SYSTEMS AND METHODS FOR DETECTING ANOMALIES IN OBJECTS

ABSTRACT

A system (100) and method for detecting an anomaly (102) of an optically transparent or translucent object (104) are disclosed. The system (100) and method include a light source (112) configured to emit light (120), a light transmission element (114) having a textured surface (126), and an optical couplant (116) configured to be disposed between the light transmission element (114) and the object (104). At least a portion of the light (120) emitted by the light source (112) is configured to pass into the light transmission element (114) through the textured surface (126) and pass into the object (104) through the optical couplant (116). At least a portion of the light (120) that passes into the object (104) internally reflects within the object (104) and impinges on the anomaly (102) to provide an illumination (130) that indicates the location of the anomaly (102).

Fig. 1