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FIG. 1

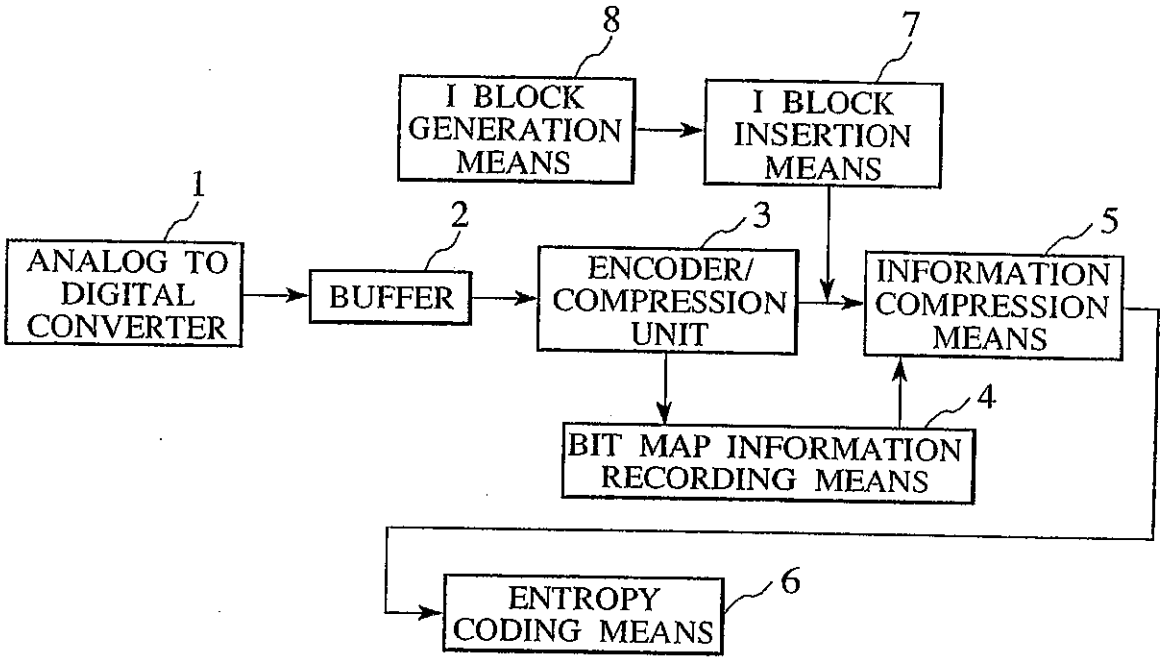
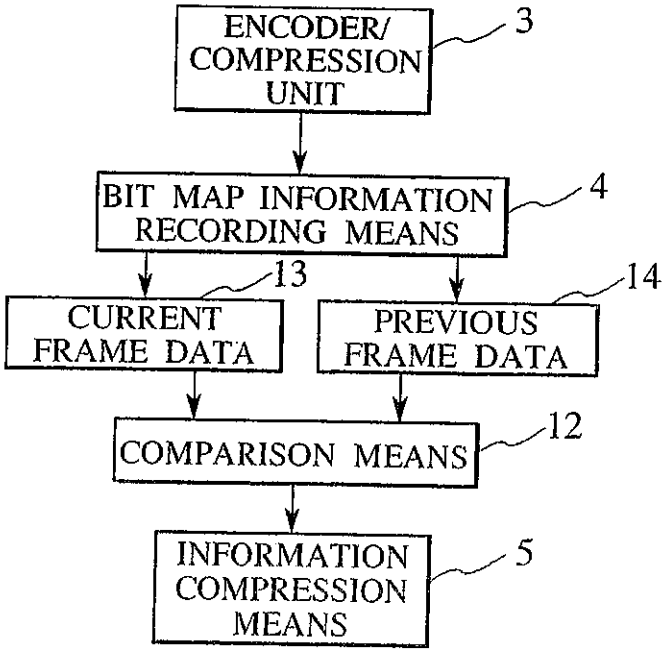


