

Title (en)

3D SURFACE INSPECTION SYSTEM USING 2D IMAGES AND METHOD

Title (de)

3D-OBERFLÄCHENINSPEKTIONSSYSTEM MITTELS 2D-AUFNAHMEN UND VERFAHREN

Title (fr)

SYSTÈME D'INSPECTION DE SURFACE 3D AU MOYEN DE PRISES DE VUE 2D ET PROCÉDÉ

Publication

EP 2753895 A1 20140716 (DE)

Application

EP 12759690 A 20120914

Priority

- EP 11187504 A 20111102
- EP 2012068046 W 20120914
- EP 12759690 A 20120914

Abstract (en)

[origin: EP2589925A1] The system (1) has a measuring desk (10), on which components (4, 120, 130) are opened for three-dimensional (3D) space acquisition. A set of cameras (7', 7'', 7''', 7'''', 7''''') generates two-dimensional (2D) recordings of one of the components. A computer compares the 2D recordings with a deposited 3D model of the component. A 3D model of the component is measured by best fit of 2D recording and the deposited 3D model of the component, where the system performs ambient light suppression by monochromatic illumination and image evaluation. An independent claim is also included for a method for performing 3D detection of a component.

IPC 8 full level

G01B 11/245 (2006.01); **G01B 11/25** (2006.01)

CPC (source: EP US)

G01B 11/245 (2013.01 - EP US); **G01B 11/25** (2013.01 - EP US); **G01N 21/95** (2013.01 - US)

Citation (search report)

See references of WO 2013064297A1

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