

Title (en)

METHOD AND DEVICE FOR THE DETECTION OF SURFACE DEFECTS ON THE OUTER WALL OF A TRANSPARENT OR TRANSLUCENT OBJECT

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DETEKTION VON OBERFLÄCHENFEHLERN AUF EINER AUSSENWAND EINES TRANSPARENTEN ODER DURCHSCHEINENDEN OBJEKTES

Title (fr)

PROCEDE ET DISPOSITIF POUR DETECTER DES DEFAUTS DE SURFACE PRESENTES PAR LA PAROI EXTERNE D'UN OBJET TRANSPARENT OU TRANSLUCIDE

Publication

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Application

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Abstract (en)

[origin: WO2004040277A1] The invention relates to a device for the detection of surface defects on the outer wall (2) of a transparent or translucent object (3). The inventive device comprises: a large, extended uniform light source (4) which is designed to send an incident light beam (5) onto a surface of the outer wall (2) of the object; a linear light beam-measuring sensor (8) which is disposed such as to recover the light beam reflected (9) by a linear area of the outer wall (2), said area being illuminated by the light source (4); means (12) which ensure the relative movement between (i) the object and (ii) the light source (4) and the linear measuring sensor (8), such as to move the linear measuring area on the outer wall (2) of the object in order to cover the surface to be inspected; and a unit (15) for analysing and processing the light beams received by the measuring sensor (8), which is designed to create an image and to identify the presence therein of a surface defect corresponding to a dark area.

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