	C1	C2	C3	C4	C5	C6
R1	**10 V**	**10 V**	**10 V**	2 V	0 V	0 V
R2	3 V	**10 V**	**10 V**	**9 V**	1 V	0 V
R3	1 V	3 V	**8 V**	**9 V**	**7 V**	1 V
R4	0 V	1 V	3 V	**7 V**	**8 V**	**7 V**
R5	0 V	0 V	1 V	3 V		
R6	0 V	0 V	0 V	1 V	3 V	

FIG. 8e

	C1	C2	C3	C4	C5	C6
R1						
R2						
R3						
R4						
R5					**12 H**	**12 H**
R6						**8 H**

FIG. 8f

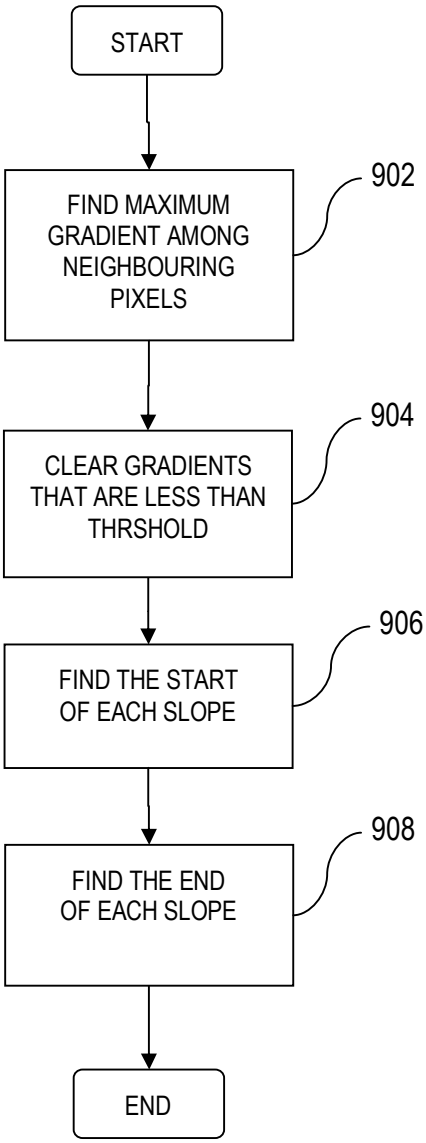

START
FIND MAXIMUM GRADIENT AMONG NEIGHBOURING PIXELS
902
CLEAR GRADIENTS THAT ARE LESS THAN THRSHOLD
904
FIND THE START OF EACH SLOPE
906
FIND THE END OF EACH SLOPE
908
END

