

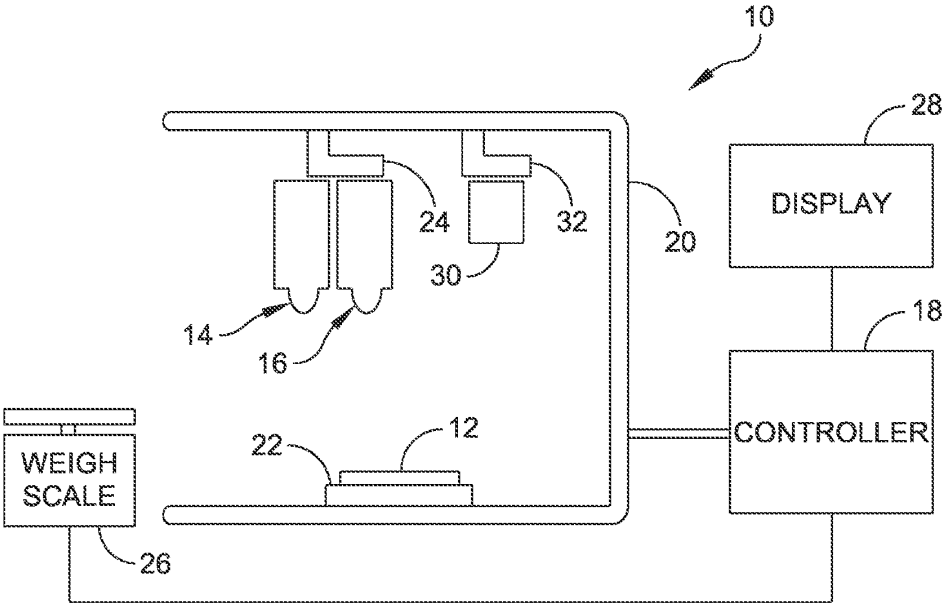


FIG. 1

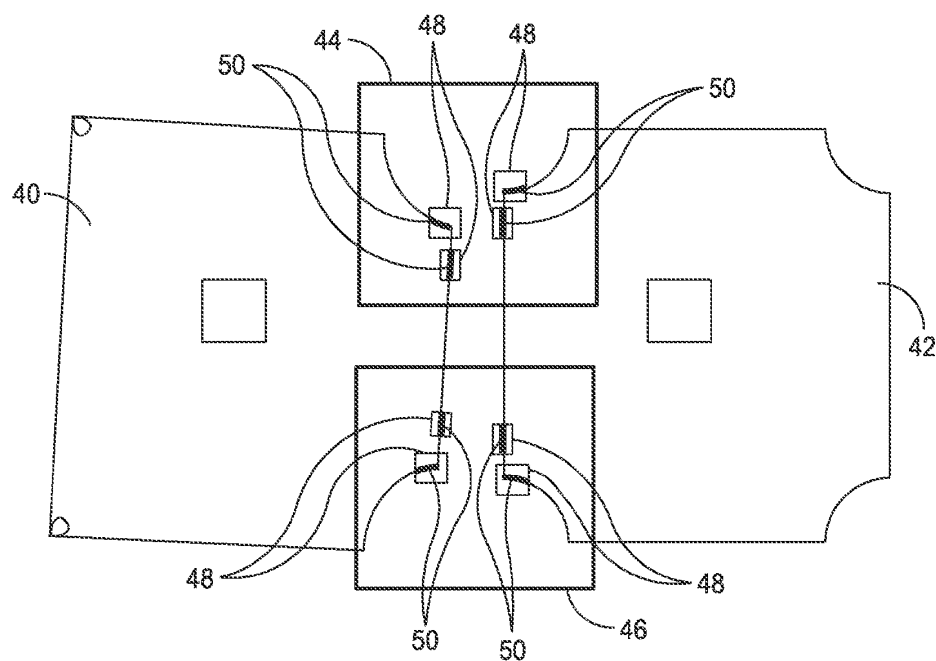


FIG. 2A

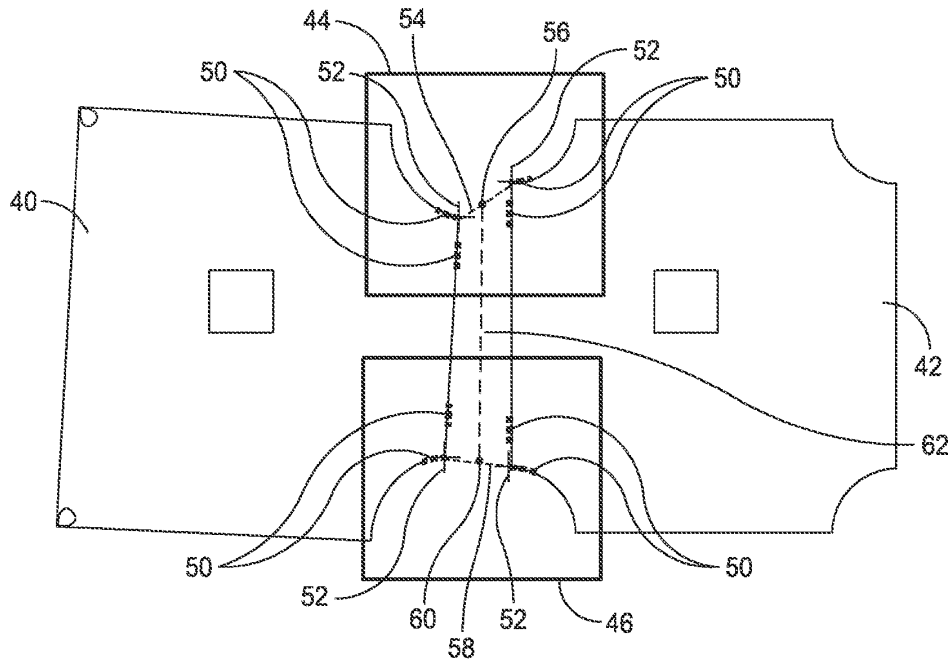


FIG. 2B

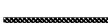
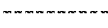
-  Camera FOV
-  Programmed edges
-  Programmed search boxes for edges
-  Intersection point
-  Center line across two adjacent intersection points
-  Midpoint of two adjacent intersection points to determine Start and End point of line
-  Line command

