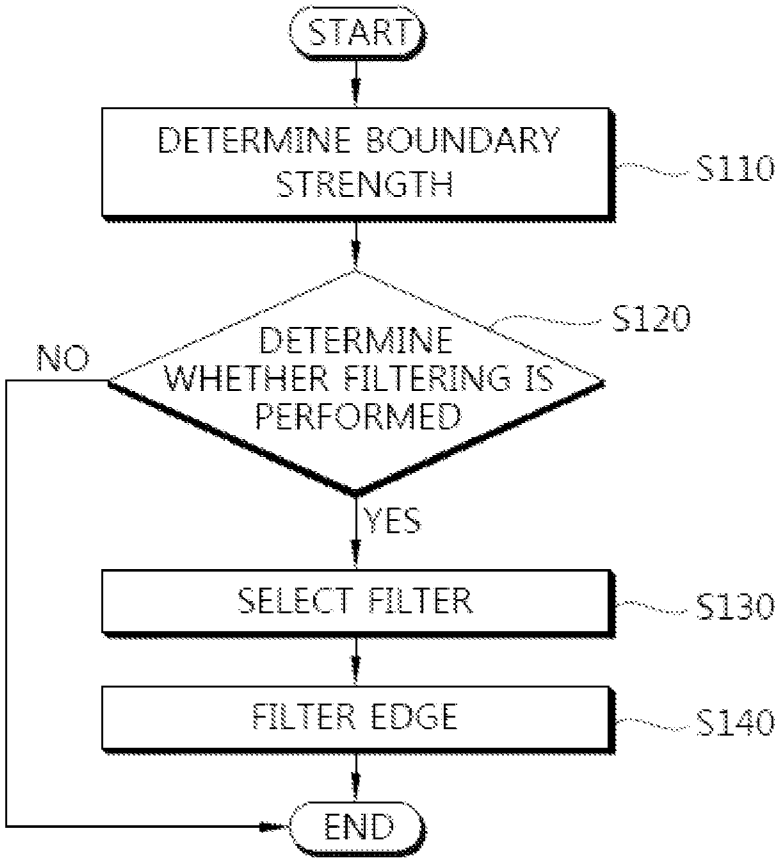

START
DETERMINE BOUNDARY STRENGTH
S110
DETERMINE WHETHER FILTERING IS PERFORMED
S120
NO
YES
SELECT FILTER
S130
FILTER EDGE
S140
END

Fig 4

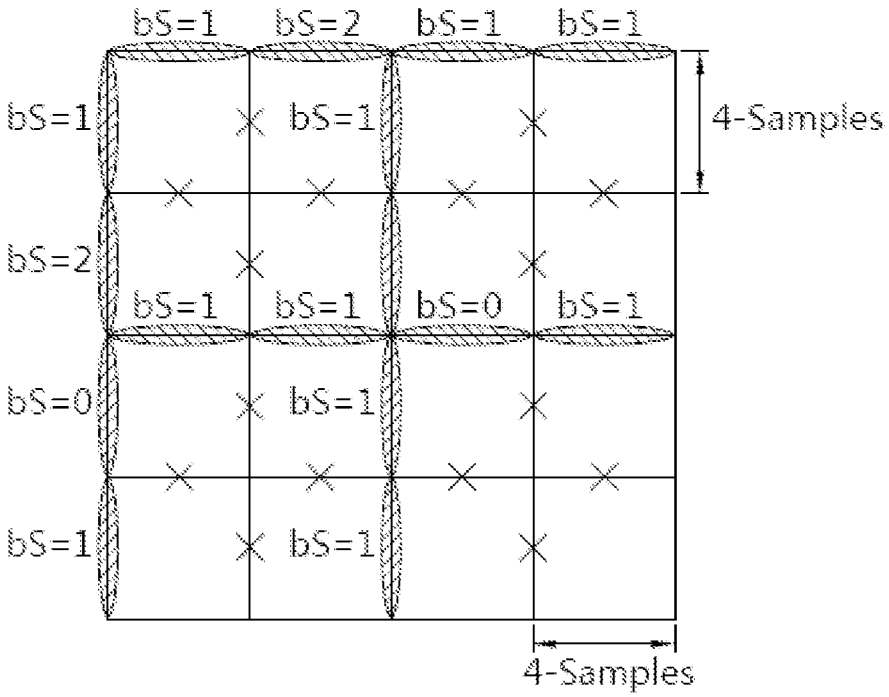

bS=1
bS=2
bS=1
bS=1
bS=1
bS=1
4-Samples
bS=2
bS=1
bS=1
bS=0
bS=1
bS=0
bS=1
bS=1
bS=1
4-Samples
(First Step)

