

Title (en)

DEVICE AND METHOD FOR DETECTING SCRATCHES

Title (de)

VORRICHTUNG UND VERFAHREN ZUR DETEKTION VON KRATZERN

Title (fr)

PROCEDE ET DISPOSITIF POUR DETECTER DES RAYURES

Publication

**EP 1751526 A1 20070214 (DE)**

Application

**EP 05707360 A 20050212**

Priority

- EP 2005001440 W 20050212
- DE 102004026375 A 20040529

Abstract (en)

[origin: WO2005116616A1] The invention relates to a device and a corresponding method for detecting scratches on the surface (2) of a material, in particular glass. Said device comprises an illumination unit (3) and a recording unit (4), which register a scanning line (6) on the surface (2) of the material and can be displaced in relation to said surface (2). In order to more accurately identify scratches, the illumination unit (3) comprises at least one light strip (9), which generates parallel light pools transversally to the scanning line (6), said pools being diffuse or quasi-diffuse along the scanning line (6) and preferably at least one light source (16), which generates a diffuse or quasi-diffuse light transversally to the scanning line (6).

IPC 8 full level

**G01N 21/958** (2006.01); **G01N 21/896** (2006.01)

CPC (source: EP KR US)

**G01N 21/896** (2013.01 - EP US); **G01N 21/958** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2005116616A1

Citation (examination)

- WO 0026647 A1 20000511 - IMAGE PROCESSING SYSTEMS INC [CA]
- WO 0011400 A1 20000302 - INTELLIGENT REASONING SYSTEMS [US]
- JP S6211135 A 19870120 - HITACHI ELECTR ENG
- DE 19838410 A1 19990325 - NIPPON MAXIS CO [JP]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2005116616 A1 20051208**; CA 2567061 A1 20051208; CA 2567061 C 20150616; CN 100590426 C 20100217; CN 1961208 A 20070509; DE 102004026375 A1 20051222; DE 102004026375 B4 20070322; EP 1751526 A1 20070214; IL 179385 A0 20070308; IL 179385 A 20110228; JP 2008501105 A 20080117; JP 4918032 B2 20120418; KR 100907247 B1 20090710; KR 20070083397 A 20070824; NO 20065925 L 20070223; US 2007252996 A1 20071101; US 7453563 B2 20081118

DOCDB simple family (application)

**EP 2005001440 W 20050212**; CA 2567061 A 20050212; CN 200580017521 A 20050212; DE 102004026375 A 20040529; EP 05707360 A 20050212; IL 17938506 A 20061116; JP 2007513700 A 20050212; KR 20067027896 A 20061229; NO 20065925 A 20061220; US 57822005 A 20050212