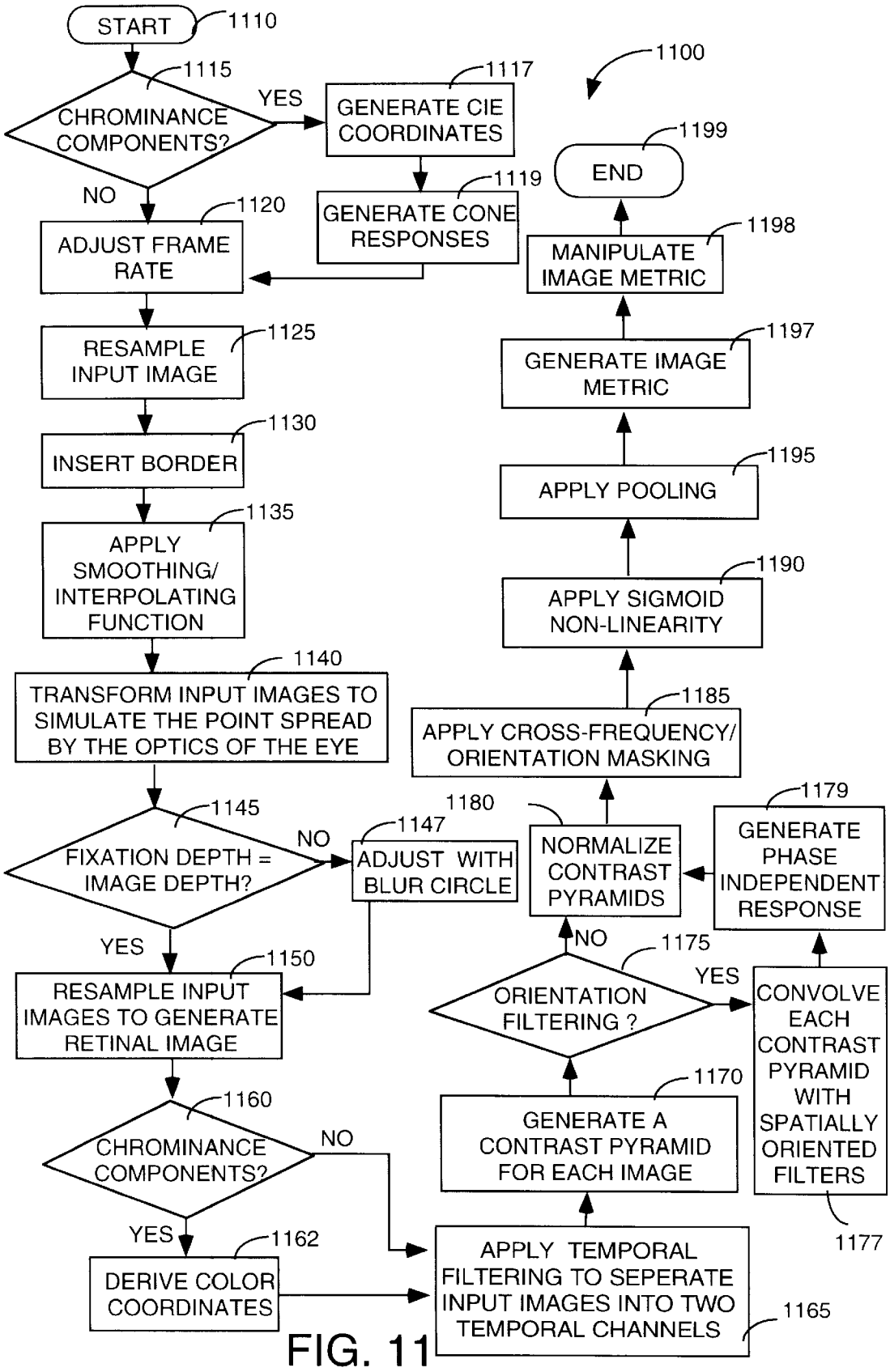
START
1110
1115
CHROMINANCE COMPONENTS?
YES
NO
1117
GENERATE CIE COORDINATES
1119
GENERATE CONE RESPONSES
1120
ADJUST FRAME RATE
1125
RESAMPLE INPUT IMAGE
1130
INSERT BORDER
1135
APPLY SMOOTHING/ INTERPOLATING FUNCTION
1140
TRANSFORM INPUT IMAGES TO SIMULATE THE POINT SPREAD BY THE OPTICS OF THE EYE
1145
FIXATION DEPTH = IMAGE DEPTH?
NO
YES
1147
ADJUST WITH BLUR CIRCLE
1150
RESAMPLE INPUT IMAGES TO GENERATE RETINAL IMAGE
1160
CHROMINANCE COMPONENTS?
NO
YES
1162
DERIVE COLOR COORDINATES
APPLY TEMPORAL FILTERING TO SEPERATE INPUT IMAGES INTO TWO TEMPORAL CHANNELS
1165
1100
1199
END
1198
MANIPULATE IMAGE METRIC
1197
GENERATE IMAGE METRIC
1195
APPLY POOLING
1190
APPLY SIGMOID NON-LINEARITY
1185
APPLY CROSS-FREQUENCY/ ORIENTATION MASKING
1180
NORMALIZE CONTRAST PYRAMIDS
1179
GENERATE PHASE INDEPENDENT RESPONSE
NO
1175
ORIENTATION FILTERING ?
YES
CONVOLVE EACH CONTRAST PYRAMID WITH SPATIALLY ORIENTED FILTERS
1177
1170
GENERATE A CONTRAST PYRAMID FOR EACH IMAGE

FIG. 11