FIG. 9

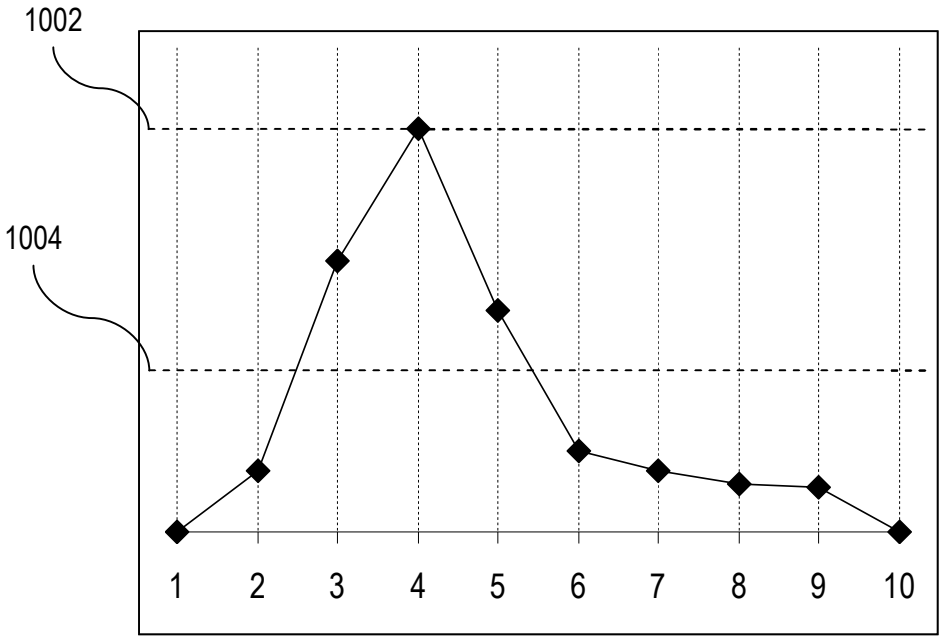


FIG. 10a

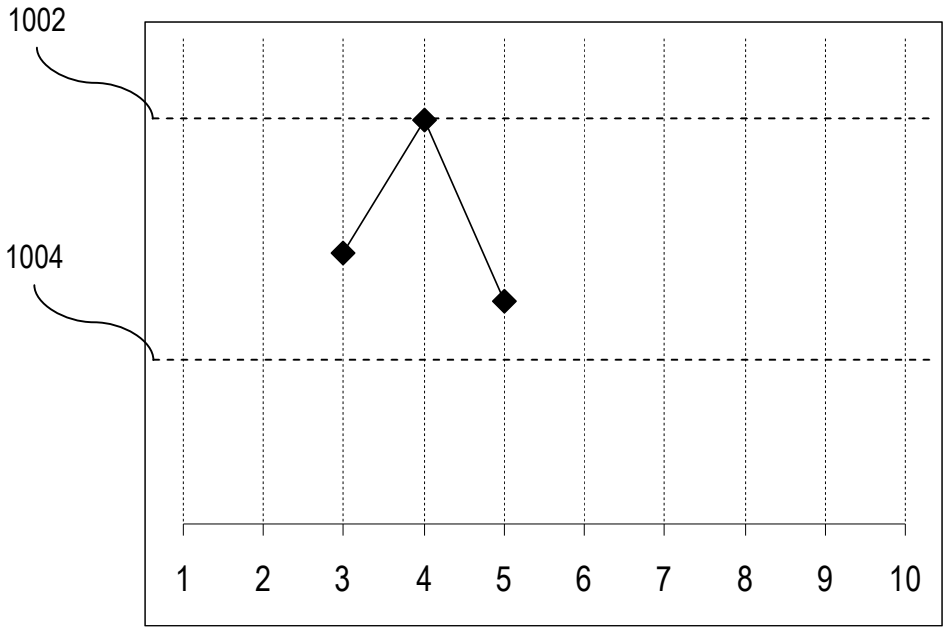


FIG. 10b

