

Title (en)

METHODS AND APPARATUS FOR PRODUCING SCORED MEDIUMS, AND ARTICLES AND COMPOSITIONS RESULTING THERE FROM

Title (de)

VERFAHREN UND VORRICHTUNG ZUR HERSTELLUNG GEKERBTER MEDIEN SOWIE RESULTIERENDE ARTIKEL UND ZUSAMMENSETZUNGEN DARAUS

Title (fr)

PROCÉDÉS ET APPAREILS POUR PRODUIRE DES SUPPORTS ENTAILLÉS ET ARTICLES ET COMPOSITIONS EN RÉSULTANT

Publication

EP 2969526 A4 20160831 (EN)

Application

EP 14762807 A 20140317

Priority

- US 201361802009 P 20130315
- US 2014030909 W 20140317

Abstract (en)

[origin: WO2014146036A1] Methods and apparatus for making scored mediums, particularly but not exclusively for use in the corrugated board arts, and articles of manufacture and compositions made there with and made there by. When at least one scored medium is used in a layered or laminated article, and particularly when selectively used as a liner member and/or fluted member in a corrugated board, whether as part of a corrugated board article of manufacture or a laminate with at least one other member, the article will possess mechanical qualities superior to those that would otherwise exist if a non-scored medium was/were used. To achieve these desired qualities, a major axis of the scores formed in the scored medium runs askew, and preferably perpendicular, to the direction of beam strength in any article or article intermediate to which the scored medium is to be associated.

IPC 8 full level

B32B 3/26 (2006.01); **B32B 3/00** (2006.01); **B32B 3/02** (2006.01); **B32B 3/08** (2006.01); **B32B 3/28** (2006.01); **B32B 3/30** (2006.01);
B32B 7/00 (2006.01); **B32B 7/04** (2006.01); **B32B 7/12** (2006.01); **B32B 29/00** (2006.01); **B32B 29/08** (2006.01)

CPC (source: EP)

B32B 3/00 (2013.01); **B32B 3/02** (2013.01); **B32B 3/08** (2013.01); **B32B 3/26** (2013.01); **B32B 3/266** (2013.01); **B32B 3/28** (2013.01);
B32B 3/30 (2013.01); **B32B 7/00** (2013.01); **B32B 7/04** (2013.01); **B32B 7/12** (2013.01); **B32B 29/00** (2013.01); **B32B 29/08** (2013.01);
D21H 27/40 (2013.01); **B32B 2307/50** (2013.01); **B32B 2307/546** (2013.01); **B32B 2307/558** (2013.01); **B32B 2307/732** (2013.01);
B32B 2439/00 (2013.01); **B32B 2553/00** (2013.01); **B32B 2553/02** (2013.01); **B32B 2554/00** (2013.01)

Citation (search report)

- [X] US 1863973 A 19320621 - ELLIS JR WILLIAM H
- [X] US 3290205 A 19661206 - ABRAHAM GOLDSTEIN, et al
- [A] US 2001001410 A1 20010524 - ISHIBUCHI HIROSHI [JP], et al
- See also references of WO 2014146036A1

Cited by

US11420417B2; US11420418B2; US10363717B2; US11001027B2; US11027515B2; US11458702B2; US11465386B2; US10800133B2;
US11465385B2; US10328654B2; US11027513B2; US11446893B2

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 2014146036 A1 20140918; AP 2015008799 A0 20151031; AU 2014232272 A1 20151015; AU 2014232272 B2 20160922;
BR 112015023678 A2 20170718; CA 2907431 A1 20140918; CA 2907431 C 20240206; CL 2015002782 A1 20160923;
CN 105121148 A 20151202; CN 109940940 A 20190628; EP 2969526 A1 20160120; EP 2969526 A4 20160831; HK 1212302 A1 20160610;
JP 2016519008 A 20160630; JP 6535320 B2 20190626; KR 20160008518 A 20160122; MX 2015013322 A 20170228; MY 179307 A 20201104;
PE 20151910 A1 20160123; PH 12015502380 A1 20160222; PH 12015502380 B1 20160222

DOCDB simple family (application)

US 2014030909 W 20140317; AP 2015008799 A 20140317; AU 2014232272 A 20140317; BR 112015023678 A 20140317;
CA 2907431 A 20140317; CL 2015002782 A 20150915; CN 201480016009 A 20140317; CN 201811379072 A 20140317;
EP 14762807 A 20140317; HK 16100321 A 20160113; JP 2016502586 A 20140317; KR 20157029627 A 20140317;
MX 2015013322 A 20140317; MY PI2015703701 A 20140317; PE 2015002032 A 20140317; PH 12015502380 A 20151014