

Title (en)
DEVICE AND METHOD FOR OPTICAL CONTROL OF CROCKERY ITEMS SUCH AS ENAMELLED PLATES OR ANY ENAMELLED CERAMIC PRODUCT

Title (de)
VORRICHTUNG UND VERFAHREN ZUR OPTISCHEN KONTROLLE VON GLASIERTEN TELLERN ODER ALLEN GLASIERTEN KERAMISCHEN PRODUKTEN

Title (fr)
DISPOSITIF ET PROCEDE DE CONTROLE OPTIQUE DE PIECES DE VAISSELLE COMME DES ASSIETTES EMAILLEES OU TOUT PRODUIT CERAMIQUE EMAILLE

Publication
EP 1264171 A1 20021211 (FR)

Application
EP 01919515 A 20010313

Priority

- FR 0100752 W 20010313
- FR 0003410 A 20000314

Abstract (en)
[origin: WO0169214A1] The invention concerns a method and a device for controlling the surface of ceramic tableware products/ ceramic crockery items (and the like, in accordance with the general definition provided in the introduction). The invention is characterised in that it consists, with a single equipment, in: A) providing a global diffuse illumination for the whole or for zones of the products; B) observing the product, with one or more observation means, by reflection on the latter, towards the observation means, of the global diffuse illumination or localised diffuse illumination coming from at least one light-emitting zone adapted to provide brightness on at least a selected portion of the product. The invention enables to highlight and locate, with one single apparatus, all types of defects, in accordance with multi-purpose and efficient processes even concerning sensitive aspects such as complex shape conjunction, brightness, white dots on white background, which was not possible in prior art.

IPC 1-7
G01N 21/88

IPC 8 full level
G01N 21/88 (2006.01)

CPC (source: EP US)
G01N 21/8806 (2013.01 - EP US); **G01N 21/9036** (2013.01 - EP US); **G01N 21/909** (2013.01 - EP US); **G03B 15/06** (2013.01 - EP); **G01N 2021/8812** (2013.01 - EP US)

Citation (search report)
See references of WO 0169214A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
FR 2806478 A1 20010921; **FR 2806478 B1 20020510**; AU 4660201 A 20010924; EP 1264171 A1 20021211; US 2003184740 A1 20031002; US 2006180775 A1 20060817; US 7041997 B2 20060509; WO 0169214 A1 20010920

DOCDB simple family (application)
FR 0003410 A 20000314; AU 4660201 A 20010313; EP 01919515 A 20010313; FR 0100752 W 20010313; US 22173602 A 20021218; US 36853106 A 20060307