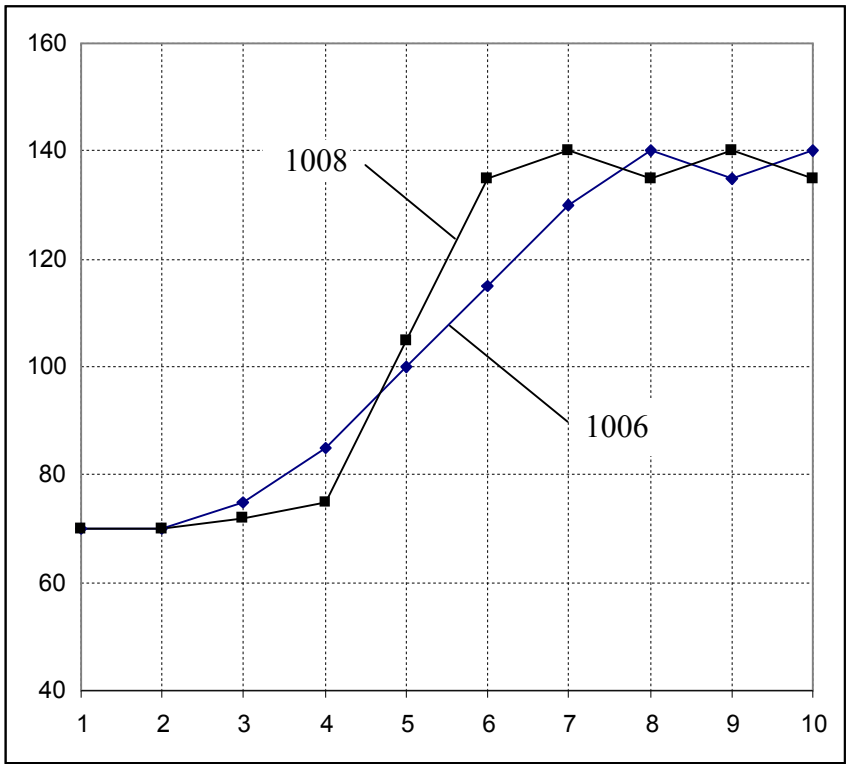


FIGURE 10c

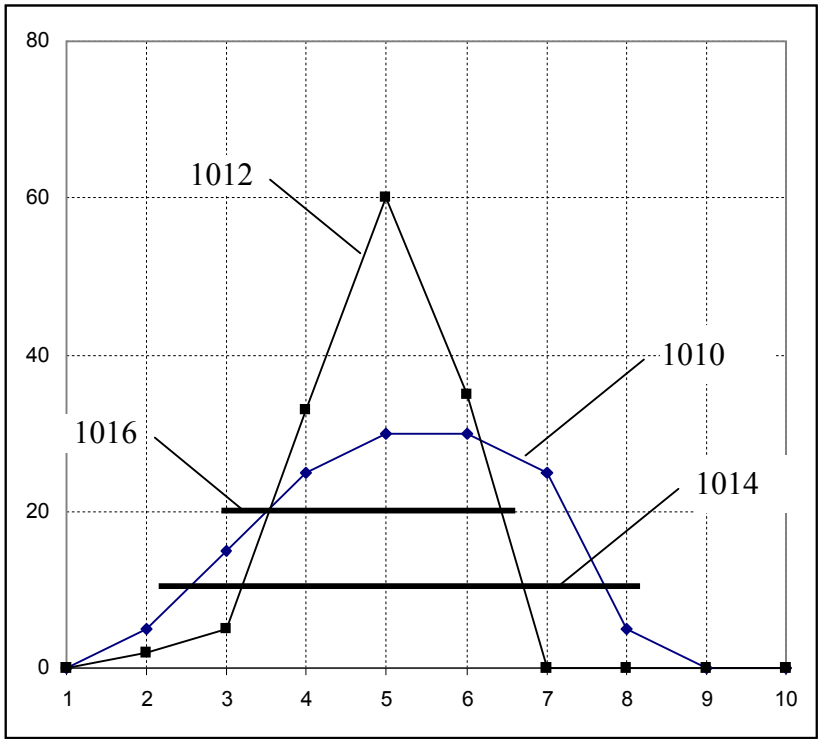


FIGURE 10d

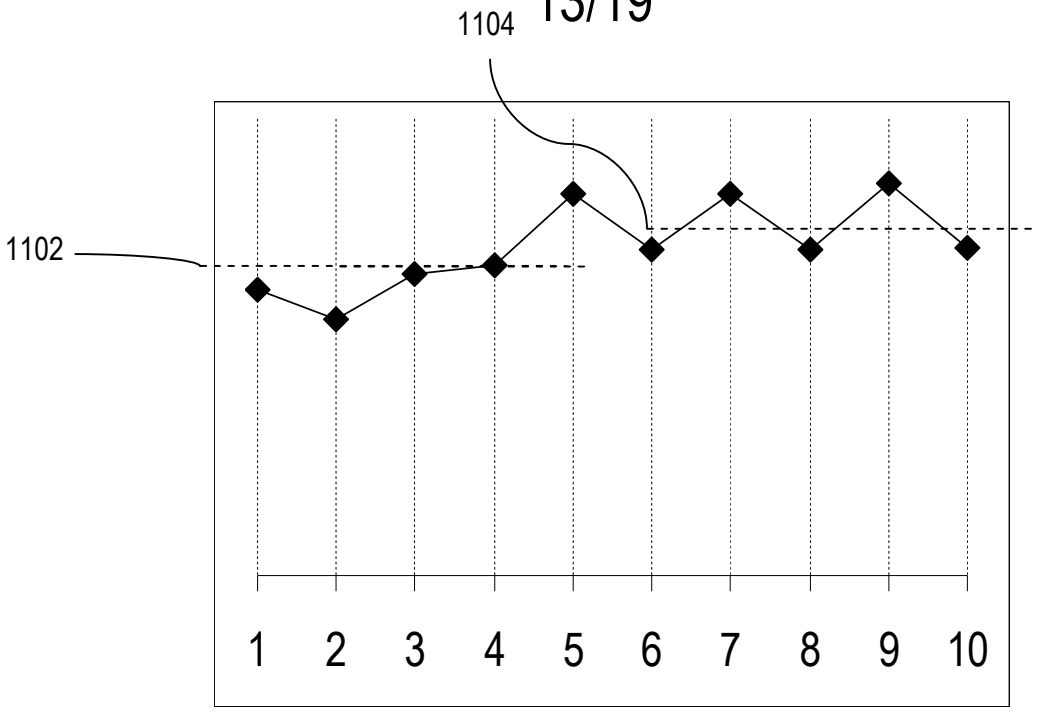


