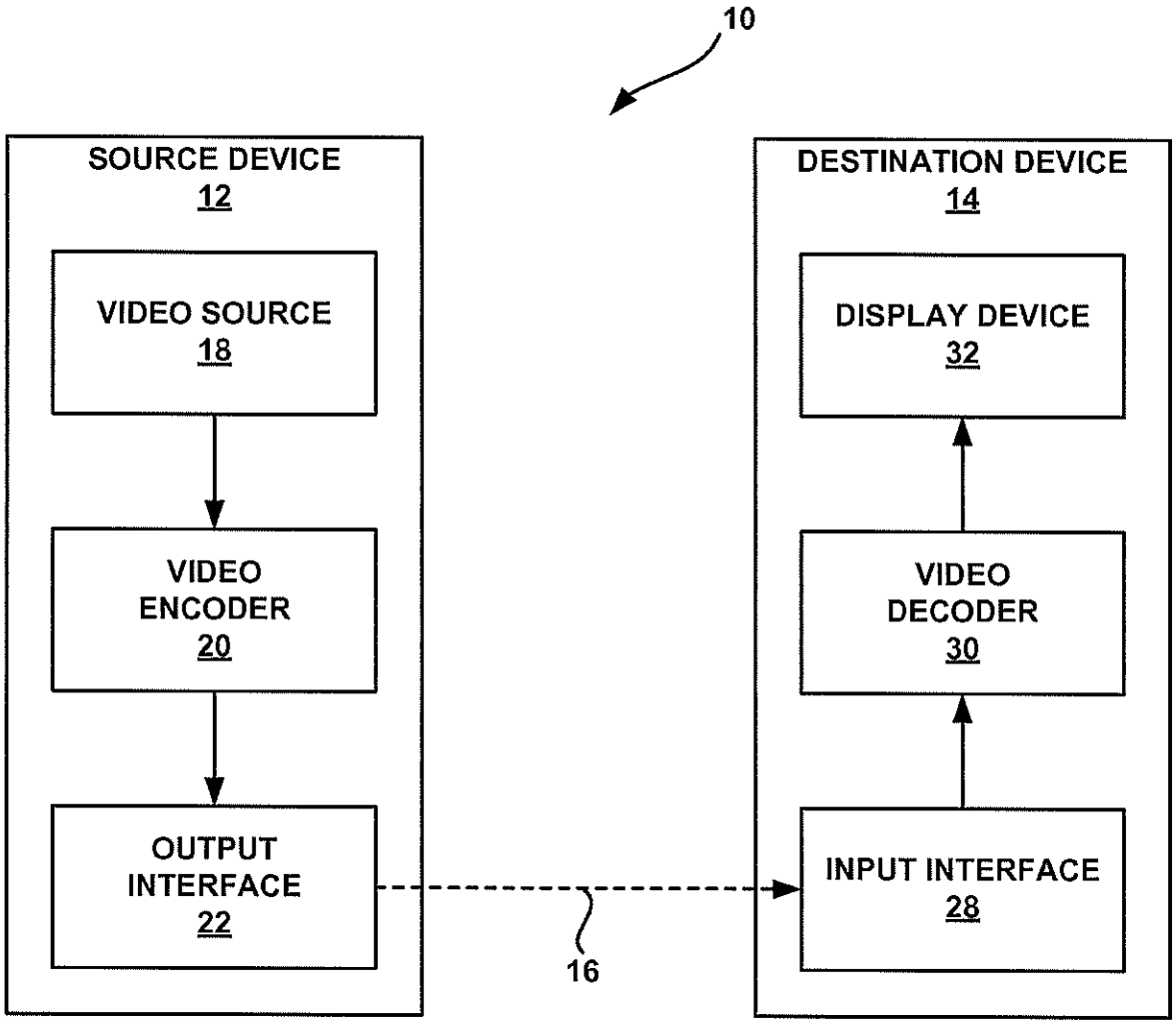

10
SOURCE DEVICE
12
VIDEO SOURCE
18
VIDEO
ENCODER
20
OUTPUT
INTERFACE
22
16
DESTINATION DEVICE
14
DISPLAY DEVICE
32
VIDEO
DECODER
30
INPUT INTERFACE
28