FIG. 2



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FIG. 3

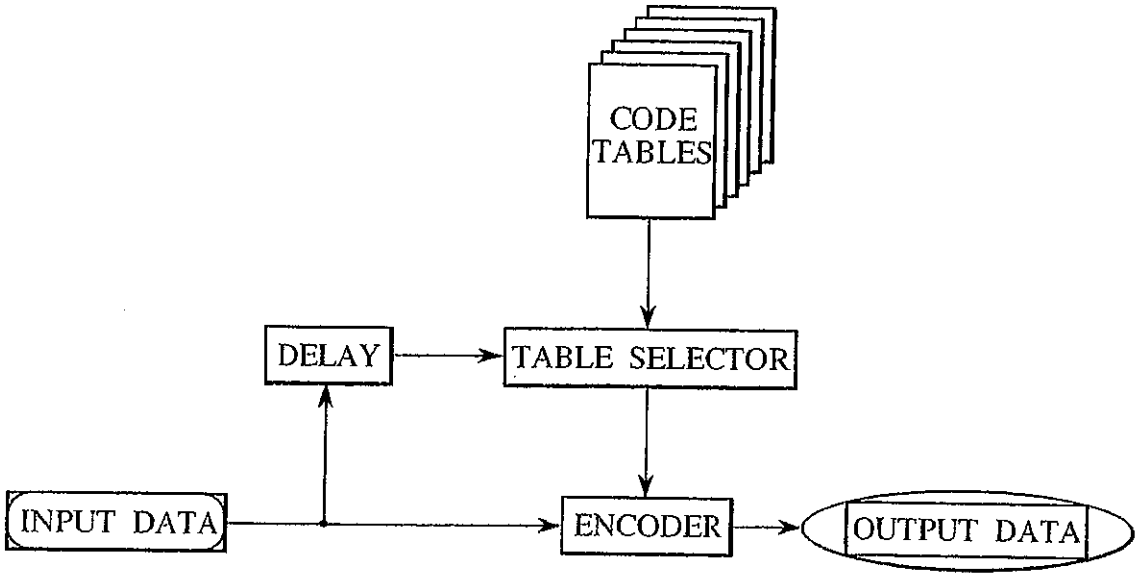


FIG. 4

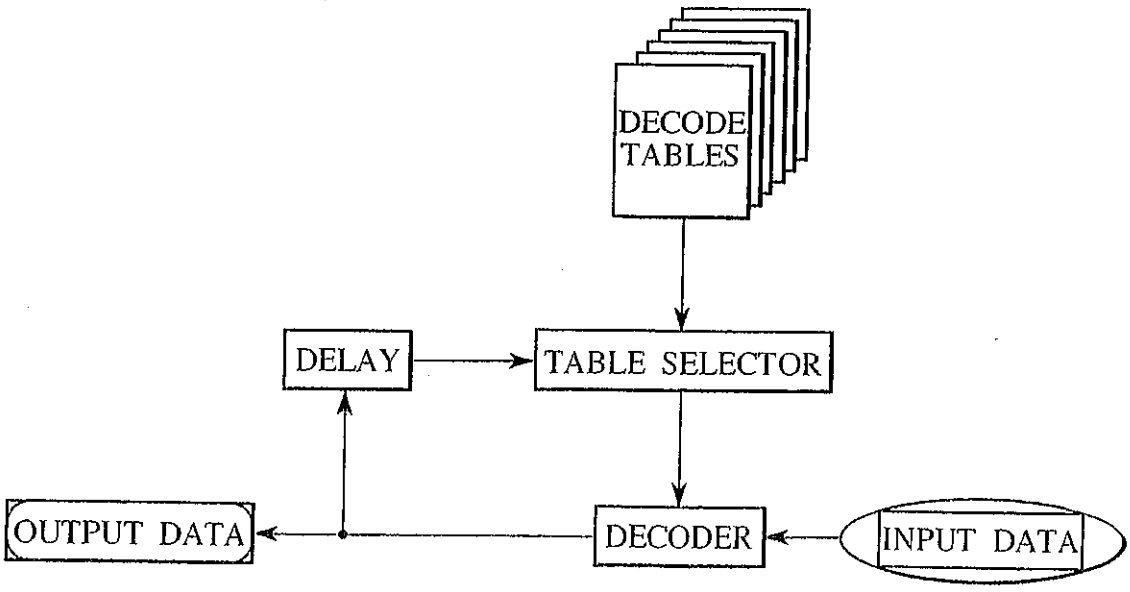


FIG. 5

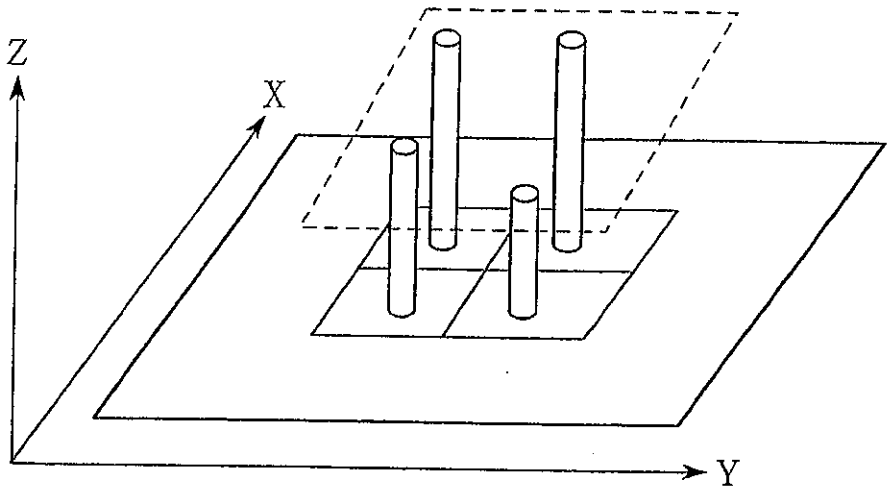

Z
X
Y

