

Title (en)  
CELLULAR MATRIX WITH INTEGRATED RADIANT AND/OR CONVECTION BARRIERS PARTICULARLY FOR USE WITH INFLATABLE BODIES

Title (de)  
ZELLULARMATRIX MIT INTEGRIERTEN STRAHLUNGS-UND/ODER KONVEKTIONSSPERREN, BESONDERS FÜR DEN EINSATZ BEI AUFBLASBAREN KÖRPERN

Title (fr)  
MATRICE CELLULAIRE AVEC DES BARRIÈRES RADIANTES ET/OU DE CONVECTION INTÉGRÉES PARTICULIÈREMENT POUR UNE UTILISATION AVEC DES CORPS GONFLABLES

Publication  
**EP 2249684 B1 20131106 (EN)**

Application  
**EP 09704123 A 20090122**

Priority  
• US 2009000474 W 20090122  
• US 1194808 P 20080122

Abstract (en)  
[origin: WO2009094208A2] Cellular matrices generally having a plurality of generally identical cells (open- ended geometric prisms) arranged to form a repeating geometric form, and characterized by radiant and/or convection barriers at each cell to mitigate undesired thermal transmission in a plurality of directions there through. Barriers of various embodiments include non-film sheet material, such as non-woven (e.g., spun) or batting-type sheet material as well as a foam sheet material, which may be substituted for some or all of the film material otherwise comprising the matrix, and/or integration of a thermally reflective film or coating into the matrix and/or enveloping panels of an inflatable body to provide enhanced thermal radiation mitigation means. When used in conjunction with inflatable bodies, axes of the cells are oriented parallel to exteriorly exposed panels that define the chamber of the inflatable body in which the matrix is disposed, and in certain embodiments the panels defining the chamber also comprise portions of the matrix.

IPC 8 full level  
**A47C 27/08** (2006.01); **B60C 29/00** (2006.01); **B68G 7/06** (2006.01)

CPC (source: EP)  
**A47C 27/087** (2013.01); **A47C 27/088** (2013.01); **A47C 27/10** (2013.01)

Cited by  
US11759718B2

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 MK MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2009094208 A2 20090730; WO 2009094208 A3 20091126**; AU 2009206691 A1 20090730; CA 2712759 A1 20090730; CA 2712759 C 20161122; CN 101969819 A 20110209; CN 101969819 B 20150603; EP 2249684 A2 20101117; EP 2249684 A4 20121017; EP 2249684 B1 20131106; HK 1150945 A1 20120120; JP 2011509808 A 20110331; JP 5551615 B2 20140716; RU 2010134803 A 20120227

DOCDB simple family (application)  
**US 2009000474 W 20090122**; AU 2009206691 A 20090122; CA 2712759 A 20090122; CN 200980109138 A 20090122; EP 09704123 A 20090122; HK 11105115 A 20110523; JP 2010544353 A 20090122; RU 2010134803 A 20090122