

Title (en)  
SYSTEM FOR DETERMINING AT LEAST PART OF THE SHAPE OF A THREE-DIMENSIONAL OBJECT, AND CORRESPONDING METHOD

Title (de)  
SYSTEM ZUR BESTIMMUNG VON MINDESTENS EINES TEILS DER FORM EINES DREIDIMENSIONALEN OBJEKTS UND ZUGEHÖRIGES VERFAHREN

Title (fr)  
SYSTEME DE DETERMINATION DE LA FORME AU MOINS PARTIELLE D'UN OBJET TRIDIMENTIONNEL ET PROCEDE CORRESPONDANT

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Application  
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Abstract (en)  
[origin: WO2015082844A1] The invention relates to a system (1) and a method for determining at least part of the shape of a three-dimensional object (2). The system comprises a pressure-field-detecting member (6), arranged so that the object can be applied thereto, as well as: elements (5) for connecting the detector member to means (3) for calculating the distribution of measured pressures in order to deduce the shape therefrom, said calculation means (3), and means (9) for applying the object to the detector member with a uniform pressure. The detector member (6) comprises a piece (14) provided with a sheet (15) of flexible plastic material solidly connected to a grid (16) of pressure sensors (17), said grid comprising an intermediate layer. The intermediate layer has a resistivity that varies according to the pressure and includes a microcrystalline silicon semiconductor wafer having a thickness less than or equal to 50 nanometres.

IPC 8 full level  
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