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(71) Applicant: **ASPEN AEROGELS, INC.** [US/US]; 30
Forbes Road, Building B, Northborough, Massachusetts
01532 (US).

(72) Inventors: **WILLIAMS, John**; 143 Lowell Road, Groton,
Massachusetts 01450 (US). **EVANS, Owen**; 2 Sonora Drive,
Chelmsford, Massachusetts 01824 (US). **BAUR, David**;
17 Voyagers Lane, Ashland, Massachusetts 01721 (US).
GOULD, George; 174 Millville Road, Mendon, Massachu-
setts 01756 (US). **DEKRAFFT, Kathryn**; 47 Lake Street,
Hudson, Massachusetts 01749 (US). **MIHALCIK, David**;
114 Brigham Street, Northborough, Massachusetts 01532
(US).

(74) Agent: **ARORA, Suneel** et al.; Schwegman Lundberg &
Woessner, P.A., P.O. Box 2938, Minneapolis, Minnesota
55402 (US).

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(54) Title: MATERIALS, SYSTEMS, AND METHODS FOR MITIGATION OF ELECTRICAL ENERGY STORAGE THERMAL EVENTS

(57) Abstract: The present disclosure relates to materials and systems to manage thermal runaway issues in energy storage systems. Exemplary embodiments include a thermal barrier material that includes multiple layers. The multilayer thermal barrier material includes at least one insulation layer, at least one compressible pad, and optional one or more layers that have favorable heat-dissipating properties, have favorable fire, flame and/or abrasion-resistance properties, have favorable performance for use as thermal barriers. The present disclosure further relates to a battery module or pack with one or more battery cells and the multilayer thermal barrier material placed in thermal communication with the battery cell.



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