FIG. 6

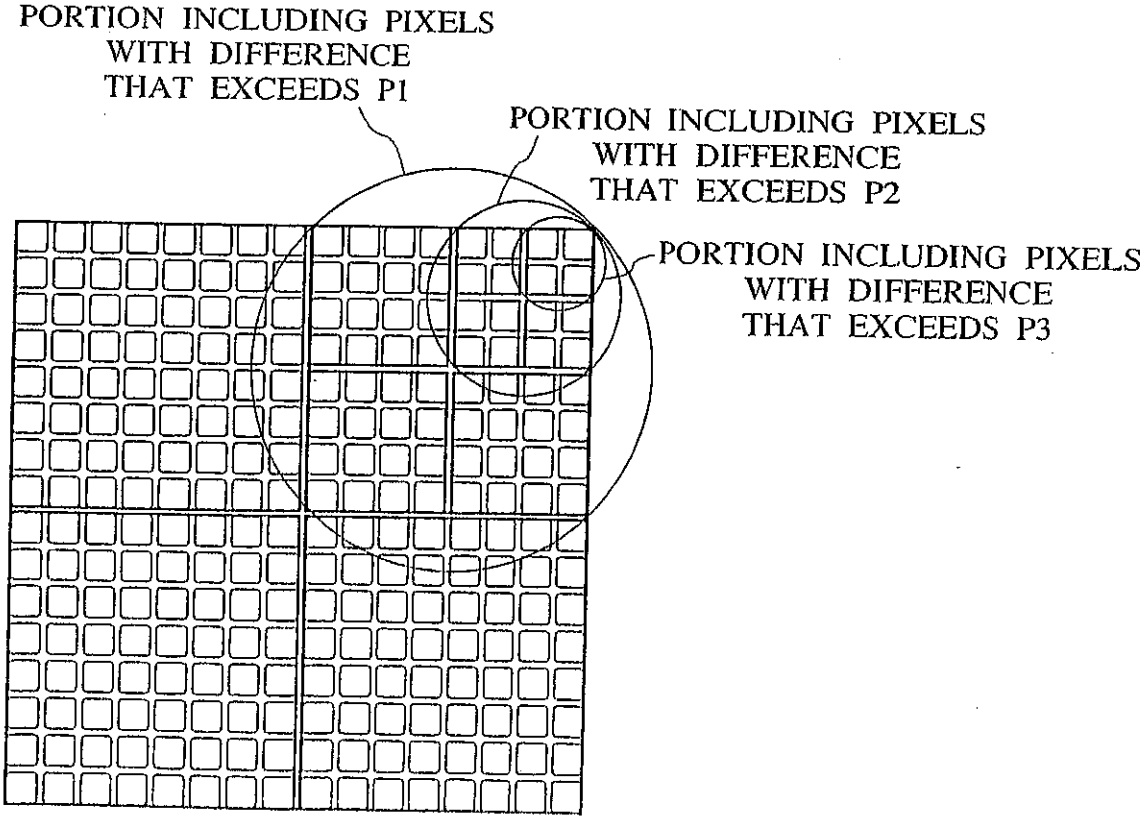

PORTION INCLUDING PIXELS WITH DIFFERENCE THAT EXCEEDS P1
PORTION INCLUDING PIXELS WITH DIFFERENCE THAT EXCEEDS P2
PORTION INCLUDING PIXELS WITH DIFFERENCE THAT EXCEEDS P3

