Title (en)

CELLULAR MATRIX WITH INTEGRATED RADIANT AND/OR CONVECTION BARRIERS PARTICULARLY FOR USE WITH INFLATABEL 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 A2 20101117 (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

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CPC (source: EP)

A47C 27/087 (2013.01); **A47C 27/088** (2013.01); **A47C 27/10** (2013.01)

Cited by

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Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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