

Title (en)

GRANULAR FIBRE-FREE MICROPOROUS THERMAL INSULATION MATERIAL AND METHOD

Title (de)

FASERFREIES MIKROPORÖSES WÄRMEISOLATIONSMATERIALGRANULAT UND VERFAHREN

Title (fr)

MATERIAU D ISOLATION THERMIQUE MICROPOREUX EXEMPT DE FIBRE GRANULAIRE ET PROCEDE DE FABRICATION

Publication

EP 1858823 A1 20071128 (EN)

Application

EP 05808186 A 20051123

Priority

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- GB 0505270 A 20050315

Abstract (en)

[origin: WO2006097668A1] A granular fibre-free microporous thermal insulation material, having a thermal conductivity less than 0.05 W/mK and a shrinkage of not more than 10%, which is free flowing and consists of granules of an intimate mixture of: 30-95% dry weight microporous insulating material; 5-70% dry weight infrared opacifier material; 0-50% particulate insulating filler material; and 0-5% binder material. The material is made by mixing together the microporous insulating material and the infrared opacifier material to form an intimate aerated mixture with a first density; conveying the intimate mixture at a first volumetric flow rate to an extrusion means (5); extruding the intimate mixture as a compressed material with a second density greater than the first density at a second volumetric flow rate lower than the first volumetric flow rate; venting a proportion of air from the aerated intimate mixture through a porous membrane to relieve pressure generated within the intimate mixture due to the change from the first volumetric flow rate to the second volumetric flow rate; and granulating the compressed material.

IPC 8 full level

C04B 14/06 (2006.01); **C04B 14/18** (2006.01); **C04B 14/20** (2006.01); **C04B 30/00** (2006.01); **C04B 103/56** (2006.01)

CPC (source: EP KR US)

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Citation (search report)

See references of WO 2006097668A1

Citation (third parties)

Third party :

- EP 0658528 A1 19950621 - WACKER CHEMIE GMBH [DE]
- "Umschau/Current Events", WERKSTOFFE UND KORROSION, vol. 36, 1985, pages 469 - 471, XP003023615

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