

Title (en)  
PROCESS FOR PRODUCING CEMENTED AND SKINNED ACICULAR MULLITE HONEYCOMB STRUCTURES

Title (de)  
VERFAHREN ZUR HERSTELLUNG ZEMENTIERTER UND NADELFÖRMIGER MULLITWABENSTRUKTUREN MIT AUSSENWAND

Title (fr)  
PROCÉDÉ DE PRODUCTION DE STRUCTURES EN NID D'ABEILLE EN MULLITE ACICULAIRE CIMENTÉES ET MUNIES D'UNE PEAU

Publication  
**EP 2448884 A1 20120509 (EN)**

Application  
**EP 10731872 A 20100624**

Priority  
• US 2010039842 W 20100624  
• US 22142209 P 20090629

Abstract (en)  
[origin: WO2011008463A1] Cement compositions are used to form skins on ceramic honeycombs, or to cement smaller honeycombs to other honeycombs or other materials to form assemblies. The cement composition contains an inorganic filler, and either colloidal silica, colloidal alumina, or both. The inorganic filler and the colloidal materials individually or collectively supply silicon and aluminum atoms. The cement composition is fired in the presence of a fluorine source. A preferred fluorine source is residual fluorine that is contained in an acicular mullite honeycomb. Residual fluorine is released during the firing step, and facilitates the production of mullite in the cement composition as it is fired.

IPC 8 full level  
**C04B 41/85** (2006.01); **C04B 37/00** (2006.01); **C04B 38/00** (2006.01); **F01N 3/022** (2006.01)

CPC (source: EP KR US)  
**C04B 35/185** (2013.01 - EP US); **C04B 35/6263** (2013.01 - EP); **C04B 35/6303** (2013.01 - EP); **C04B 35/6316** (2013.01 - EP); **C04B 35/63488** (2013.01 - EP); **C04B 35/6365** (2013.01 - EP); **C04B 35/80** (2013.01 - EP US); **C04B 37/005** (2013.01 - EP); **C04B 38/0006** (2013.01 - EP KR); **C04B 38/0019** (2013.01 - EP); **C04B 41/009** (2013.01 - EP KR); **C04B 41/5037** (2013.01 - EP); **C04B 41/508** (2013.01 - EP KR US); **C04B 41/85** (2013.01 - EP KR); **C04B 2111/00793** (2013.01 - EP KR); **C04B 2235/3217** (2013.01 - EP); **C04B 2235/3418** (2013.01 - EP); **C04B 2235/445** (2013.01 - EP); **C04B 2235/5228** (2013.01 - EP); **C04B 2235/5232** (2013.01 - EP); **C04B 2235/724** (2013.01 - EP); **C04B 2235/80** (2013.01 - EP); **C04B 2237/062** (2013.01 - EP); **C04B 2237/064** (2013.01 - EP); **C04B 2237/341** (2013.01 - EP); **F01N 2330/06** (2013.01 - EP)

Citation (search report)  
See references of WO 2011008463A1

Designated contracting state (EPC)  
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