

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

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Designated extension state (EPC)  
BA ME

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**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

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