

Title (en)

APPARATUS FOR IMAGING THE INNER SURFACE OF A CAVITY WHICH IS PREFERABLY CYLINDRICAL

Title (de)

VORRICHTUNG ZUR ABBILDUNG DER INNENFLÄCHE EINES VORZUGSWEISE ZYLINDRISCHEN HOHLRAUMS IN EINEM WERKSTÜCK

Title (fr)

DISPOSITIF POUR REPRÉSENTER LA SURFACE INTÉRIEURE D'UN ESPACE CREUX DE PRÉFÉRENCE CYLINDRIQUE

Publication

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Application

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Abstract (en)

[origin: WO2009003692A1] An apparatus for imaging the inner surface (4) of a cavity, which is preferably cylindrical, in a workpiece (8) has an optical system (2) with a panoramic view of preferably 360°, means for advancing the optical system (2) perpendicular to the plane of the panoramic view, a digital image sensor (10) with a planar image pick-up area on which the panoramic image recorded by the optical system (2) is imaged, and means which use the digital output signals from the image sensor (10) to generate a Cartesian image which is a development (40) of the inner surface of the cavity. According to the invention, the digital image sensor (10) is designed in such a manner that only output signals are generated in accordance with an annular band on the inner surface of the cavity on a plane essentially transverse to the direction in which the optical system is gradually advanced, wherein these output signals form the image contents of the lines of an overall Cartesian image.

IPC 8 full level

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CPC (source: EP)

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