FIG. 7A

FRAME t

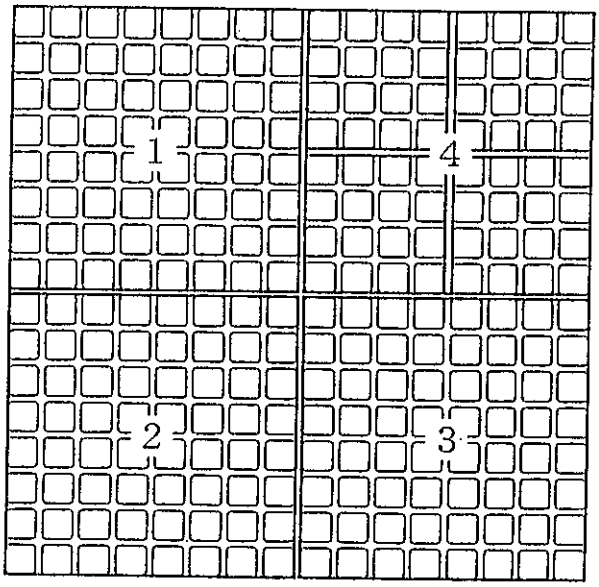


FIG. 7B

FRAME t+1

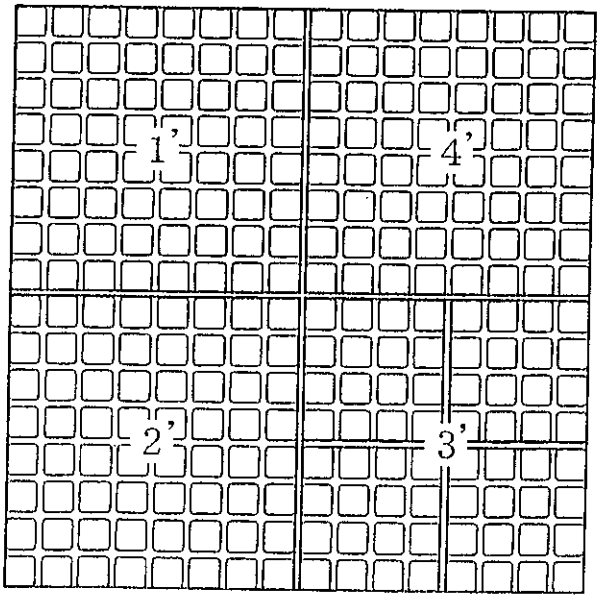


FIG. 8

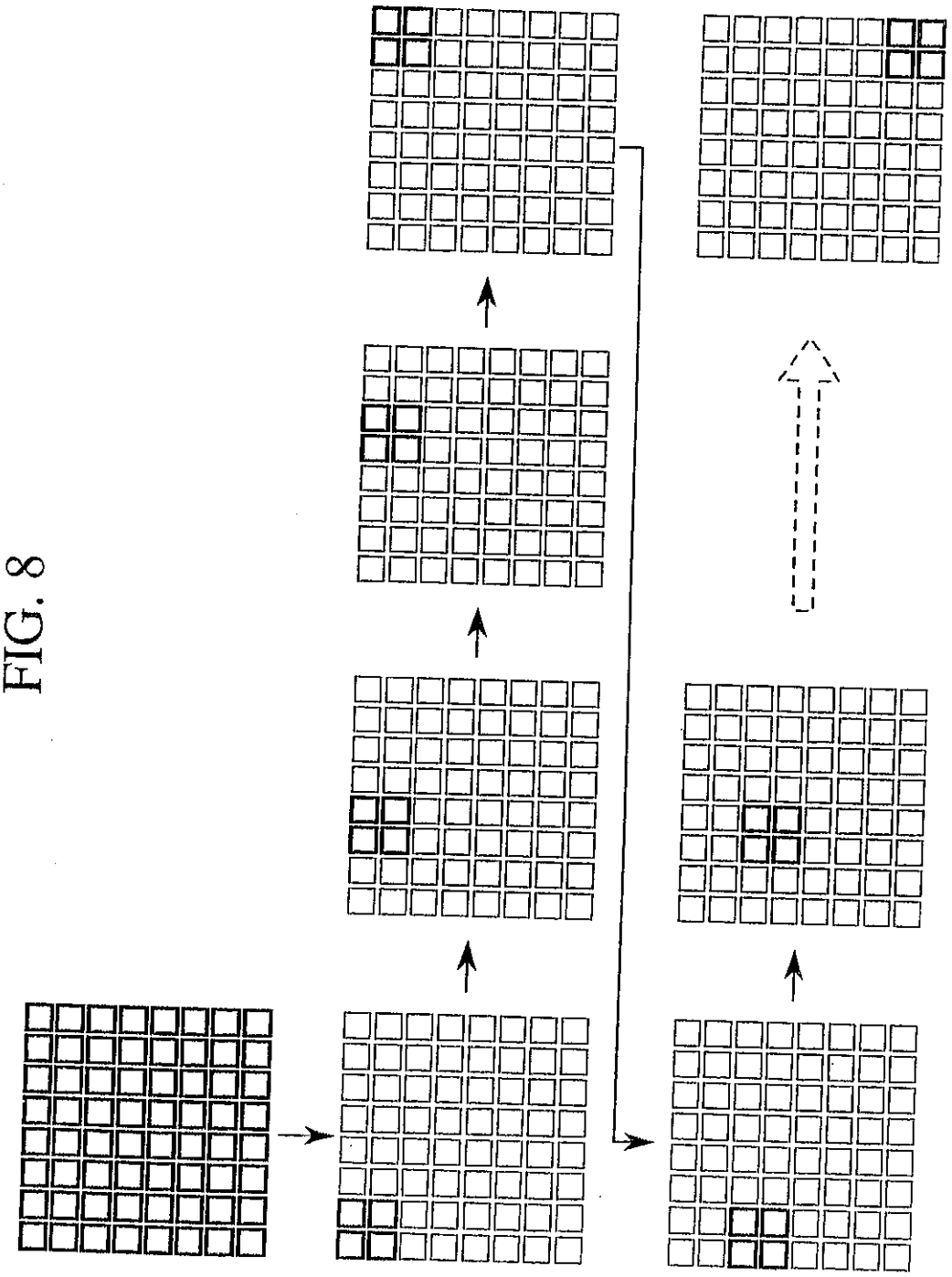


FIG. 9

