

Title (en)

DEVICE FOR OPTICALLY INSPECTING AN AT LEAST PARTIALLY REFLECTING SURFACE OF AN ITEM

Title (de)

VORRICHTUNG ZUM OPTISCHEN INSPIZIEREN EINER ZUMINDEST TEILWEISE GLÄNZENDEN OBERFLÄCHE AN EINEM GEGENSTAND

Title (fr)

DISPOSITIF PERMETTANT L'INSPECTION OPTIQUE D'UNE SURFACE AU MOINS PARTIELLEMENT BRILLANTE SUR UN OBJET

Publication

**EP 2391884 A1 20111207 (DE)**

Application

**EP 09810743 A 20091223**

Priority

- DE 2009001812 W 20091223
- DE 102008064562 A 20081229

Abstract (en)

[origin: WO2010075846A1] The invention relates to a device for optically inspecting an at least partially reflecting surface of an item, having a first and at least one second crossbeam (12, 14) each forming a section (32) largely in the shape of a circular segment. The crossbeams (12, 14) are disposed at a longitudinal distance (D) from one another, defining a longitudinal axis (17). The two crossbeams (12, 14) are held at the longitudinal distance (D) by means of a plurality of longitudinal beams (16). The longitudinal beams (16) are disposed at a defined radial distance (38) from the sections (32) in the shape of circular segments. The crossbeams (12, 14) support a light-transparent diffusing screen (34) forming a tunnel-shaped inspection space (36). A plurality of light sources (48) are disposed outside of the tunnel-shaped inspection space (36) behind the diffusing screen, said sources being controllable individually or in small groups in order to generate variable light-dark patterns (90) on the diffusing screen. At least one camera (74, 78) is set up in the tunnel-shaped inspection space (36).

IPC 8 full level

**G01N 21/88** (2006.01); **G01N 21/15** (2006.01); **G01N 21/95** (2006.01)

CPC (source: EP US)

**G01N 21/15** (2013.01 - EP US); **G01N 21/8806** (2013.01 - EP US); **G01N 21/9515** (2013.01 - EP US); **G01N 2021/151** (2013.01 - EP US); **G01N 2021/1772** (2013.01 - EP US); **G01N 2021/1774** (2013.01 - EP US); **G01N 2021/8812** (2013.01 - EP US); **G01N 2021/8816** (2013.01 - EP US); **G01N 2021/8835** (2013.01 - EP US); **G01N 2201/0245** (2013.01 - EP US); **G01N 2201/0614** (2013.01 - EP US); **G01N 2201/0626** (2013.01 - EP US); **G01N 2201/0634** (2013.01 - EP US); **G01N 2201/0694** (2013.01 - EP US)

Citation (search report)

See references of WO 2010075846A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**DE 102008064562 A1 20100708**; EP 2391884 A1 20111207; JP 2012514186 A 20120621; JP 5613682 B2 20141029; US 2011310242 A1 20111222; US 8605146 B2 20131210; WO 2010075846 A1 20100708

DOCDB simple family (application)

**DE 102008064562 A 20081229**; DE 2009001812 W 20091223; EP 09810743 A 20091223; JP 2011542674 A 20091223; US 201113171105 A 20110628