Title (en)

IMPROVED COMPOSITE SYSTEM FOR PACKAGING

Title (de)

VERBESSERTES VERBUNDSYSTEM FÜR VERPACKUNGEN

Title (fr)

SYSTÈME COMPOSITE AMÉLIORÉ POUR EMBALLAGES

Publication

EP 2683549 A1 20140115 (DE)

Application

EP 12707988 A 20120308

Priority

- EP 11002043 A 20110311
- EP 2012001038 W 20120308
- EP 12707988 A 20120308

Abstract (en)

[origin: EP2497636A1] The composite system comprises a paper layer, barrier layers, and a sealing layer. A laminate includes a non-metal film. The barrier layer is applied to the paper layer, and the sealing layer is applied on a surface lying opposite to the barrier layer. The paper layer consists of a transparent paper. The barrier layer comprises a biodegradable material, a carrier layer and a vapor-deposited barrier material layer. The carrier layer consists of polylactic acid materials or cellophane. The barrier material layer consists of vapor-deposited semi-metal oxides. The composite system comprises a paper layer, barrier layers, and a sealing layer. A laminate includes a non-metal film. The barrier layer is applied to the paper layer, and the sealing layer is applied on a surface lying opposite to the barrier layer. The paper layer consists of a transparent paper. The barrier layer comprises a biodegradable material, a carrier layer and a vapor-deposited barrier material layer. The carrier layer consists of polylactic acid materials or cellophane. The barrier material layer consists of vapor-deposited semi-metal oxides. The paper layer has a thickness of 10-100 mu m. The sealing layer comprises the vapor-deposited barrier material layer. A layer enhancing an adhesion is provided between the paper layer and the barrier layer and/or between the barrier layer and the sealing layer. An independent claim is included for a food package.

IPC 8 full level

B32B 27/10 (2006.01); **C09J 7/21** (2018.01)

CPC (source: EP KR US)

B32B 27/10 (2013.01 - EP KR US); **B32B 29/002** (2013.01 - US); **B65D 65/46** (2013.01 - KR); **B65D 75/008** (2013.01 - US); **B65D 85/70** (2013.01 - US); **C09J 7/21** (2017.12 - EP US); **D21H 19/00** (2013.01 - US); **D21H 19/82** (2013.01 - US); Y10T 428/1324 (2015.01 - EP US); Y10T 428/266 (2015.01 - EP US); Y10T 428/2848 (2015.01 - EP US); Y10T 428/3179 (2015.04 - EP US); Y10T 428/31982 (2015.04 - EP US); Y10T 428/31993 (2015.04 - EP US)

Citation (search report)

See references of WO 2012123085A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2497636 A1 20120912; AP 2013007108 A0 20130930; AP 4070 A 20170316; AR 085638 A1 20131016; AU 2012228732 A1 20131024; AU 2012228732 B2 20150129; BR 112013023159 A2 20161213; CA 2827259 A1 20120920; CA 2827259 C 20160202; CL 2013002598 A1 20140124; CN 103429426 A 20131204; EC SP13012930 A 20131231; EP 2683549 A1 20140115; JP 2014509564 A 20140421; KR 101550874 B1 20150907; KR 20130133281 A 20131206; MA 35028 B1 20140403; MX 2013010382 A 20131007; MX 341027 B 20160803; NZ 614844 A 20141224; PE 20141443 A1 20141023; RU 2013138179 A 20150420; RU 2589439 C2 20160710; TW 201236935 A 20120916; UA 110638 C2 20160125; US 2014044901 A1 20140213; US 9359119 B2 20160607; WO 2012123085 A1 20120920; ZA 201306482 B 20150429

DOCDB simple family (application)

EP 11002043 A 20110311; AP 2013007108 A 20120308; AR P120100765 A 20120309; AU 2012228732 A 20120308; BR 112013023159 A 20120308; CA 2827259 A 20120308; CL 2013002598 A 20130910; CN 201280012917 A 20120308; EC SP13012930 A 20131008; EP 12707988 A 20120308; EP 2012001038 W 20120308; JP 2013557009 A 20120308; KR 20137026376 A 20120308; MA 36309 A 20131008; MX 2013010382 A 20120308; NZ 61484412 A 20120308; PE 2013002027 A 20120308; RU 2013138179 A 20120308; TW 101107948 A 20120308; UA A201311574 A 20120308; US 201214002127 A 20120308; ZA 201306482 A 20130828