

ABSTRACT OF THE DISCLOSURE

METHOD AND SYSTEM FOR VISUALIZING EFFECTS OF CORROSION

A method and system for visualizing the effects of corrosion are provided. In the context of a method, a workpiece is interrogated with radiation, such as by interrogating the workpiece with x-ray radiation. By relying upon a radiographic technique, the workpiece may be hidden and may be interrogated without disassembly. The method generates a backscatter image of the workpiece based upon radiation backscattered from the workpiece. The method also compares one or more regions of the backscatter image of the workpiece with respect to backscatter images of different metal loss indicators. Each metal loss indicator is representative of a different amount of metal loss. As a result of the comparison, the method estimates the metal loss attributable to corrosion of the workpiece.

Fig. 1