

Title (en)

LOW RESISTANCE ELECTRICAL & THERMAL BOND AND METHOD OF MAKING SAME

Title (de)

VERFAHREN ZUM HERSTELLEN VON THERMETISCHEN UND NIERDEROHMIGEN ELEKTRISCHEN VERBINDUNGEN

Title (fr)

LIAISON THERMIQUE ET ELECTRIQUE DE FAIBLE RESISTANCE ET SON PROCEDE DE FABRICATION

Publication

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Application

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- US 17821700 P 20000126
- US 17817700 P 20000126

Abstract (en)

[origin: WO0156100A1] The present invention provides a carbon material for use in a dual graphite battery. The carbon material includes a carbonaceous material having a Young's modulus of greater than 75MSI. Also provided by the present invention is a conductive carbon material for use in an energy storage system, wherein the carbon material includes a carbonaceous material selected from the group consisting essentially of a single conductive fiber, a multiplicity of conductive fibers, conductive fibers formed into a cloth, a carbon foam and a carbon mat in which the fibers are thermally fused together. Included in the invention is a carbon material or fiber having a crystallite surface calculated by $1/[(Lc/d002)+1]$ of less than or equal to 0.025 for anion intercalation, and a method for making stabilized unidirectional cloth by affixing a webbing to a carbonaceous material.

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Citation (search report)

- [XA] US 4439281 A 19840327 - SCHNEIDER CLAUS [DE], et al
- [X] US 4497882 A 19850205 - MIKKOR MATI [US]
- [X] US 4343982 A 19820810 - SCHWARTZ STEPHAN, et al
- [XY] US 4631118 A 19861223 - MCCULLOUGH FRANCIS P [US], et al
- [X] US 4194107 A 19800318 - KLASSON GEORGE A [US]
- [X] JP S6236077 A 19870217 - NISSAN MOTOR
- [XY] US 5740955 A 19980421 - KNERINGER GUENTER [AT], et al
- [X] US 5340658 A 19940823 - KOMATSU TADAO [JP], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 0131, no. 56 (C - 585) 14 April 1989 (1989-04-14)
- See references of WO 0154856A1

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