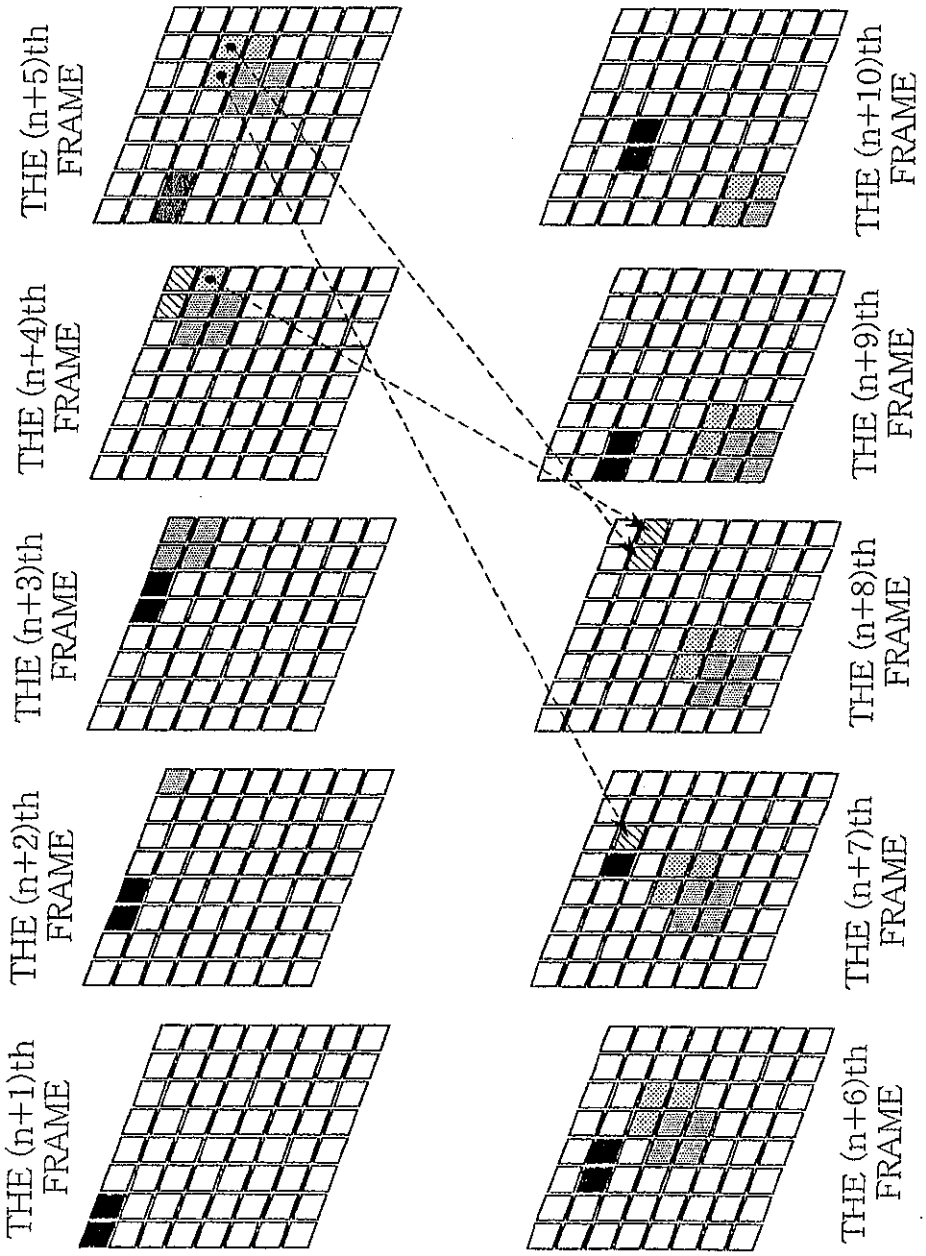

THE (n+1)th FRAME
THE (n+2)th FRAME
THE (n+3)th FRAME
THE (n+4)th FRAME
THE (n+5)th FRAME
THE (n+6)th FRAME
THE (n+7)th FRAME
THE (n+8)th FRAME
THE (n+9)th FRAME
THE (n+10)th FRAME