FIG. 11a

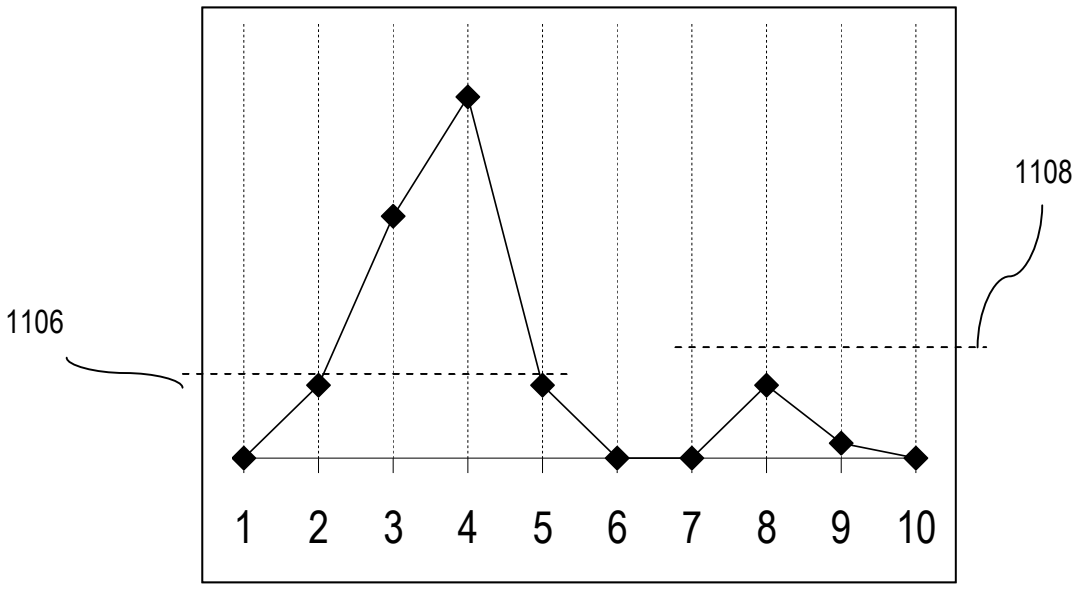


FIG. 11b

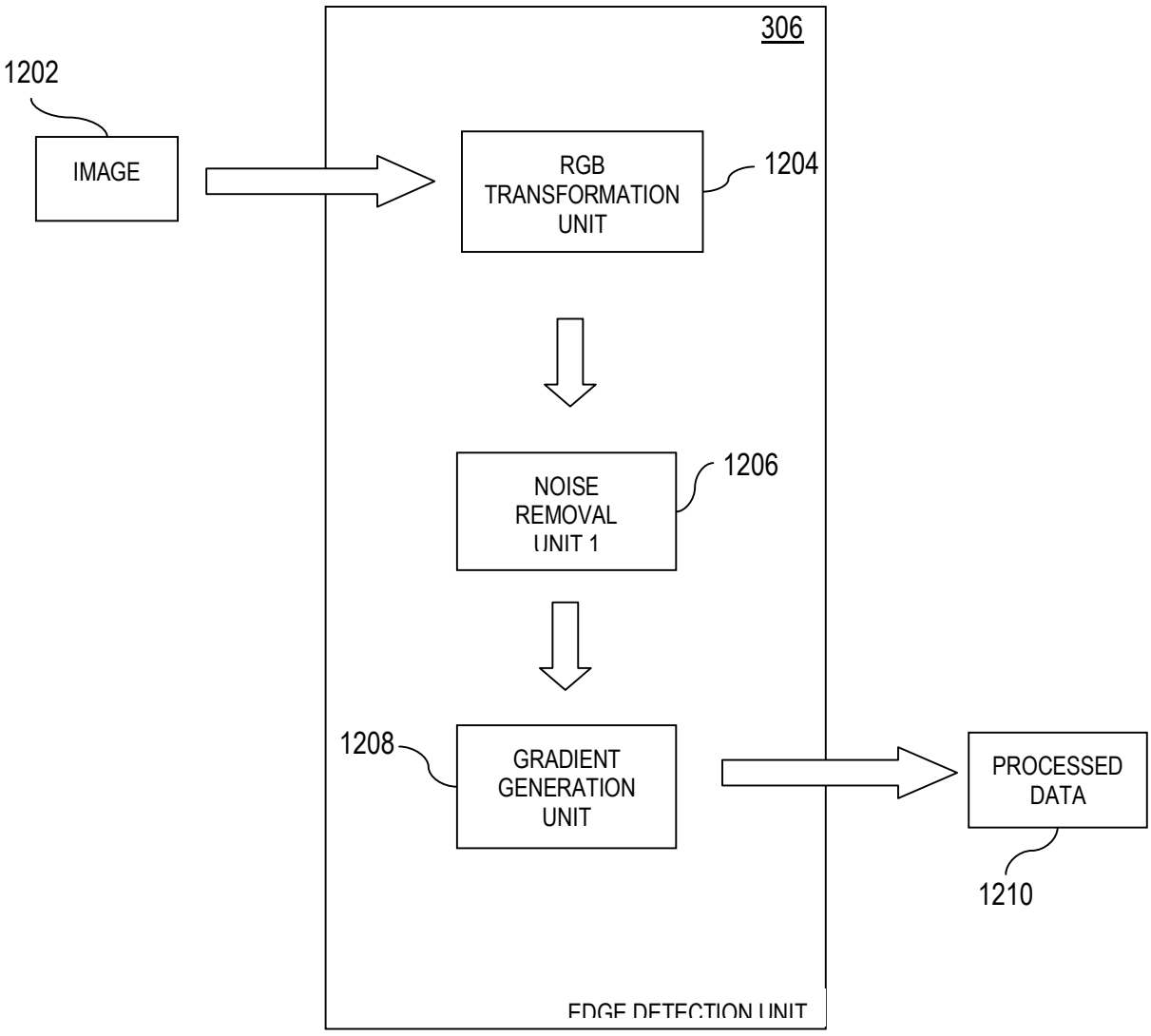

306
1202
IMAGE
RGB TRANSFORMATION UNIT
1204
NOISE REMOVAL UNIT 1
1206
1208
GRADIENT GENERATION UNIT
PROCESSED DATA
1210
EDGE DETECTION UNIT

