

Title (en)

METHOD AND APPARATUS FOR RELIABLY LASER MARKING ARTICLES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ZUVERLÄSSIGEN LASERMARKIERUNG VON ARTIKELN

Title (fr)

PROCÉDÉ ET APPAREIL PERMETTANT DE MARQUER AU LASER DES ARTICLES DE MANIÈRE FIABLE

Publication

**EP 2683519 A4 20151111 (EN)**

Application

**EP 11860642 A 20110310**

Priority

US 2011027937 W 20110310

Abstract (en)

[origin: WO2012121732A1] Disclosed is a method for creating a mark 152 with desired properties on an anodized specimen 150 and the mark 152 itself. The method includes providing a laser marking system 10, 12, 14, 16 18, 20, 22 having controllable laser pulse parameters, determining the laser pulse parameters associated with the desired properties and directing the laser marking system 10, 12, 14, 16 18, 20, 22 to mark the article 18 using the selected laser pulse parameters. Laser marks 162 so made have optical density that ranges from transparent to opaque, white color, texture indistinguishable from the surrounding article and durable, substantially intact anodization 160. The anodization 120 may also be dyed and optionally bleached to create other colors 136, 144.

IPC 8 full level

**B23K 26/18** (2006.01); **B23K 26/36** (2014.01); **G06K 7/10** (2006.01); **G06V 30/224** (2022.01); **H01S 3/10** (2006.01); **B23K 103/10** (2006.01)

CPC (source: EP KR)

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Citation (search report)

- [E] WO 2011047325 A1 20110421 - APPLE INC [US], et al
- [X] US 2004000490 A1 20040101 - CHANG SULI [TW]
- See references of WO 2012121732A1

Cited by

US10787753B2

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

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DOCDB simple family (application)

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