

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)

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