FIG. 12

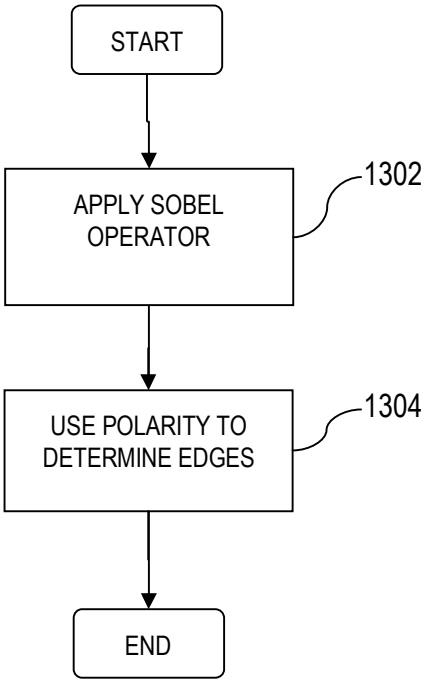

START
APPLY SOBEL OPERATOR
1302
USE POLARITY TO DETERMINE EDGES
1304
END

FIG. 13

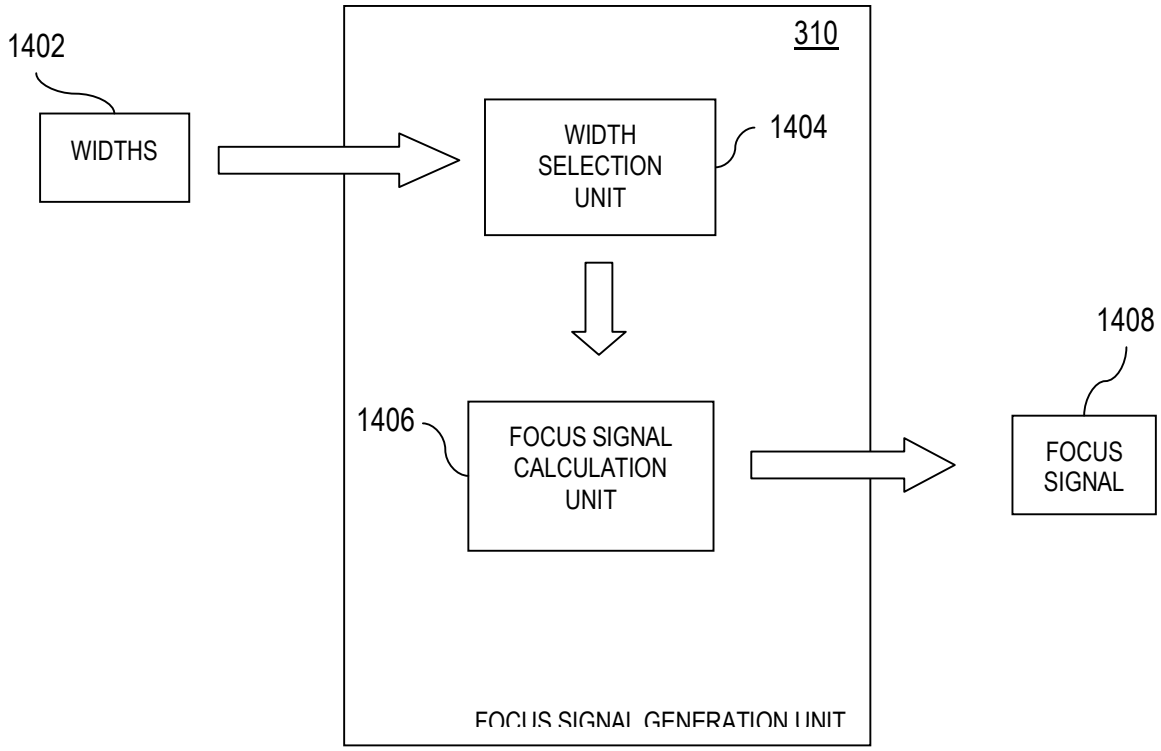

1402
WIDTHS
310
WIDTH SELECTION UNIT
1404
1406
FOCUS SIGNAL CALCULATION UNIT
1408
FOCUS SIGNAL
FOCUS SIGNAL GENERATION UNIT

