Title (en)

METHOD AND DEVICE FOR AT LEAST PARTLY, PREFERABLY COMPLETELY DETERMINING THE EXTERNAL AND INTERNAL GEOMETRY OF A COMPONENT WITH AT LEAST ONE CAVITY

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ZUMINDEST ABSCHNITTSWEISEN, BEVORZUGT VOLLSTÄNDIGEN BESTIMMUNG DER ÄUSSEREN UND INNEREN GEOMETRIE EINES BAUTEILS MIT WENIGSTENS EINEM HOHLRAUM

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR DÉTERMINER, AU MOINS SUR CERTAINES PARTIES, DE PRÉFÉRENCE COMPLÈTEMENT, LA GÉOMÉTRIE EXTÉRIEURE ET INTÉRIEURE D'UNE PIÈCE COMPORTANT AU MOINS UNE CAVITÉ

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Abstract (en)

[origin: WO2018210501A1] The invention relates to a method for determining the external and internal geometry of a component (1) with at least one cavity, wherein - a component (1) to be measured is provided (S1) with at least one cavity, - the external geometry of the component (1) is determined (S2) by carrying out a 3D scan, - the wall thickness of at least one section of the component (1) is determined (S4) using ultrasound, - the internal and external component geometry of at least one section of the component (1) in particular is determined (S5) using x-ray computer tomography, and - the data obtained by means of the 3D scan, the ultrasound wall thickness measurement, and in particular the x-ray computer tomography is combined, wherein the internal geometry of the component (1) in the region of the at least one section measured using ultrasound is reconstructed (S6) from the external geometry data of the 3D scan and the data of the ultrasound wall thickness measurement. The invention further relates to a device for determining the external and internal geometry of the component (1).

IPC 8 full level

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Citation (search report)

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