FIG. 1

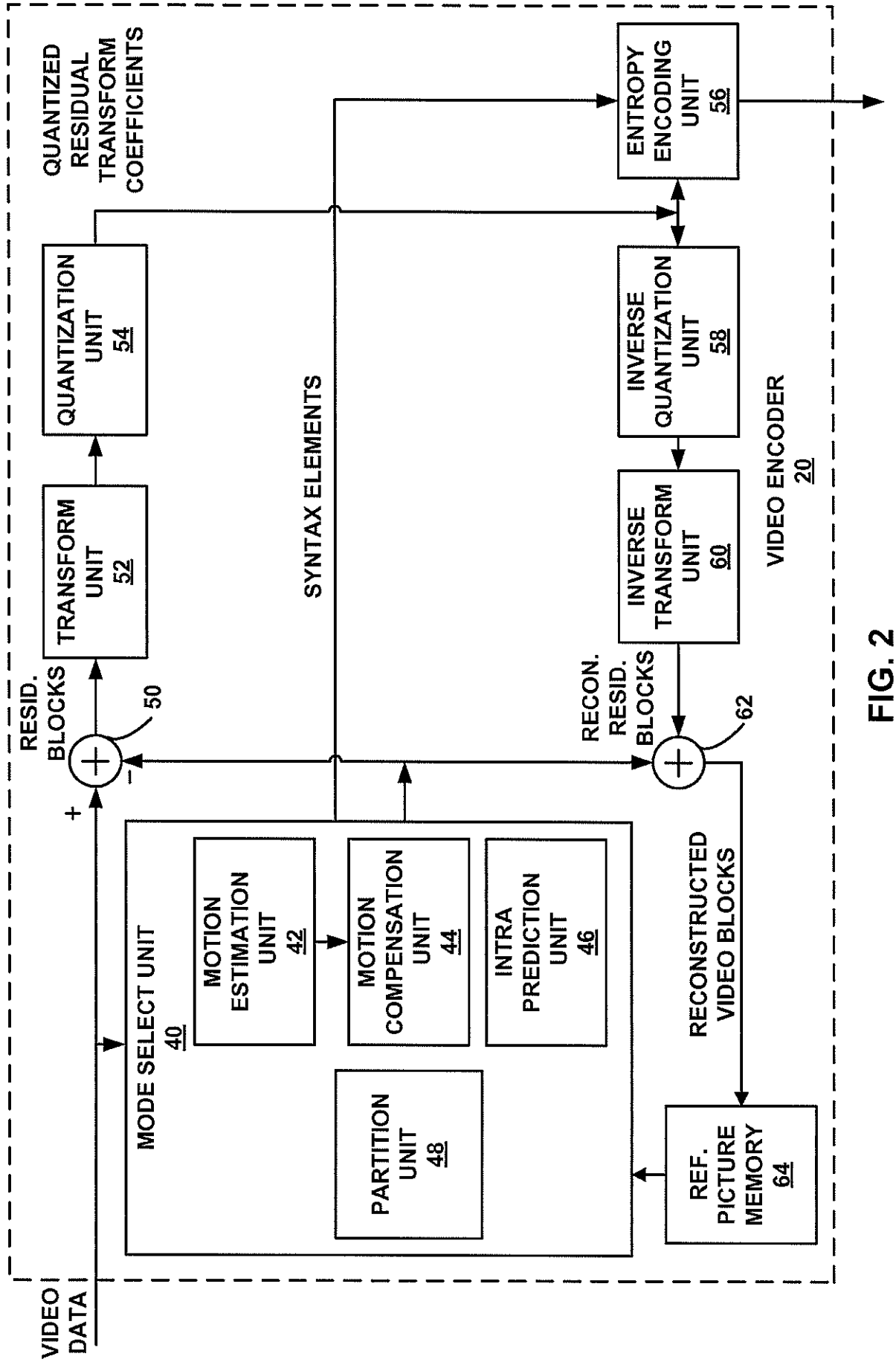

VIDEO DATA
VIDEO ENCODER 20
MODE SELECT UNIT 40
MOTION ESTIMATION UNIT 42
MOTION COMPENSATION UNIT 44
INTRA PREDICTION UNIT 46
PARTITION UNIT 48
RESID. BLOCKS
50
TRANSFORM UNIT 52
QUANTIZATION UNIT 54
QUANTIZED RESIDUAL TRANSFORM COEFFICIENTS
ENTROPY ENCODING UNIT 56
SYNTAX ELEMENTS
INVERSE QUANTIZATION UNIT 58
INVERSE TRANSFORM UNIT 60
RECON. RESID. BLOCKS
62
RECONSTRUCTED VIDEO BLOCKS
REF. PICTURE MEMORY 64

