

Title (en)
ULTRAVIOLET CURING PROCESS FOR SPIN-ON DIELECTRIC MATERIALS USED IN PRE-METAL AND/OR SHALLOW TRENCH ISOLATION APPLICATIONS

Title (de)
UNLTRAUVIOLET-AUSHÄRTPROZESS FÜR IN VORMETALL- UND/ODER SEICHTGRABEN-ISOLATIONSANWENDUNGEN VERWENDETE DIELEKTRISCHE AUFSCHLEUDERMATERIALIEN

Title (fr)
PROCEDE DE TRAITEMENT ULTRAVIOLET POUR DES MATERIAUX DIELECTRIQUES APPLIQUES PAR CENTRIFUGATION UTILISES DANS DES APPLICATIONS D'ISOLATION PREMETALLIQUES ET/OU DE TRANCHEES PEU PROFONDES

Publication
EP 1889287 A1 20080220 (EN)

Application
EP 05769209 A 20050609

Priority
US 2005020861 W 20050609

Abstract (en)
[origin: WO2007027165A1] A UV curing process for a dielectric material used in pre-metal and shallow trench isolation applications comprises coating a suitable dielectric material onto a substrate; and exposing the dielectric material to ultraviolet radiation in an amount effective to reduce an organic content and/or increase a density and/or increase a wet etch resistance of the dielectric material. Optionally, the UV cured dielectric material may be exposed to multiple ultraviolet radiation patterns.

IPC 8 full level
H01L 21/3105 (2006.01); **H01L 21/312** (2006.01)

CPC (source: EP US)
G03F 7/0757 (2013.01 - EP); **H01L 21/02348** (2013.01 - US); **H01L 21/31058** (2013.01 - EP); **H01L 21/02118** (2013.01 - EP US); **H01L 21/02126** (2013.01 - EP US); **H01L 21/02134** (2013.01 - EP US); **H01L 21/02137** (2013.01 - EP US); **H01L 21/02203** (2013.01 - EP US); **H01L 21/02216** (2013.01 - EP); **H01L 21/02282** (2013.01 - EP)

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 2007027165 A1 20070308; CN 101194344 A 20080604; EP 1889287 A1 20080220; JP 2008544484 A 20081204

DOCDB simple family (application)
US 2005020861 W 20050609; CN 200580050060 A 20050609; EP 05769209 A 20050609; JP 2008515678 A 20050609