

Title (en)

CARBONACEOUS FIBERS WITH SPRING-LIKE REVERSIBLE DEFLECTION AND METHOD OF MANUFACTURE

Publication

**EP 0199567 A3 19880113 (EN)**

Application

**EP 86302959 A 19860418**

Priority

- US 72444085 A 19850418
- US 82756786 A 19860210

Abstract (en)

[origin: EP0199567A2] A unique partially carbonized or substantially completely carbonized, resilient, fiber, yarn or fiber tow having a spring-like structural configuration and a reversible deflection of greater than 1.2:1 is prepared from a carbonaceous precursor materials which is stabilized and then heat treated to a temperature sufficient to impart a spring-like structural configuration to the fiber. Such fibers, yarn or fiber tow is optionally knitted or woven into a cloth which can then be deknitted and carded, garnetted or otherwise defibrillated to produce a resilient web-like fluff or wool-like material having the spring-like structural configuration. Electrical conductivity and a fused benzoidal structural configuration to the surface of the fiber, can optionally be obtained by carbonization of the fibers at a temperature of up to 3000 DEG C at any stage after the spring-like structural configuration is set in the fiber.

IPC 1-7

**D01F 9/22**; **D01F 9/14**; **D01F 9/20**

IPC 8 full level

**D01F 9/12** (2006.01); **D01F 9/14** (2006.01); **D01F 9/145** (2006.01); **D01F 9/15** (2006.01); **D01F 9/155** (2006.01); **D01F 9/20** (2006.01); **D01F 9/21** (2006.01); **D01F 9/22** (2006.01); **D01F 9/24** (2006.01); **D01F 11/16** (2006.01); **D02G 1/00** (2006.01); **D02J 13/00** (2006.01); **D04H 1/4242** (2012.01)

IPC 8 main group level

**D01F** (2006.01)

CPC (source: EP KR)

**D01F 9/12** (2013.01 - KR); **D01F 9/145** (2013.01 - EP); **D01F 9/15** (2013.01 - EP); **D01F 9/155** (2013.01 - EP); **D01F 9/21** (2013.01 - EP); **D01F 9/22** (2013.01 - EP); **D01F 9/24** (2013.01 - EP)

Citation (search report)

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