FIG. 2

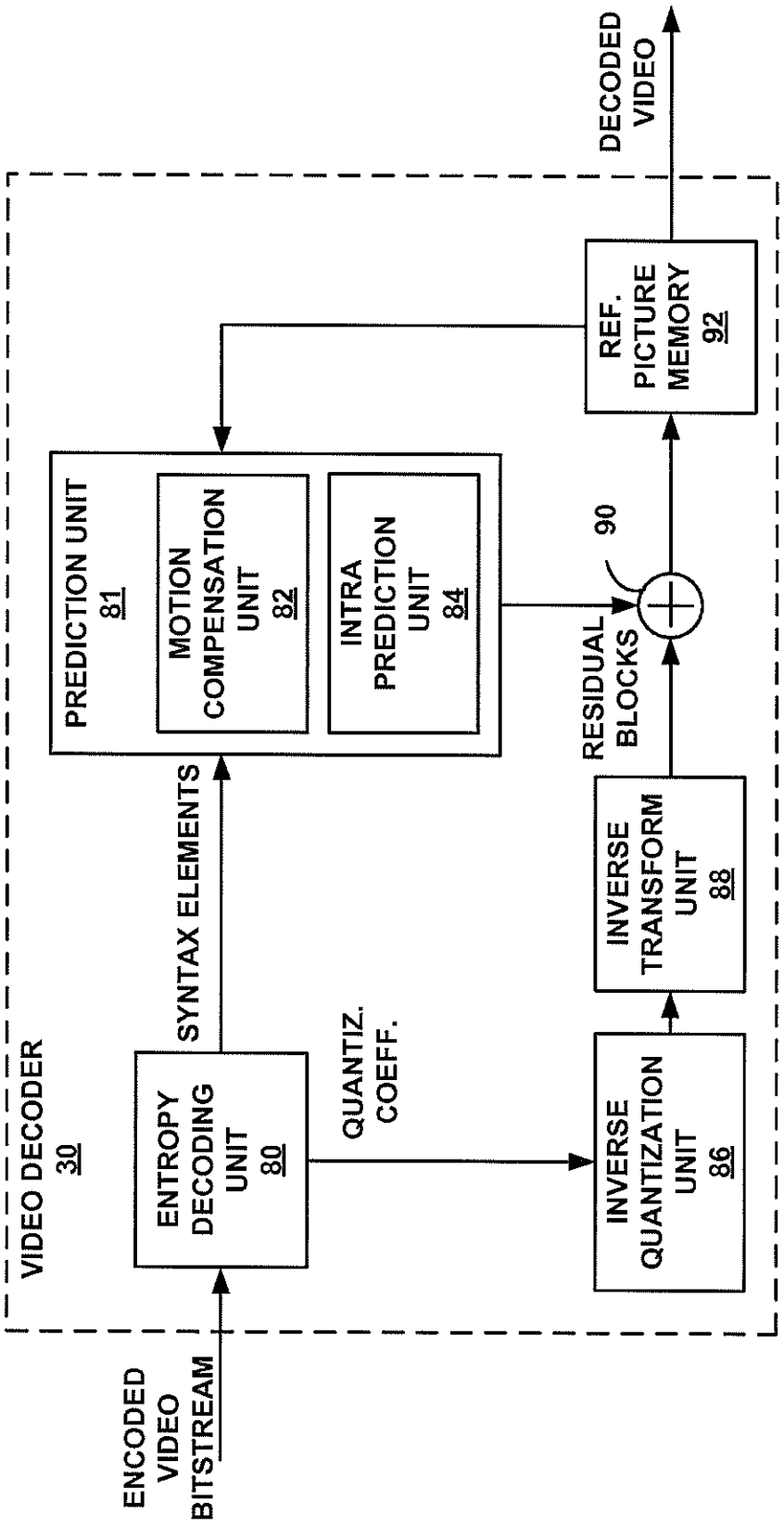

DECODED VIDEO
REF. PICTURE MEMORY 92
PREDICTION UNIT 81
MOTION COMPENSATION UNIT 82
INTRA PREDICTION UNIT 84
90
RESIDUAL BLOCKS
INVERSE TRANSFORM UNIT 88
INVERSE QUANTIZATION UNIT 86
QUANTIZ. COEFF.
SYNTAX ELEMENTS
ENTROPY DECODING UNIT 80
VIDEO DECODER 30
ENCODED VIDEO BITSTREAM

