

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  
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Application  
**EP 98910342 A 19980313**

Priority  

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- 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.

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IPC 8 full level  
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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)

Citation (search report)  

- [A] US 4361679 A 19821130 - YAJIMA SEISHI, et al
- [A] US 5292779 A 19940308 - KELLER TEDDY M [US], et al
- [A] US 5348917 A 19940920 - KELLER TEDDY M [US], et al
- [A] US 5457074 A 19951010 - BARTON THOMAS J [US], et al
- See references of WO 9841548A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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**US 9804855 W 19980313**; CA 2283505 A 19980313; EP 98910342 A 19980313; JP 53895198 A 19980313; KR 19997008370 A 19990914