FIG. 2C

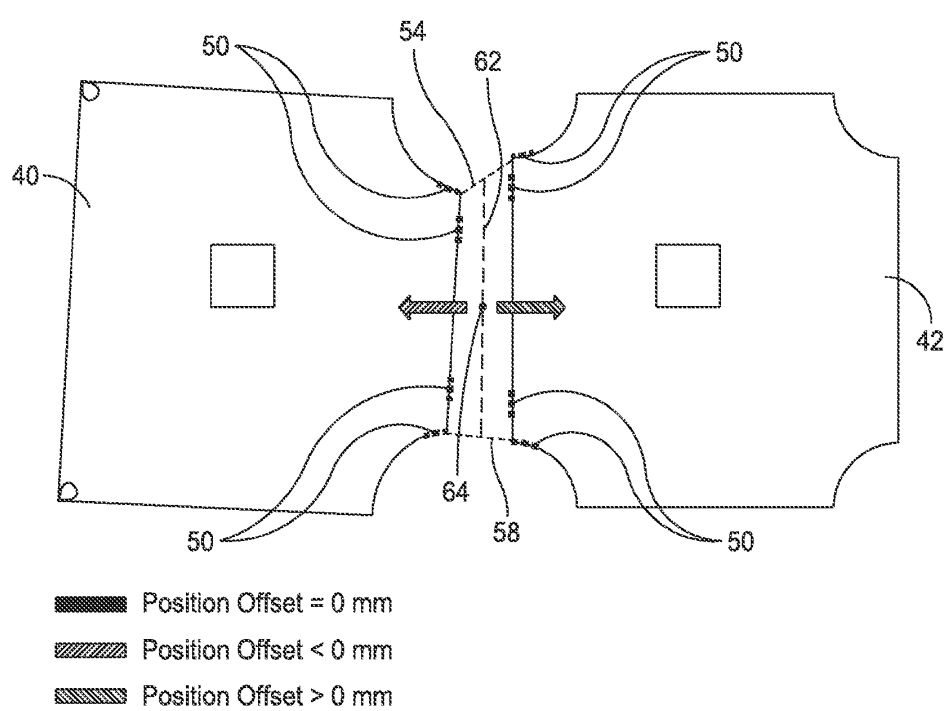


FIG. 3A

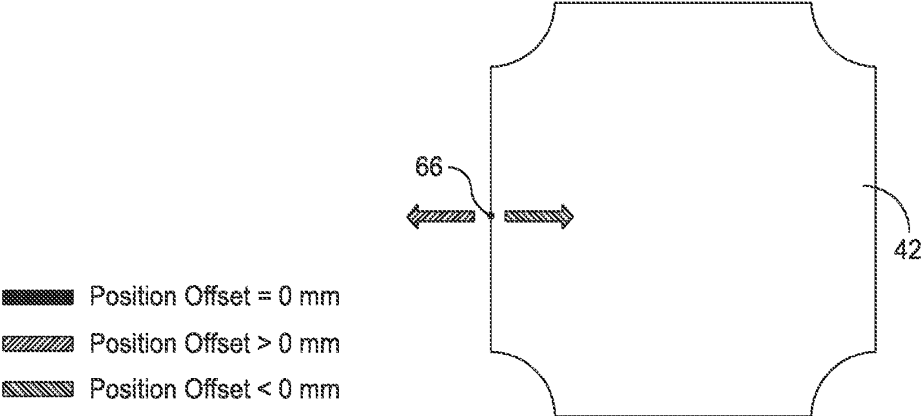


FIG. 3B

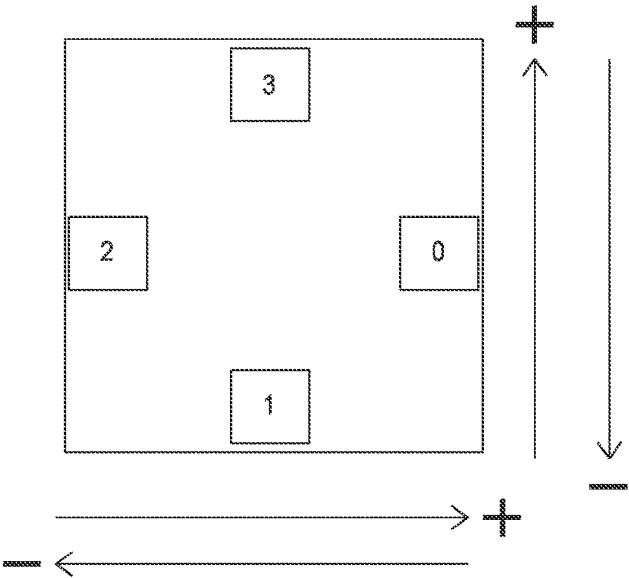


FIG. 4

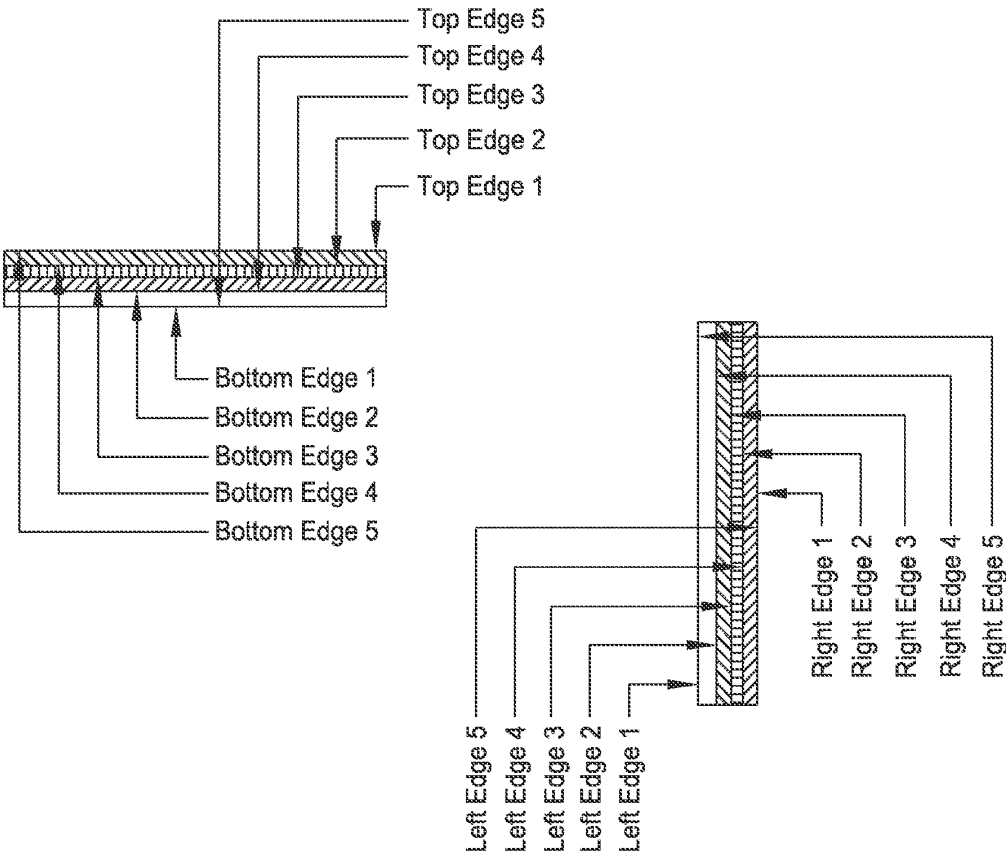


FIG. 5