FIG. 3

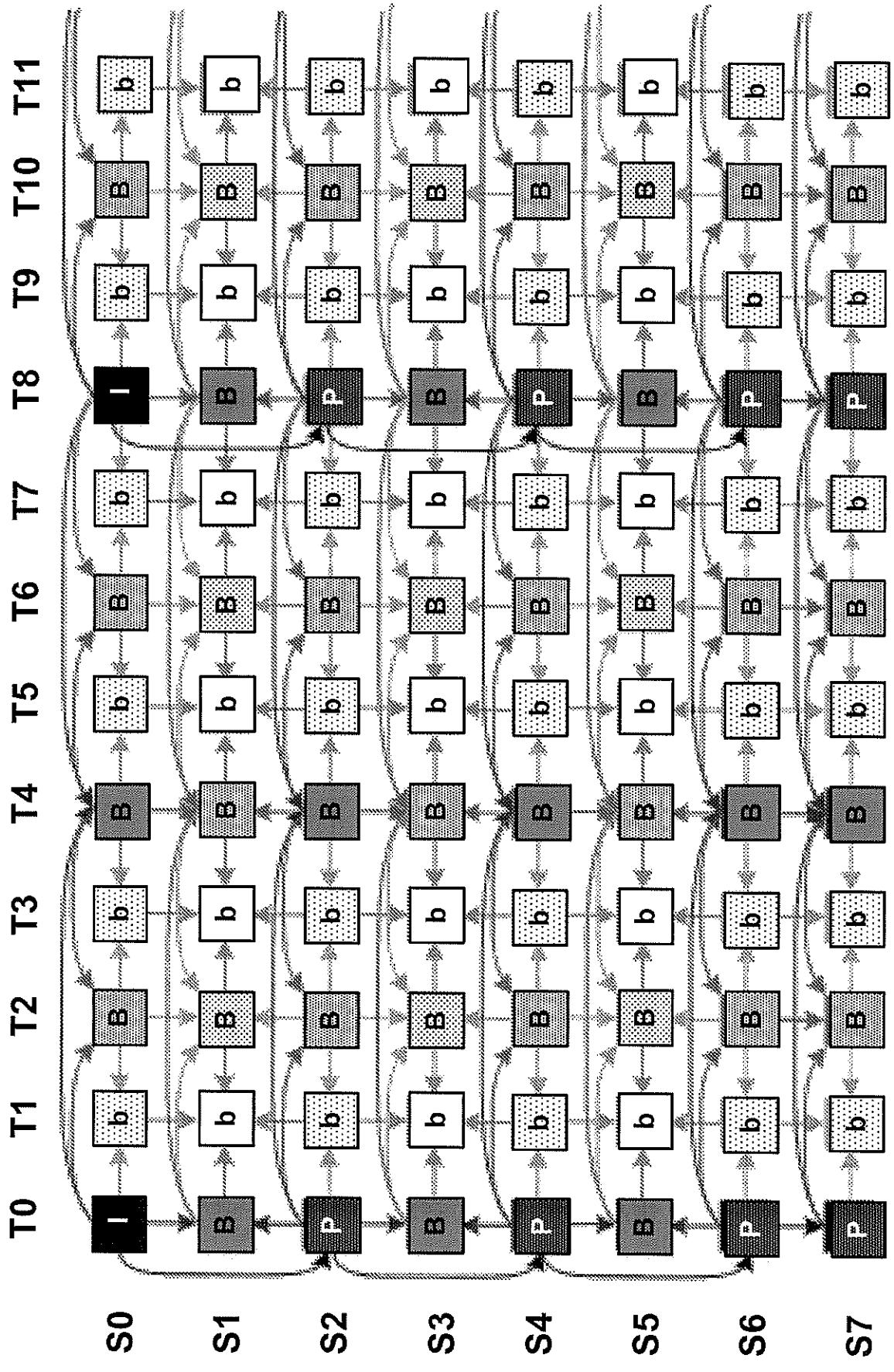


FIG. 4

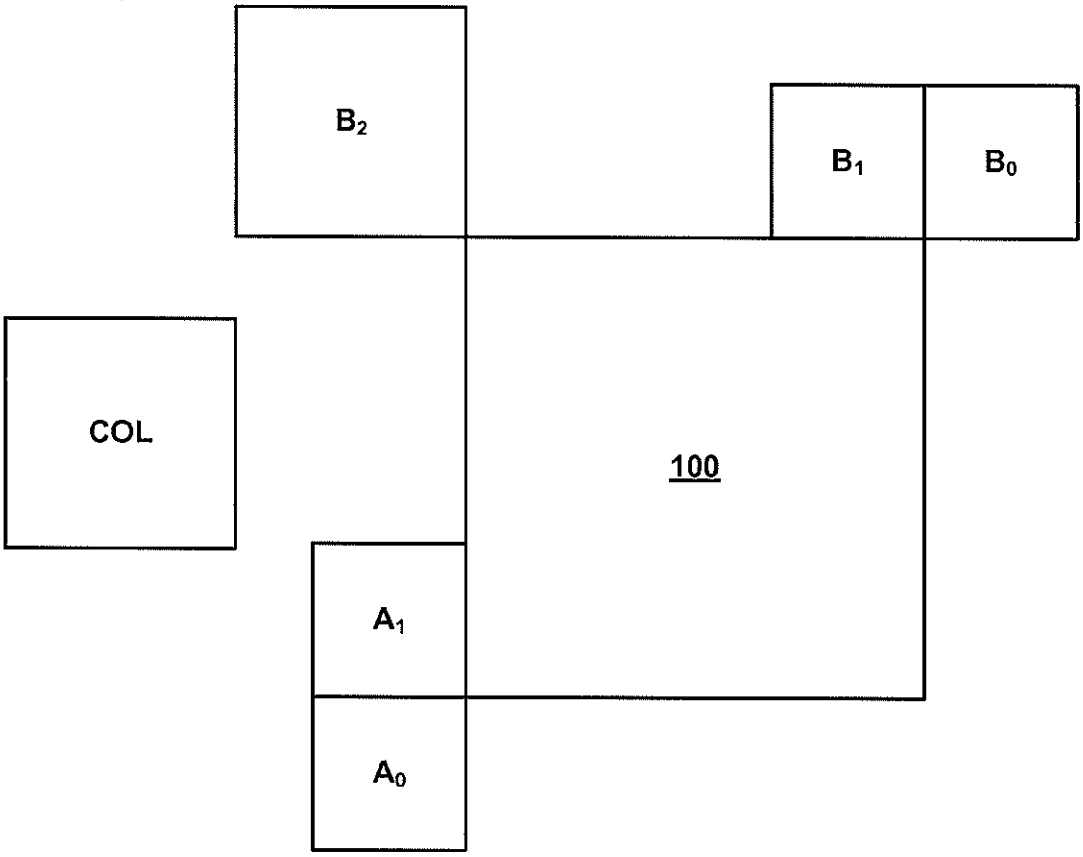


FIG. 5

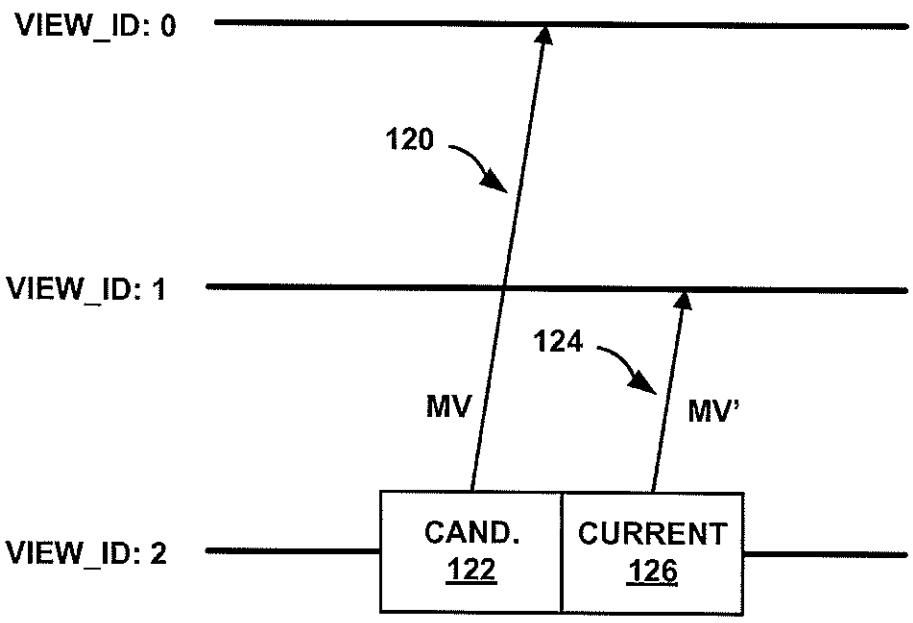


FIG. 6

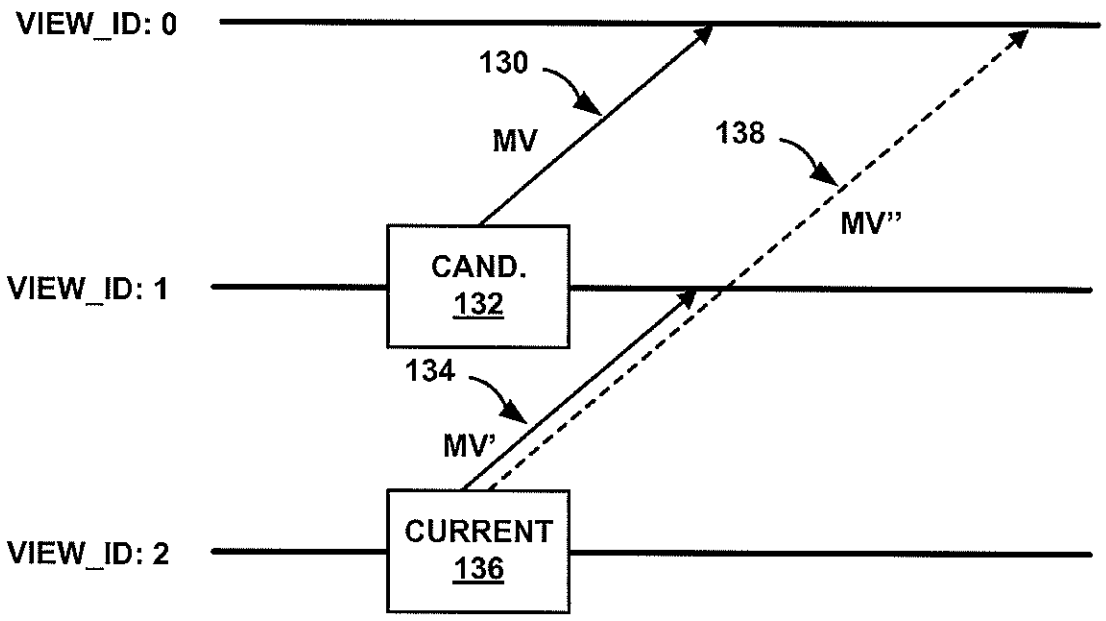

VIEW_ID: 0
130
MV
138
MV''
VIEW_ID: 1
CAND.
132
134
MV'
VIEW_ID: 2
