

Title (en)  
THIN INSULATIVE MATERIAL WITH GAS-FILLED CELLULAR STRUCTURE

Title (de)  
DÜNNES ISOLIERMATERIAL MIT GASGEFÜLLTER ZELLSTRUKTUR

Title (fr)  
MATÉRIAU D'ISOLATION MINCE POSSÉDANT UNE STRUCTURE CELLULAIRE REMPLIE DE GAZ

Publication  
**EP 2136989 A4 20160120 (EN)**

Application  
**EP 08744895 A 20080402**

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- US 3875208 P 20080322

Abstract (en)  
[origin: WO2008124414A1] The present invention is directed to a lightweight, gas-filled, highly insulative cellular structure and methods for manufacturing the cellular structure. The cellular structure can be incorporated into outdoor gear and apparel to make the outdoor gear or apparel warm, while still maintaining a desired thinness and flexibility. The insulative article takes advantage of the superior insulative properties of dry gases and preferably highly insulative gasses such as argon. In addition, the size and shape of the cells in the cellular structure are selected to minimize convection.

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Citation (search report)  

- [Y] US 4547906 A 19851022 - NISHIDA TAKESHI [JP], et al
- [Y] US 4808457 A 19890228 - KRUCK RICHARD W [US], et al
- [A] US 4242769 A 19810106 - RAYFIELD JOHN F, et al
- [A] WO 9302853 A1 19930218 - UNIV CALIFORNIA [US]
- See references of WO 2008124414A1

Designated contracting state (EPC)  
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