

Title (en)
COMPOSITE MATERIAL SPRING MODULES FOR CUSHIONS

Title (de)
FEDERUNGSMODUL AUS COMPOSITMATERIAL FÜR KISSEN

Title (fr)
MODULES A RESSORTS EN MATERIAU COMPOSITE POUR MATELAS

Publication
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Application
EP 01952969 A 20010703

Priority

- US 0141244 W 20010703
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Abstract (en)
[origin: WO0204838A1] Composite material spring modules (16) have a fiber reinforced composite material spring body with attachment fittings (34, 36) integrally formed about the spring body. The attachment fittings are molded of a flexible material which dynamically responds to changes in the shape of the spring body upon deflection. Integral formation of the fittings with the spring body provides a unified single piece module which is readily attachable to any structure where spring support is desired. In one embodiment, a mounting foot (37) is configured for mounting of the spring module directly to a planar surface of a supporting frame member by a fastener, or alternatively configured to engage with a frame member without use of a fastener. The composite material spring modules exhibit the properties of stiffness and return to uncompressed state from total depth deflection without set.

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CPC (source: EP)
A47C 23/02 (2013.01); **F16F 1/02** (2013.01); **F16F 2230/0047** (2013.01)

Citation (search report)

- No further relevant documents disclosed
- See references of WO 0204838A1

Cited by
US11051631B2; US11076705B2; US12048380B2; US11033114B2

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