CURRENT
136

FIG. 7

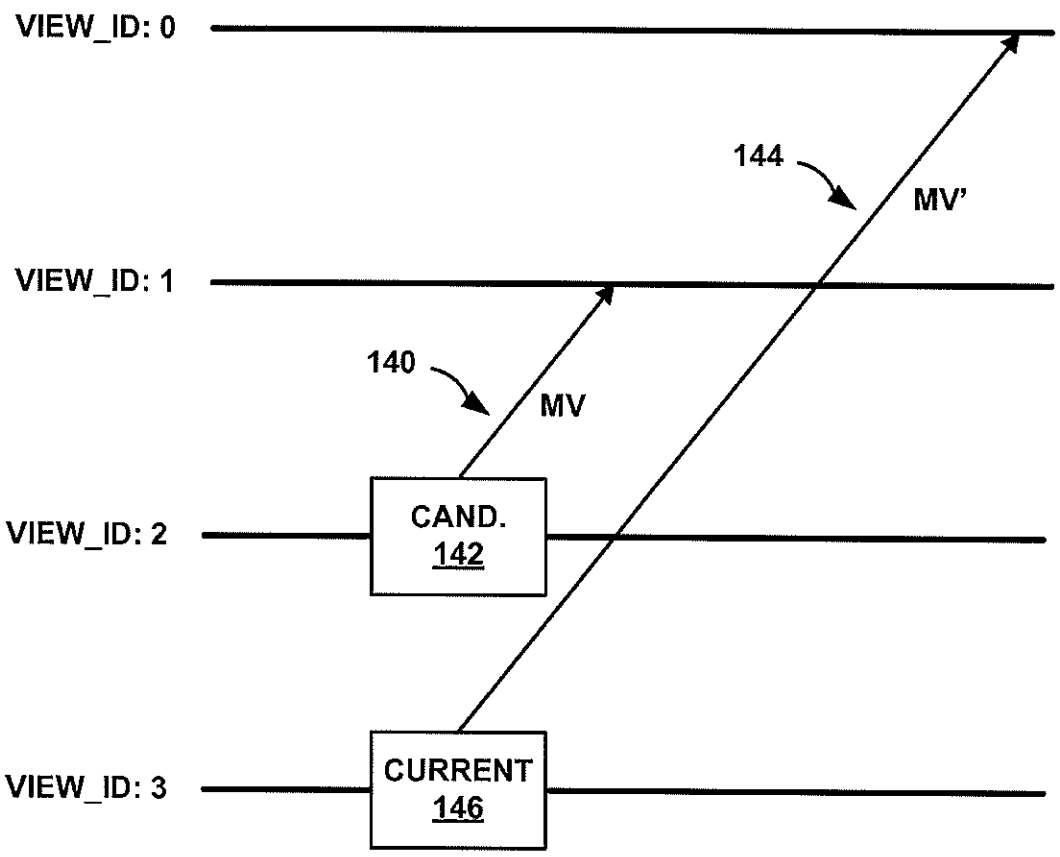

VIEW_ID: 0
144
MV'
VIEW_ID: 1
140
MV
VIEW_ID: 2
CAND.
142
VIEW_ID: 3
CURRENT
146

FIG. 8

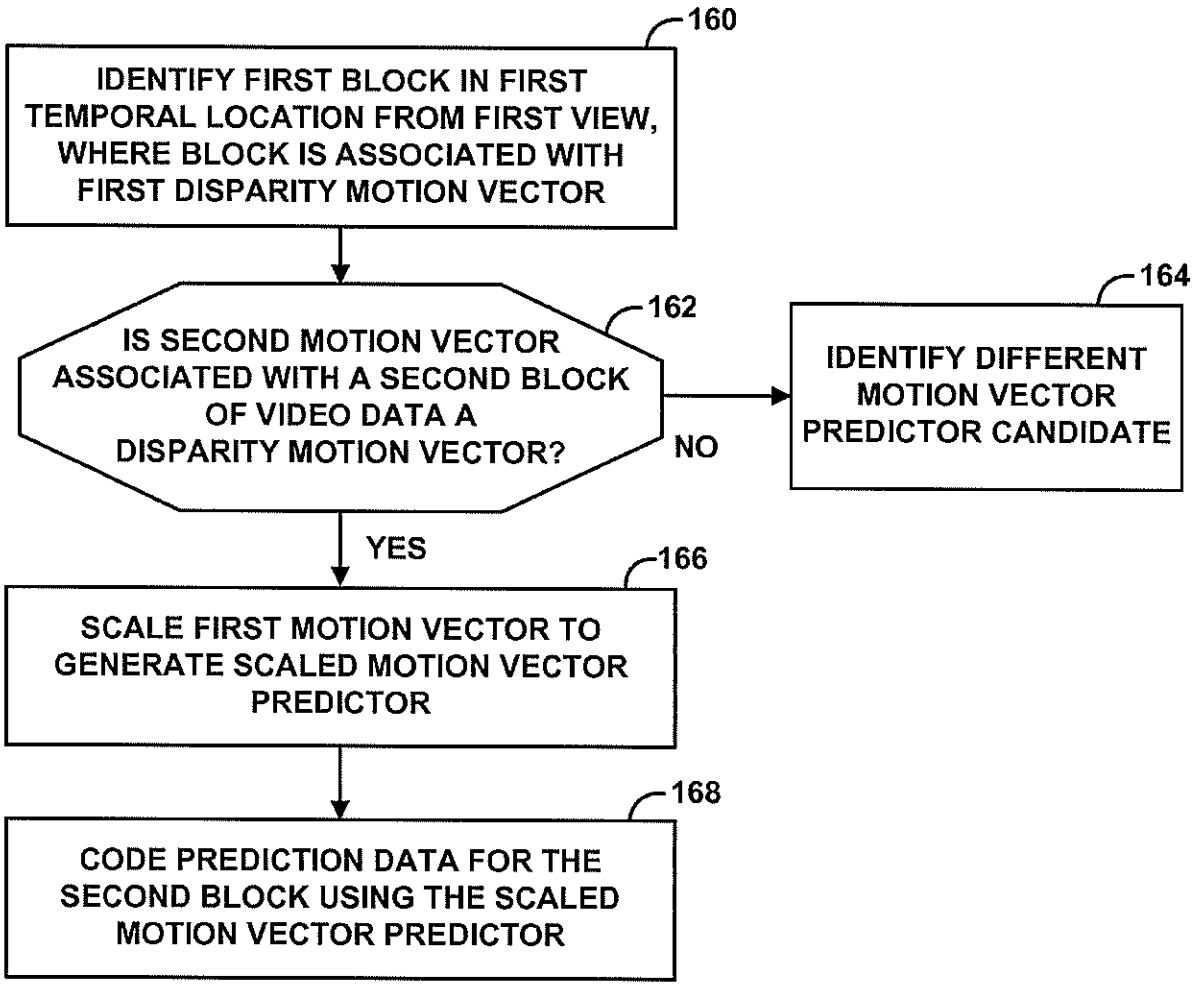

160
IDENTIFY FIRST BLOCK IN FIRST TEMPORAL LOCATION FROM FIRST