

Title (en)
PULSED-MODE DIRECT-WRITE LASER METALLIZATION

Title (de)
LASERMETALLISIERUNG DURCH DIREKTSCHREIBEVORGANG IM IMPULSBETRIEB

Title (fr)
MÉTALLISATION AU LASER PAR ÉCRITURE DIRECTE EN MODE PULSÉ

Publication
EP 3140853 A4 20180117 (EN)

Application
EP 15776752 A 20150405

Priority
• US 201461977766 P 20140410
• IB 2015052476 W 20150405

Abstract (en)
[origin: WO2015155662A1] A method for manufacturing includes coating a substrate (22) with a matrix (28) containing a material to be patterned on the substrate. A pattern is fixed in the matrix by directing a pulsed energy beam to impinge on a locus of the pattern so as to cause adhesion of the material to the substrate along the pattern without fully sintering the material in the pattern. The matrix remaining on the substrate outside the fixed pattern is removed, and after removing the matrix, the material in the pattern is sintered.

IPC 8 full level
H01L 21/477 (2006.01); **H01L 21/4763** (2006.01); **H05K 3/02** (2006.01)

CPC (source: EP IL KR)
H01L 21/705 (2013.01 - EP IL KR); **H05K 3/12** (2013.01 - EP IL KR); **H05K 3/1283** (2013.01 - EP IL KR); **H05K 3/38** (2013.01 - IL KR); **H05K 3/38** (2013.01 - EP); **H05K 2203/107** (2013.01 - EP IL KR); **H05K 2203/1492** (2013.01 - EP IL KR)

Citation (search report)
• No further relevant documents disclosed
• See references of WO 2015155662A1

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)
WO 2015155662 A1 20151015; CN 106133891 A 20161116; CN 106133891 B 20200303; EP 3140853 A1 20170315; EP 3140853 A4 20180117; IL 247946 A0 20161130; IL 247946 B 20220801; JP 2017513040 A 20170525; JP 6635313 B2 20200122; KR 102345450 B1 20211229; KR 20160144985 A 20161219; TW 201543978 A 20151116; TW I661752 B 20190601

DOCDB simple family (application)
IB 2015052476 W 20150405; CN 201580015581 A 20150405; EP 15776752 A 20150405; IL 24794616 A 20160921; JP 2016552929 A 20150405; KR 20167026671 A 20150405; TW 104111474 A 20150409