

Title (en)
METAL-LOADED CARBON FIBRES

Publication
EP 0378381 A3 19911002 (EN)

Application
EP 90300269 A 19900110

Priority
US 29569689 A 19890111

Abstract (en)
[origin: EP0378381A2] Disclosed is an improved metal loaded carbon fiber and a process for its production. Incorporated within the fiber is a combination of a boron compound and a heavy metal salt wherein the heavy metal is selected from the elements contained in Groups IVB, VB and VIB of the Periodic Table. These composite metal loaded carbon fibers show high thermal oxidation resistance and low degradation when compared to prior art carbon fibers. They have great utility in the aircraft and space technology because of their high oxidation resistance and their ability to retain structure at high temperature over extended periods of time.

IPC 1-7
D01F 9/22; **D01F 11/12**

IPC 8 full level
D01F 9/16 (2006.01); **D01F 9/21** (2006.01); **D01F 9/22** (2006.01); **D01F 11/12** (2006.01)

CPC (source: EP)
D01F 9/22 (2013.01); **D01F 11/12** (2013.01); **D01F 11/124** (2013.01)

Citation (search report)
• [XD] US 3803056 A 19740409 - HART M
• [Y] US 3997638 A 19761214 - MANNING ANDREW J, et al

Cited by
US5688594A; US5792555A; EP1375707A1; CN108431310A; EP0717133A2; US6820406B2; US7708805B2; WO2017117544A1; US6833399B2; US10407802B2; US10961642B2

Designated contracting state (EPC)
BE DE FR GB IT NL

DOCDB simple family (publication)
EP 0378381 A2 19900718; **EP 0378381 A3 19911002**; CA 2007067 A1 19900711; JP H02242920 A 19900927

DOCDB simple family (application)
EP 90300269 A 19900110; CA 2007067 A 19900103; JP 441190 A 19900111