Fig 5

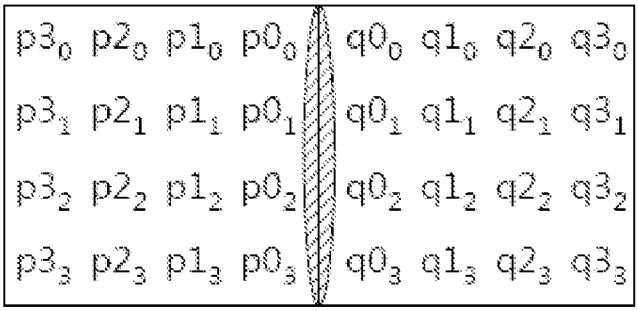

p3₀ p2₀ p1₀ p0₀ q0₀ q1₀ q2₀ q3₀
p3₁ p2₁ p1₁ p0₁ q0₁ q1₁ q2₁ q3₁
p3₂ p2₂ p1₂ p0₂ q0₂ q1₂ q2₂ q3₂
p3₃ p2₃ p1₃ p0₃ q0₃ q1₃ q2₃ q3₃

Fig 6

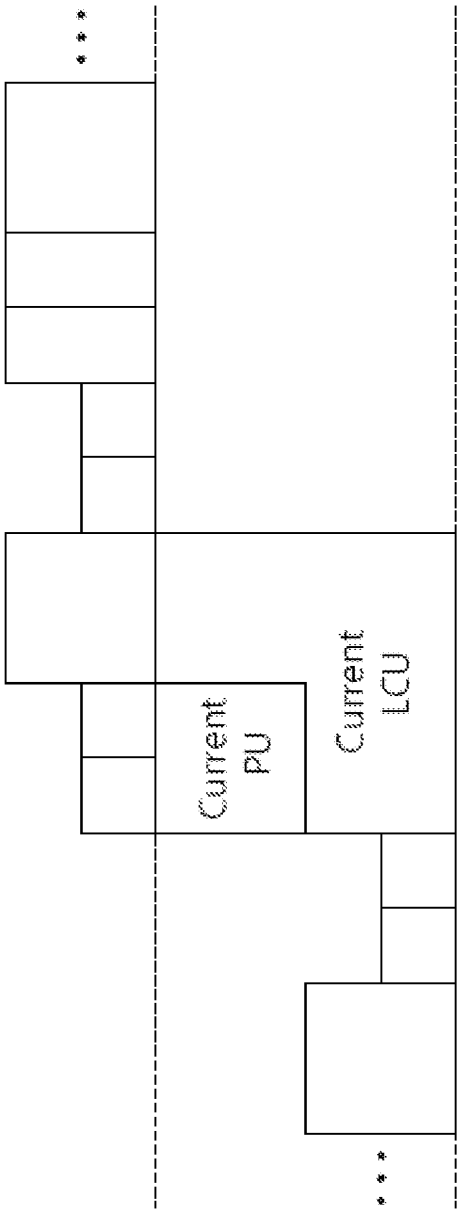


Fig 7

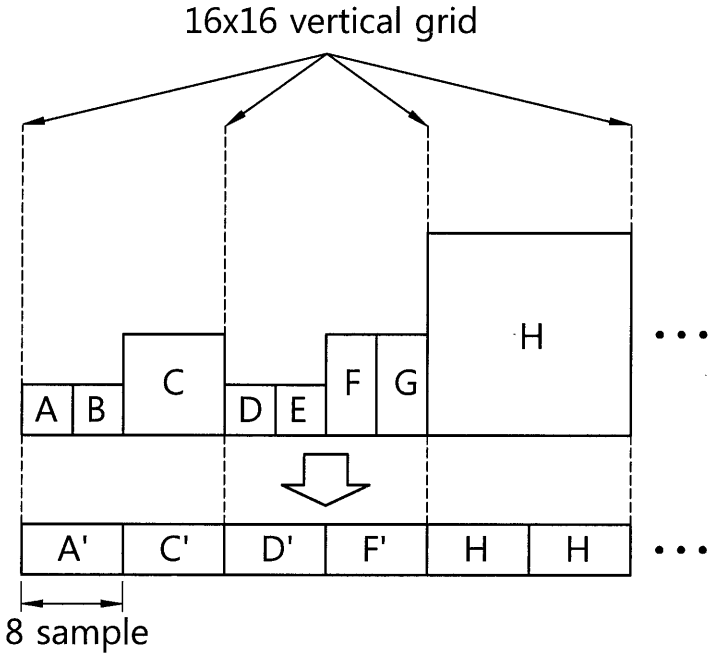


Fig 8