VIEW, WHERE BLOCK IS ASSOCIATED WITH FIRST DISPARITY MOTION VECTOR
162
IS SECOND MOTION VECTOR ASSOCIATED WITH A SECOND BLOCK OF VIDEO DATA A DISPARITY MOTION VECTOR?
NO
164
IDENTIFY DIFFERENT MOTION VECTOR PREDICTOR CANDIDATE
YES
166
SCALE FIRST MOTION VECTOR TO GENERATE SCALED MOTION VECTOR PREDICTOR
168
CODE PREDICTION DATA FOR THE SECOND BLOCK USING THE SCALED MOTION VECTOR PREDICTOR

FIG. 9

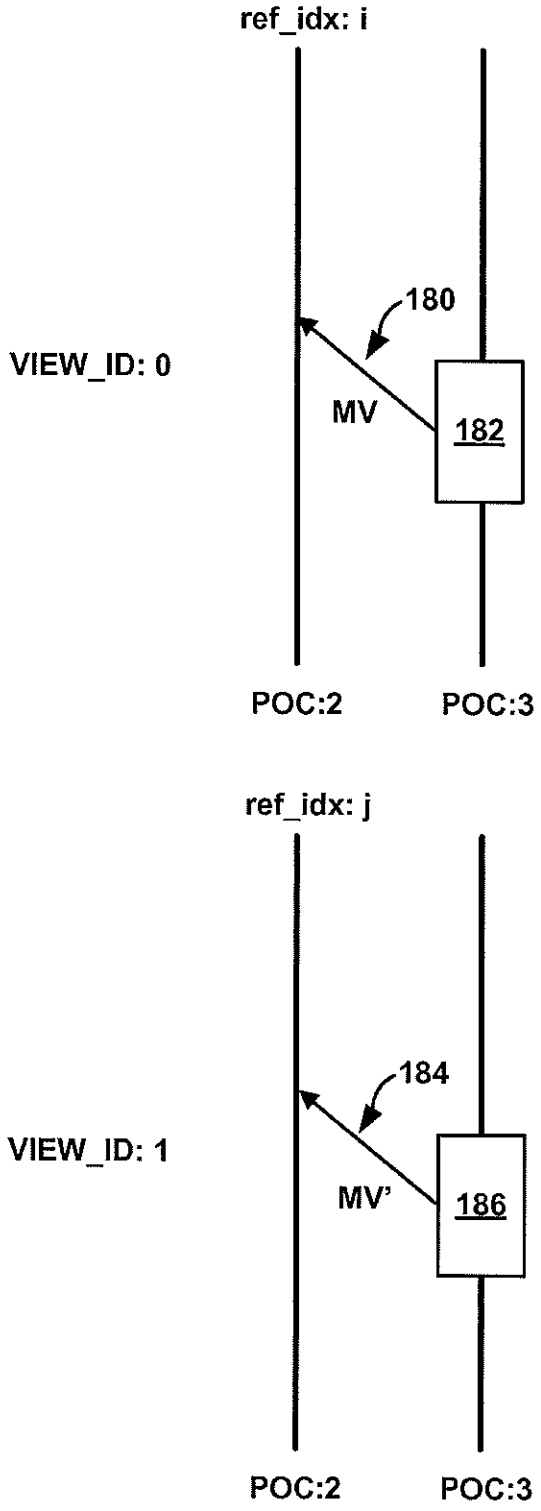

ref_idx: i
180
VIEW_ID: 0
MV
182
POC:2
POC:3
ref_idx: j
184
VIEW_ID: 1
MV'
186
POC:2
POC:3