FIG. 10

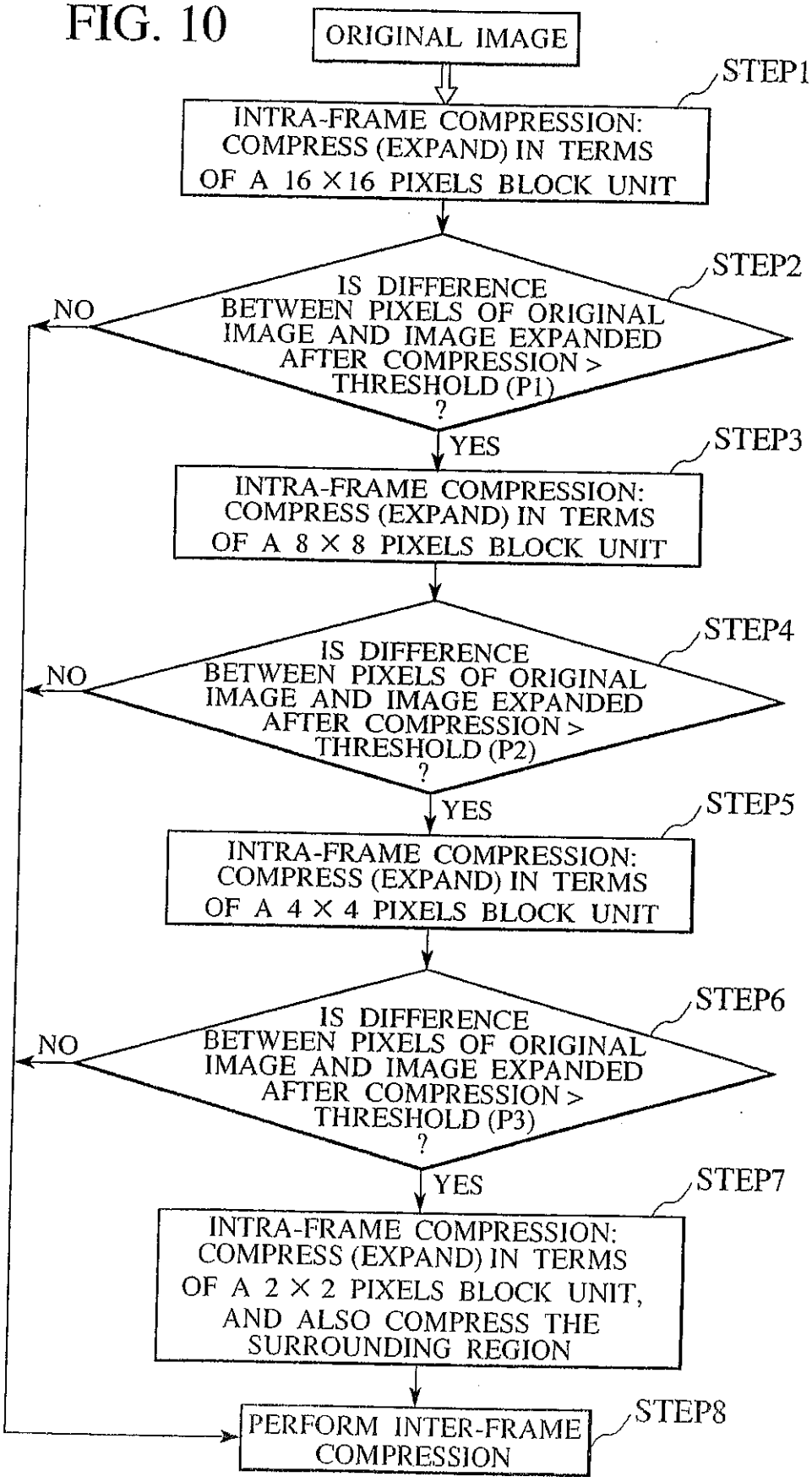

ORIGINAL IMAGE
STEP1
INTRA-FRAME COMPRESSION: COMPRESS (EXPAND) IN TERMS OF A 16 × 16 PIXELS BLOCK UNIT
STEP2
IS DIFFERENCE BETWEEN PIXELS OF ORIGINAL IMAGE AND IMAGE EXPANDED AFTER COMPRESSION > THRESHOLD (P1) ?
NO
YES
STEP3
INTRA-FRAME COMPRESSION: COMPRESS (EXPAND) IN TERMS OF A 8 × 8 PIXELS BLOCK UNIT
STEP4
IS DIFFERENCE BETWEEN PIXELS OF ORIGINAL IMAGE AND IMAGE EXPANDED AFTER COMPRESSION > THRESHOLD (P2) ?
NO
YES
STEP5
INTRA-FRAME COMPRESSION: COMPRESS (EXPAND) IN TERMS OF A 4 × 4 PIXELS BLOCK UNIT
STEP6
IS DIFFERENCE BETWEEN PIXELS OF ORIGINAL IMAGE AND IMAGE EXPANDED AFTER COMPRESSION > THRESHOLD (P3) ?
NO
YES
STEP7
INTRA-FRAME COMPRESSION: COMPRESS (EXPAND) IN TERMS OF A 2 × 2 PIXELS BLOCK UNIT, AND ALSO COMPRESS THE SURROUNDING REGION
PERFORM INTER-FRAME COMPRESSION
STEP8

