

Title (en)  
PANELS INCLUDING RENEWABLE COMPONENTS AND METHODS FOR MANUFACTURING

Title (de)  
ERNEUERBARE KOMPONENTEN ENTHALTENDE PLATTEN UND HERSTELLUNGSVERFAHREN

Title (fr)  
PANNEAUX COMPRENANT DES COMPOSANTS RENOUVELABLES ET PROCÉDÉS DE FABRICATION

Publication  
**EP 2310588 A4 20141029 (EN)**

Application  
**EP 09732899 A 20090401**

Priority  
• US 2009039128 W 20090401  
• US 10607708 A 20080418  
• US 41431309 A 20090330

Abstract (en)  
[origin: WO2009129051A2] A panel includes about 0.1 % to about 95% by weight of a renewable component and has at least one of a CAC value of at least about 25, an NRC value of at least about 0.25 and an STC of at least about 25. In an embodiment, the panel has a core including 0.1 % to 95% by weight of the renewable component, 0.1 % to 95% by weight fibers, and 1 % to 30% by weight binders, all based on dry panel weight. The renewable component optionally has a particle size distribution whereby less than 5% of the particles are retained by a mesh screen with openings of 0.312 inches and less than 5% of the particles pass through a mesh screen with openings of 0.059 inches. A method for manufacturing such panels is also provided.

IPC 8 full level  
**E04B 1/86** (2006.01); **E04B 9/04** (2006.01); **E04B 1/74** (2006.01); **E04B 1/82** (2006.01)

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**C04B 28/26** (2013.01 - EP); **E04B 1/84** (2013.01 - KR); **E04B 1/86** (2013.01 - EP KR); **E04B 9/04** (2013.01 - EP); **E04C 2/02** (2013.01 - KR); **E04C 2/26** (2013.01 - KR); **C04B 2111/52** (2013.01 - EP); **E04B 2001/745** (2013.01 - EP); **E04B 2001/746** (2013.01 - EP); **E04B 2001/8245** (2013.01 - EP); **Y02A 30/244** (2017.12 - EP); **Y02W 30/91** (2015.05 - EP)

Citation (search report)  
• [X1] US 2007042658 A1 20070222 - CLINE ANTHONY J [US], et al  
• [A] US 5656129 A 19970812 - GOOD DAVID BENARD [US], et al  
• [A] DE 102004024251 A1 20051208 - INST GETREIDEVERARBEITUNG [DE]  
• See references of WO 2009129051A2

Citation (examination)  
EP 1158095 A2 20011128 - ARMSTRONG WORLD IND INC [US]

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**WO 2009129051 A2 20091022; WO 2009129051 A3 20091217**; BR PI0907357 A2 20151013; BR PI0907357 B1 20190409; CA 2721574 A1 20091022; CA 2721574 C 20180501; CN 102007255 A 20110406; CN 105178462 A 20151223; CO 6311022 A2 20110822; EP 2310588 A2 20110420; EP 2310588 A4 20141029; JP 2011518266 A 20110623; JP 5691097 B2 20150401; KR 101633779 B1 20160627; KR 20110021785 A 20110304; MX 2010011031 A 20101105; MY 157316 A 20160531; RU 2010143122 A 20120527; RU 2507349 C2 20140220; TW 201006992 A 20100216; TW I460339 B 20141111; ZA 201007103 B 20110727

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**US 2009039128 W 20090401**; BR PI0907357 A 20090401; CA 2721574 A 20090401; CN 200980113651 A 20090401; CN 201510532756 A 20090401; CO 10144677 A 20101118; EP 09732899 A 20090401; JP 2011505074 A 20090401; KR 20107025828 A 20090401; MX 2010011031 A 20090401; MY PI20104698 A 20090401; RU 2010143122 A 20090401; TW 98112160 A 20090413; ZA 201007103 A 20101006