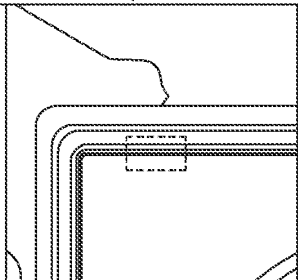
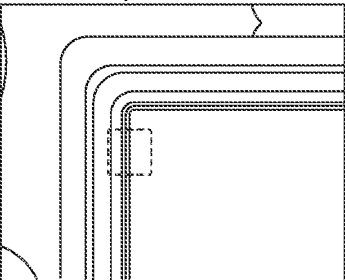
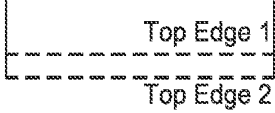
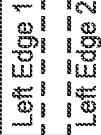
Model Template 1	Image Description	Model Template 2
	Camera Image with Edge ROI (Region of Interest)	
	Edge Sub Region	
	Strongest Edges Found in the Sub Region	
	Final Returned Strongest Edge in the sub region	

FIG. 6

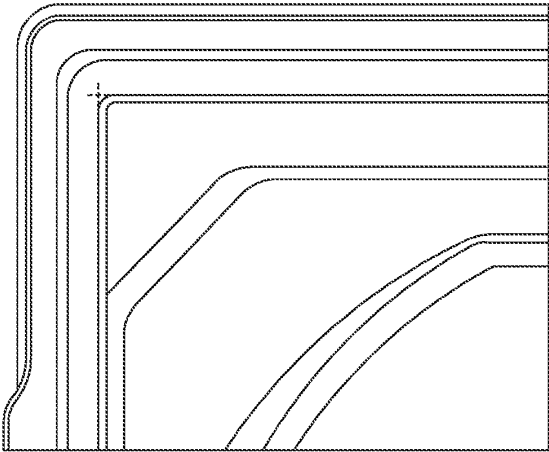


FIG. 7

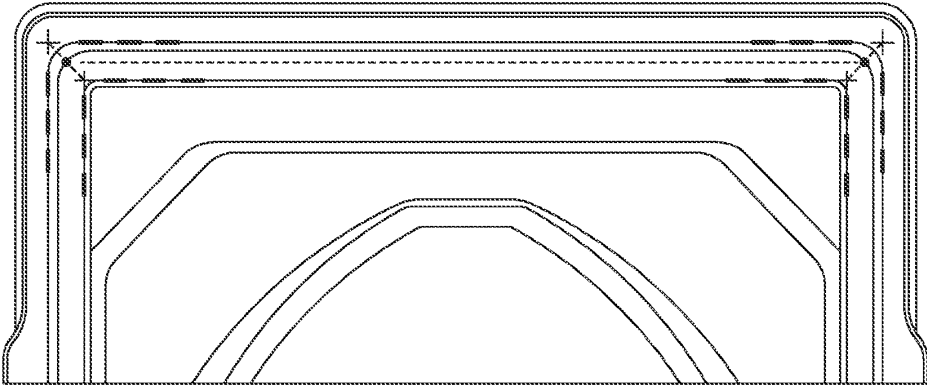


FIG. 8