

APPARATUS FOR MANAGING NON-CONFORMANCE ANOMALIES IN A STRUCTURE AND ASSOCIATED SYSTEM AND METHOD

ABSTRACT

Disclosed herein is an apparatus and associated system and method for managing non-conformance anomalies in a structure. The apparatus generates a digital representation of the structure, maps anomalies, defines dynamically adjustable zones, and associates anomalies with corresponding zones. Each zone is linked to an inspection plan, which outlines anomaly evaluation criteria and corrective actions. The system automatically executes the inspection plan and generates instructions to guide corrective actions on the real structure. This dynamic, zone-based approach improves anomaly tracking, assessment, and resolution, to enable structured and adaptable anomaly management for manufacturing, maintenance, and repair applications.

Fig. 8