FIG. 10

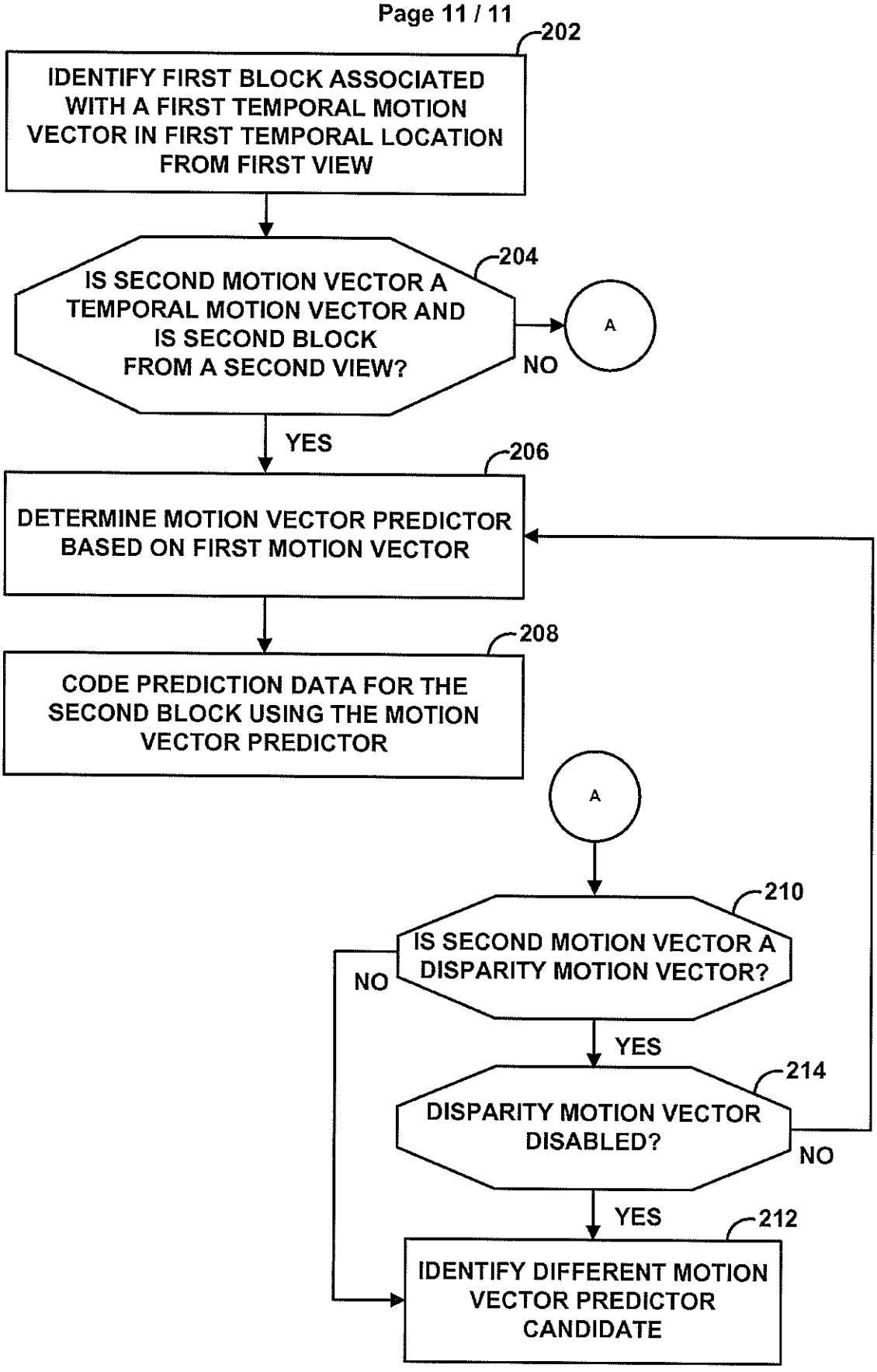

202
IDENTIFY FIRST BLOCK ASSOCIATED WITH A FIRST TEMPORAL MOTION VECTOR IN FIRST TEMPORAL LOCATION FROM FIRST VIEW
204
IS SECOND MOTION VECTOR A TEMPORAL MOTION VECTOR AND IS SECOND BLOCK FROM A SECOND VIEW?
NO
A
YES
206
DETERMINE MOTION VECTOR PREDICTOR BASED ON FIRST MOTION VECTOR
208
CODE PREDICTION DATA FOR THE SECOND BLOCK USING THE MOTION VECTOR PREDICTOR
A
210
IS SECOND MOTION VECTOR A DISPARITY MOTION VECTOR?
NO
YES
214
DISPARITY MOTION VECTOR DISABLED?
NO
YES
212
IDENTIFY DIFFERENT MOTION VECTOR PREDICTOR CANDIDATE

FIG. 11