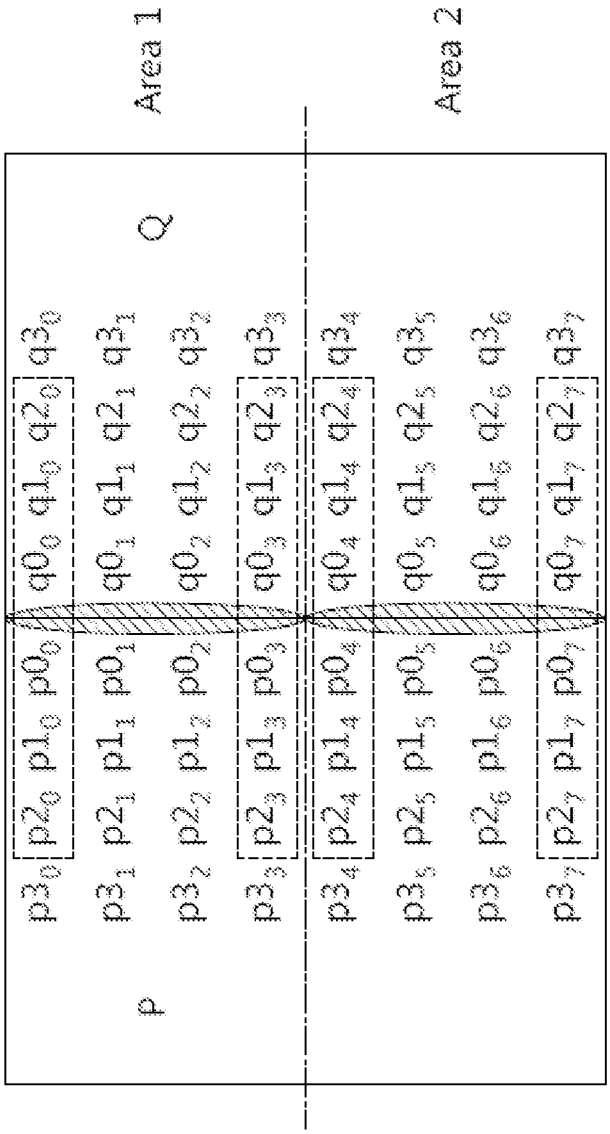

Area 1
Area 2
Q
P
p3₀ p2₀ p1₀ p0₀ q0₀ q1₀ q2₀ q3₀
p3₁ p2₁ p1₁ p0₁ q0₁ q1₁ q2₁ q3₁
p3₂ p2₂ p1₂ p0₂ q0₂ q1₂ q2₂ q3₂
p3₃ p2₃ p1₃ p0₃ q0₃ q1₃ q2₃ q3₃
p3₄ p2₄ p1₄ p0₄ q0₄ q1₄ q2₄ q3₄
p3₅ p2₅ p1₅ p0₅ q0₅ q1₅ q2₅ q3₅
p3₆ p2₆ p1₆ p0₆ q0₆ q1₆ q2₆ q3₆
p3₇ p2₇ p1₇ p0₇ q0₇ q1₇ q2₇ q3₇

Fig 9