

Title (en)  
SOUND ATTENUATION MATERIAL

Title (de)  
SCHALLABSCHWÄCHENDES BAUMATERIAL

Title (fr)  
MATÉRIAU SERVANT À L'INSONORISATION

Publication  
**EP 3309313 A1 20180418 (EN)**

Application  
**EP 17187078 A 20080925**

Priority  

- US 7795108 A 20080321
- EP 08873511 A 20080925
- US 2008077757 W 20080925
- US 8194908 P 20080718
- US 8195308 P 20080718

Abstract (en)  
A building material configured to enhance sound attenuation and reduction in dB across a walled partition, the building material comprising a facing membrane, a core matrix disposed about the facing membrane, the core matrix comprising a plurality of microparticles and a binder solution configured to support the microparticles, the building material comprising at least a substantially exposed face, wherein a side of the core matrix is at least partially exposed to increase sound attenuation by reducing reflections from sound waves impinging on the building material as compared to a control building material lacking an exposed face. Two building materials may be used in conjunction with one another about a building structure, such as a stud wall, to create and define a sound trap that functions to reduce sound transmission across the partition formed by the stud wall and building materials.

IPC 8 full level  
**E04B 1/86** (2006.01)

CPC (source: EP)  
**E04B 1/86** (2013.01); **E04C 2/049** (2013.01); **E04C 2/26** (2013.01); **E04B 2/7409** (2013.01); **E04B 2001/8419** (2013.01); **E04B 2001/8461** (2013.01)

Citation (search report)  

- [X1] EP 0056267 A2 19820721 - SCHMITTMANN HANS BERND [DE], et al
- [X1] DE 19839973 A1 20000323 - FRAUNHOFER GES FORSCHUNG [DE]
- [I] US 5600930 A 19970211 - DRUCKER ERNEST R [CA]
- [X1] GB 2375358 A 20021113 - SOUND REDUCTION SYSTEMS LTD [GB]

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2009117019 A1 20090924**; CA 2719087 A1 20090924; CN 102046895 A 20110504; CN 102046895 B 20120704; CN 102767245 A 20121107; CN 102767245 B 20141126; EP 2262959 A1 20101222; EP 2262959 A4 20140730; EP 2262959 B1 20170823; EP 3309313 A1 20180418; EP 3309313 B1 20240403; MX 2010010289 A 20101105; MX 358300 B 20180814

DOCDB simple family (application)  
**US 2008077757 W 20080925**; CA 2719087 A 20080925; CN 200880129305 A 20080925; CN 201210154074 A 20080925; EP 08873511 A 20080925; EP 17187078 A 20080925; MX 2010010289 A 20080925; MX 2013013476 A 20080925