FIG. 14

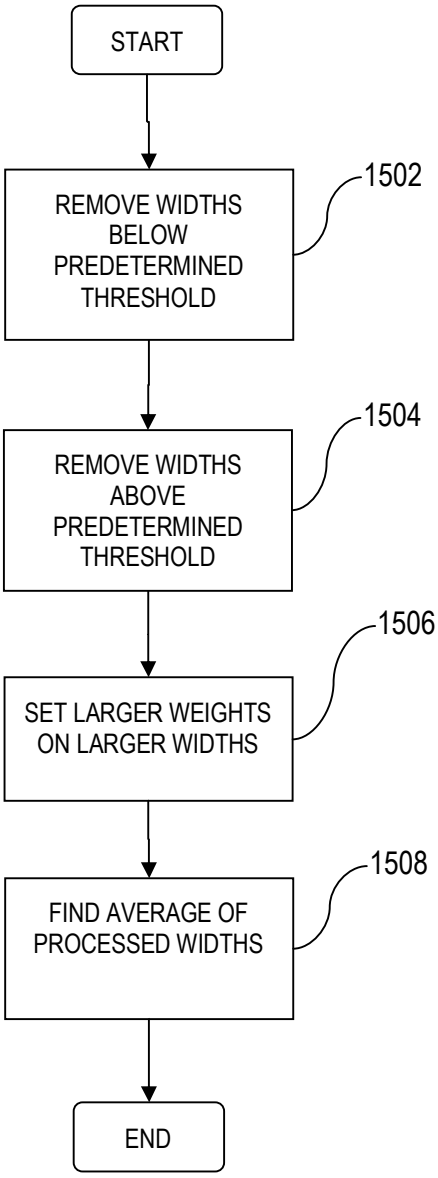

START
REMOVE WIDTHS BELOW PREDETERMINED THRESHOLD
1502
REMOVE WIDTHS ABOVE PREDETERMINED THRESHOLD
1504
SET LARGER WEIGHTS ON LARGER WIDTHS
1506
FIND AVERAGE OF PROCESSED WIDTHS
1508
END

