

Title (en)

TREATMENT OF A SURFACE MODIFICATION LAYER FOR CONTROLLED BONDING OF THIN SHEETS WITH CARRIERS

Title (de)

BEHANDLUNG EINER OBERFLÄCHENÄNDERUNGSSCHICHT ZUM GESTEUERTEN KLEBEN DÜNNER BOGEN MIT TRÄGERN

Title (fr)

TRAITEMENT D'UNE COUCHE DE MODIFICATION DE SURFACE POUR LA LIAISON CONTRÔLÉE DE FEUILLES MINCES AVEC SUPPORTS

Publication

EP 3099484 A1 20161207 (EN)

Application

EP 15703682 A 20150127

Priority

- US 201461931912 P 20140127
- US 2015013017 W 20150127

Abstract (en)

[origin: WO2015113023A1] A method of controllably bonding a thin sheet to a carrier, wherein the thin sheet has a thin sheet bonding surface, and the carrier has a carrier bonding surface. Depositing a surface modification layer onto at least one of the thin sheet bonding surface and the carrier bonding surface so as to obtain a first surface energy on the one of the thin sheet bonding surface and the carrier bonding surface. Then, treating the surface modification layer so as to change the first surface energy to a second surface energy, wherein the second surface energy is greater than the first. And bonding the thin sheet bonding surface to the carrier bonding surface via the surface modification layer. Depositing the surface modification layer, and treating it, may be done by plasma polymerization processes.

IPC 8 full level

B32B 17/06 (2006.01); **B32B 7/06** (2006.01); **C03C 17/28** (2006.01); **C03C 27/06** (2006.01); **C23C 16/56** (2006.01)

CPC (source: EP KR US)

B05D 1/62 (2013.01 - KR); **B32B 7/06** (2013.01 - EP KR US); **B32B 17/06** (2013.01 - EP KR); **B32B 17/10** (2013.01 - KR); **C03C 17/32** (2013.01 - EP KR); **C03C 27/10** (2013.01 - EP KR); **C09J 5/02** (2013.01 - EP KR); **B05D 1/62** (2013.01 - EP); **C03C 2218/32** (2013.01 - EP KR); **C09J 2400/143** (2013.01 - EP KR); **C09J 2400/146** (2013.01 - EP KR)

Citation (search report)

See references of WO 2015113023A1

Designated contracting state (EPC)

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DOCDB simple family (application)

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