

Title (en)

NOVEL LINEAR METALLOCENE POLYMERS CONTAINING ACETYLENIC AND INORGANIC UNITS AND THERMOSETS AND CERAMICS THEREFROM

Title (de)

NEUE LINEAR METALLOCENEPOLYMER MIT ACETYLEN UND ORGANISCHEN EINHEITEN UND DAVON DUROPLASTEN UND KERAMISCHE MATERIALEN

Title (fr)

NOUVEAUX POLYMERES LINEAIRES DE METALLOCENES CONTENANT DES MOTIFS ACETYLENIQUES ET INORGANIQUES, ET MATIERES THERMODURCIES ET CERAMIQUES A BASE DE TELS POLYMERES

Publication

EP 0968249 A1 20000105 (EN)

Application

EP 98910342 A 19980313

Priority

- US 9804855 W 19980313
- US 81868697 A 19970314
- US 81819397 A 19970314
- US 81501397 A 19970314

Abstract (en)

[origin: WO9841548A1] Thermally stable thermosets are formed from novel linear polymer containing acetylenic units and a random distribution of organotransition metal complexes, siloxane, boron, and/or carborane-siloxane units formed by crosslinking of the linear copolymers through the acetylene units in the polymer backbone. The thermosets can be used as structural components in high temperature and oxidizing environments or as pyrolytic precursors to metal containing ceramics, ceramic films and fibers having enhanced strength and toughness with superior mechanical, optical, electrical and/or magnetic properties.

IPC 1-7

C08L 79/08; **C08G 77/398**; **C04B 35/524**

IPC 8 full level

C04B 35/52 (2006.01); **C04B 35/571** (2006.01); **C08G 77/398** (2006.01); **C08G 77/56** (2006.01); **C08G 77/58** (2006.01); **C08G 81/02** (2006.01)

CPC (source: EP KR)

C04B 35/571 (2013.01 - EP KR); **C08G 77/56** (2013.01 - EP); **C08G 77/58** (2013.01 - EP KR); **C08K 7/02** (2013.01 - KR)

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

WO 9841548 A1 19980924; CA 2283505 A1 19980924; CA 2283505 C 20080311; EP 0968249 A1 20000105; EP 0968249 A4 20010905; JP 2001514683 A 20010911; JP 4441770 B2 20100331; KR 100547633 B1 20060201; KR 20000076274 A 20001226

DOCDB simple family (application)

US 9804855 W 19980313; CA 2283505 A 19980313; EP 98910342 A 19980313; JP 53895198 A 19980313; KR 19997008370 A 19990914