Title (en)

OPTICAL COMPUTERIZED METHOD FOR THE 3D MEASUREMENT OF AN OBJECT BY FRINGE PROJECTION AND USE OF A PHASE-SHIFT METHOD, CORRESPONDING SYSTEM

Title (de)

ELEKTRONISCHES OPTISCHES VERFAHREN ZUR 3D-MESSUNG EINES OBJEKTS DURCH RANDPROJEKTION UND VERWENDUNG EINES PHASENVERSCHIEBUNGSVERFAHRENS SOWIE ENTSPRECHENDES SYSTEM

Title (fr)

PROCEDE OPTICO-INFORMATIQUE DE MESURE 3D D'UN OBJET EN RELIEF PAR PROJECTION DE FRANGES ET UTILISATION D'UNE METHODE A DECALAGE DE PHASE, SYSTEME CORRESPONDANT

Publication

EP 2095069 A2 20090902 (FR)

Application

EP 07871965 A 20071218

Priority

- FR 2007052551 W 20071218
- FR 0655661 A 20061219

Abstract (en)

[origin: FR2910123A1] The method involves implementing four projection axes of a light fringe on an object (6), where an origin of each projection axis is considered as an illumination point disposed at a virtual tetrahedron. Four shooting points are arranged along four shooting axes (7), where each shooting axis is a median of the tetrahedron. A set of images containing a portion of outer surfaces of the object is illuminated by the illumination points of the projection axis. The images illuminated by the illumination points are captured by a charge coupled device camera (8). An independent claim is also included for a system for 3-dimensional measuring of an outer surface of an object.

IPC 8 full level

G01B 11/25 (2006.01)

CPC (source: EP US)

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Citation (search report)

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Designated contracting state (EPC)

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DOCDB simple family (publication)

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