FIG. 11

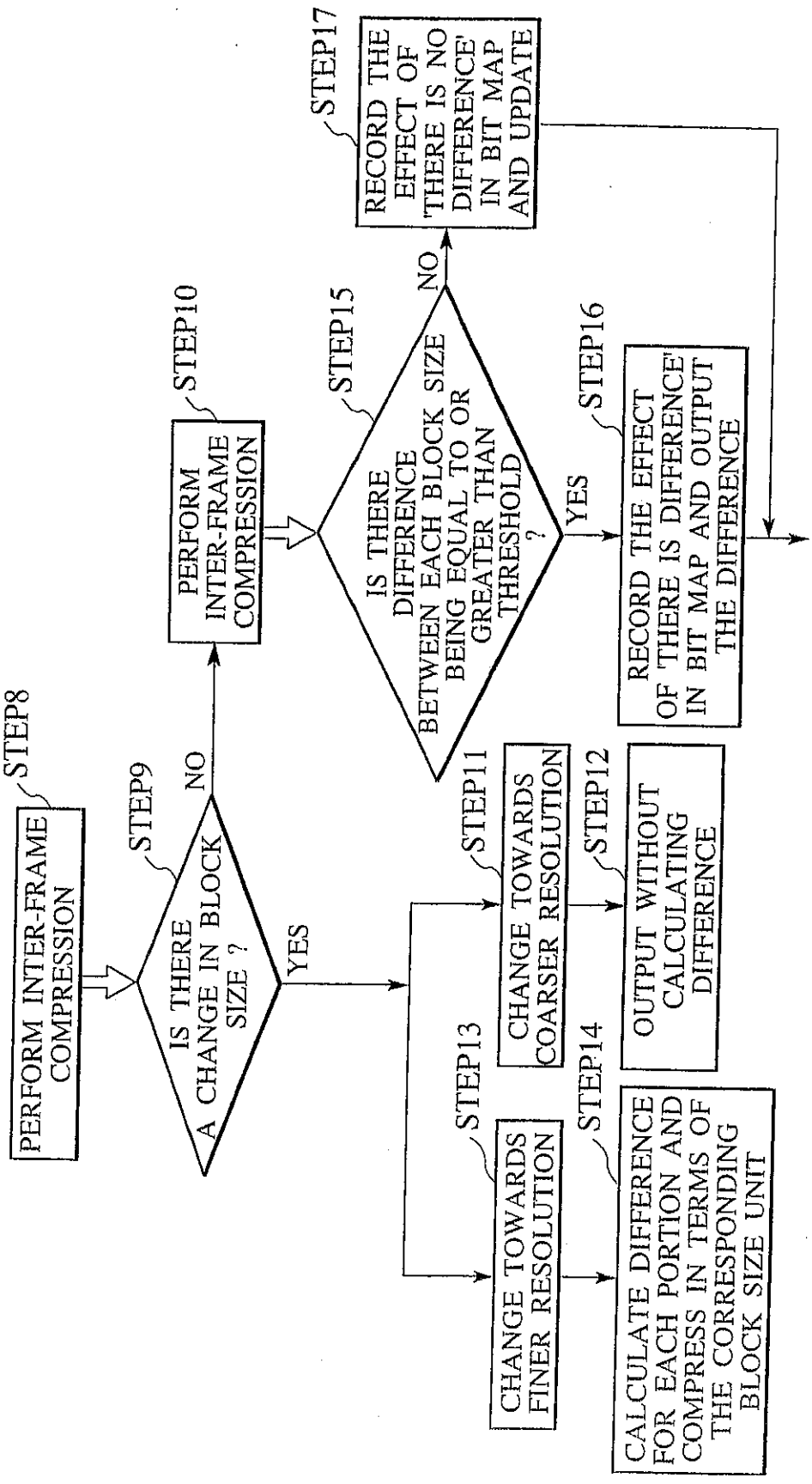
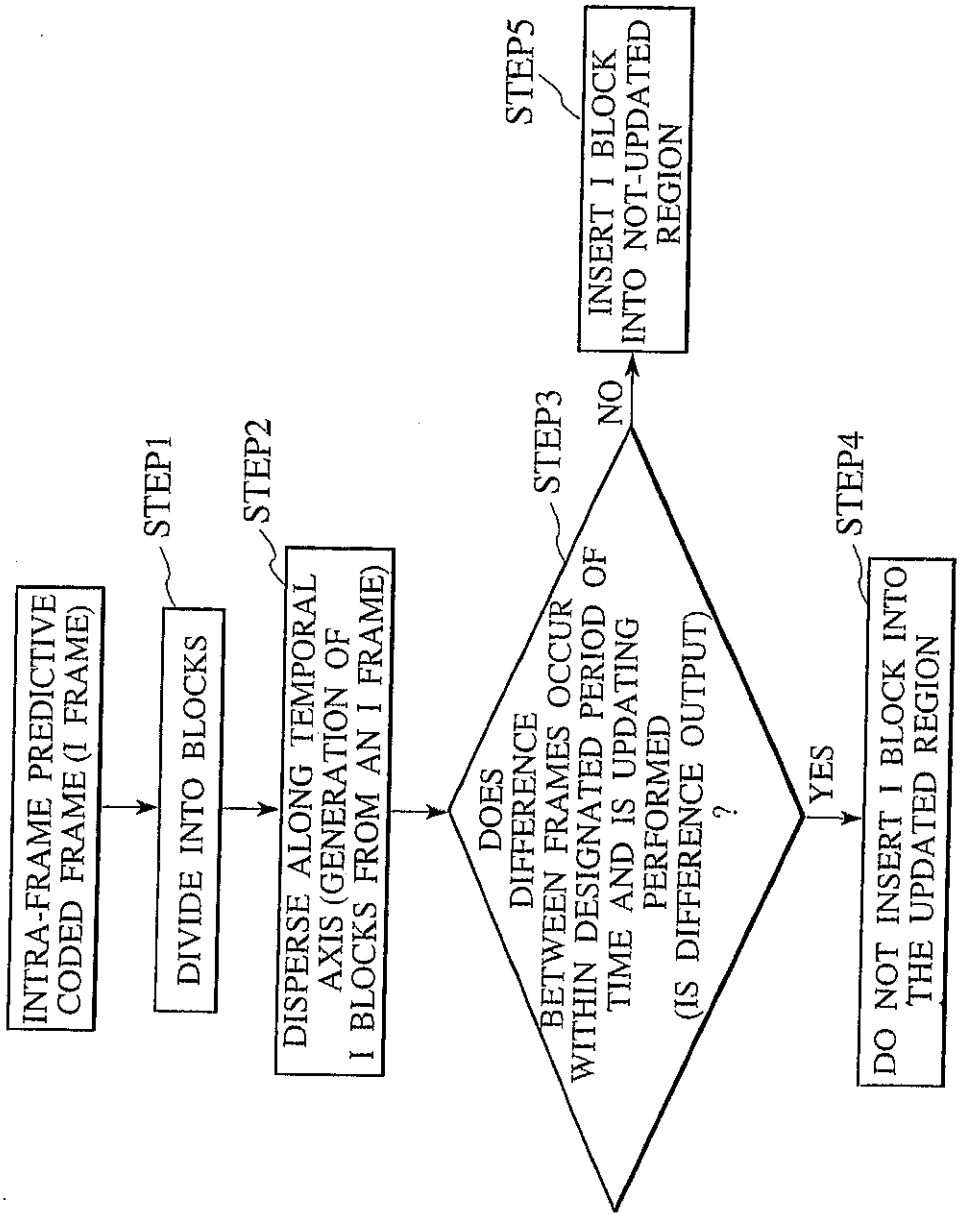