FIG. 15

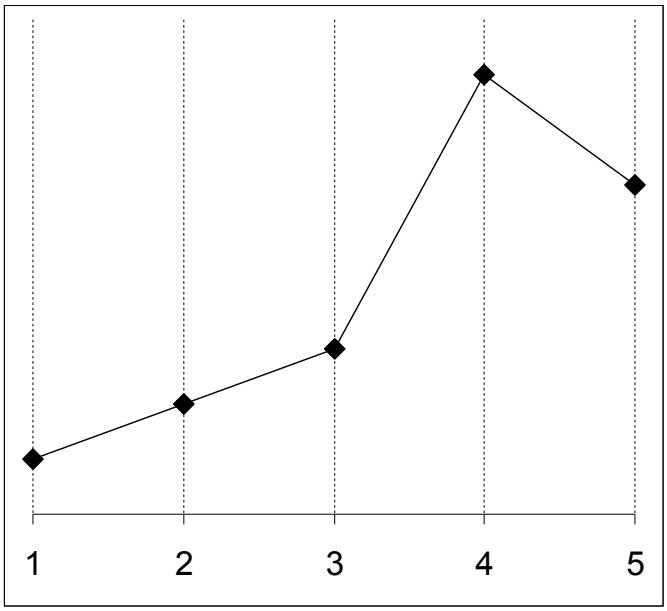


FIG. 16a

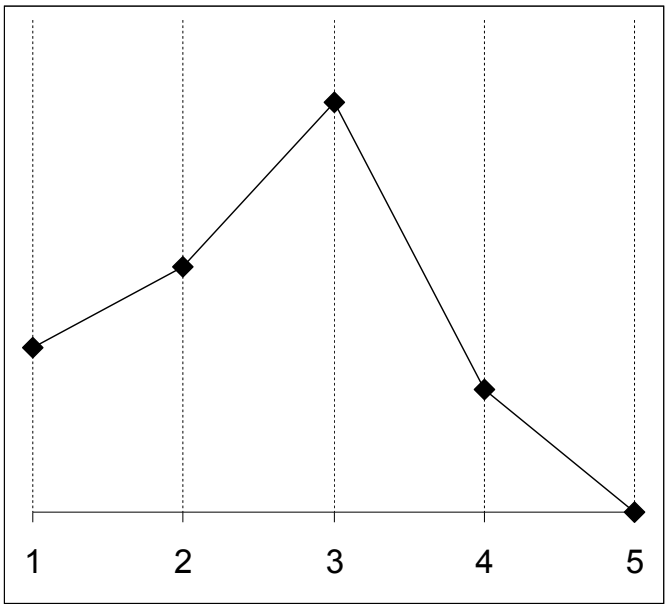


FIG. 16b

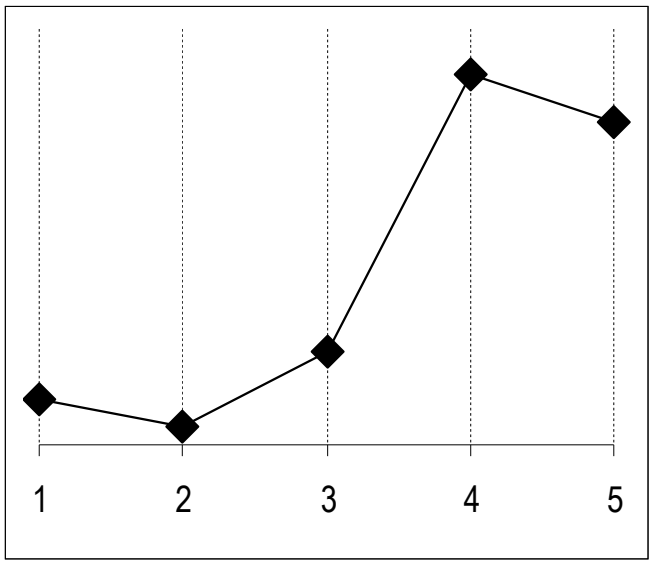


FIG. 17a

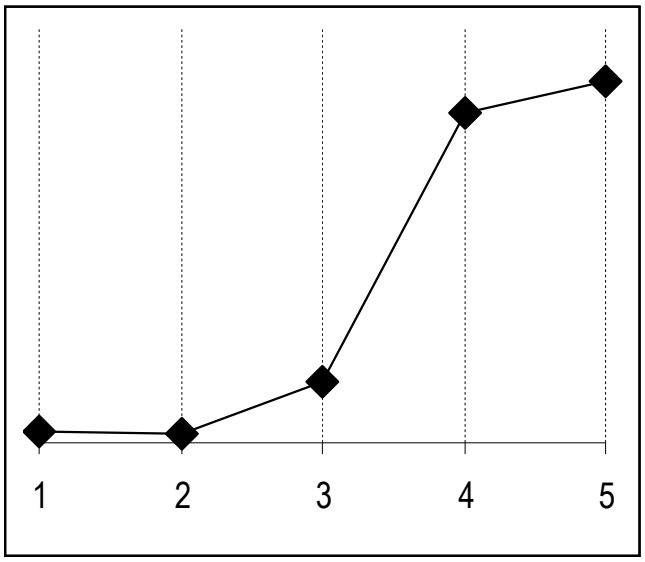


FIG. 17b