

Title (en)

LASER PROCESS FOR THE MODIFICATION OF METALLIC NANOPARTICLES ON LARGE SIZE GLASS SUBSTRATES

Title (de)

LASERVERFAHREN ZUR MODIFIZIERUNG VON METALLISCHEN NANOPARTIKELN AUF GROSSEN GLASSUBSTRATEN

Title (fr)

PROCÉDÉ AU LASER POUR LA MODIFICATION DE NANOPARTICULES MÉTALLIQUES SUR DES SUBSTRATS EN VERRE DE GRANDE DIMENSION

Publication

EP 3044176 A1 20160720 (EN)

Application

EP 14777281 A 20140910

Priority

- EP 13183701 A 20130910
- EP 2014069274 W 20140910
- EP 14777281 A 20140910

Abstract (en)

[origin: WO2015036427A1] A method for modification of optical properties of a glass substrate (1) by modification of nanoparticles comprising a) application of at least one nanoparticle containing layer (2.2) onto the glass substrate (1), b) focusing a laser line (4) onto the nanoparticle containing layer (2.2), c) laser processing of the glass substrate (1) with nanoparticle containing layer (2.2) by movement of the glass substrate (1) in direction x relative to the laser line (4), wherein the glass substrate (1) has got a width of 0.10 m to 5.00 m perpendicular to the direction x and the optical properties of the nanoparticle containing layer (2.2) are modified in step c).

IPC 8 full level

C03C 17/00 (2006.01); **B41M 5/26** (2006.01); **C03C 17/09** (2006.01); **C03C 17/36** (2006.01)

CPC (source: EP)

B41M 5/262 (2013.01); **C03C 17/002** (2013.01); **C03C 17/007** (2013.01); **C03C 17/09** (2013.01); **C03C 2218/32** (2013.01)

Citation (search report)

See references of WO 2015036427A1

Citation (examination)

US 2010190038 A1 20100729 - OSAKABE KINOBU [JP], et al

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2015036427 A1 20150319; EP 3044176 A1 20160720

DOCDB simple family (application)

EP 2014069274 W 20140910; EP 14777281 A 20140910