STEP8
PERFORM INTER-FRAME COMPRESSION
STEP9
IS THERE A CHANGE IN BLOCK SIZE ?
NO
YES
STEP10
PERFORM INTER-FRAME COMPRESSION
STEP11
CHANGE TOWARDS COARSER RESOLUTION
STEP12
OUTPUT WITHOUT CALCULATING DIFFERENCE
STEP13
CHANGE TOWARDS FINER RESOLUTION
STEP14
CALCULATE DIFFERENCE FOR EACH PORTION AND COMPRESS IN TERMS OF THE CORRESPONDING BLOCK SIZE UNIT
STEP15
IS THERE DIFFERENCE BETWEEN EACH BLOCK SIZE BEING EQUAL TO OR GREATER THAN THRESHOLD ?
NO
YES
STEP16
RECORD THE EFFECT OF 'THERE IS DIFFERENCE' IN BIT MAP AND OUTPUT THE DIFFERENCE
STEP17
RECORD THE EFFECT OF 'THERE IS NO DIFFERENCE' IN BIT MAP AND UPDATE

FIG. 12


INTRA-FRAME PREDICTIVE CODED FRAME (I FRAME)
STEP1
DIVIDE INTO BLOCKS
STEP2
DISPERSE ALONG TEMPORAL AXIS (GENERATION OF I BLOCKS FROM AN I FRAME)
STEP3
DOES DIFFERENCE BETWEEN FRAMES OCCUR WITHIN DESIGNATED PERIOD OF TIME AND IS UPDATING PERFORMED (IS DIFFERENCE OUTPUT) ?
NO
STEP5
INSERT I BLOCK INTO NOT-UPDATED REGION
YES
STEP4
DO NOT INSERT I BLOCK INTO THE UPDATED REGION