

Title (en)
LINEAR CHEMOSELECTIVE CARBOSILANE POLYMERS AND METHODS FOR USE IN ANALYTICAL AND PURIFICATION APPLICATIONS

Title (de)
LINEARE CHEMOSELEKTIVE CARBOSILANPOLYMERE SOWIE VERFAHREN ZUR VERWENDUNG BEI ANALYSE- UND REINIGUNGSANWENDUNGEN

Title (fr)
POLYMERES DE CARBOSILANE LINEAIRES ET CHIMIOSELECTIFS ET LEURS PROCEDES D'UTILISATION DANS DES APPLICATIONS ANALYTIQUES ET PURIFICATRICES

Publication
EP 1706738 A4 20071010 (EN)

Application
EP 04821584 A 20040729

Priority
• US 2004026282 W 20040729
• US 68331603 A 20031010

Abstract (en)
[origin: WO2005084165A2] Linear polycarbosilane compounds for use in analytical applications involving sorbent polymer materials, including chromatography, chemical trapping, analyte collections, and chemical sensor applications. These polymers have pendant and terminal aryl, alkyl, alkenyl, and alkynyl groups that are functionalized with halogen substituted alcohol or phenol groups, having the general structure: wherein n is an integer greater than 1; at least one R<1> and R<2> is a linear or branched arm having at least one group independently selected from alkyl, alkenyl, alkynyl, and aryl groups, and having at least one halogen substituted alcohol or phenol groups attached thereto; X is a polymer component comprising alkylene, alkenylene, alkynylene, or arylene groups; and Z<1> and Z<2> are end groups independently selected from alkyl, alkenyl, alkynyl, aryl, alkyl silanes, aryl silanes, hydroxyl, silicon hydride, alkoxides, phenols, halogen substituted alcohols, halogen substituted phenols, and organosilyl.

IPC 8 full level
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CPC (source: EP)
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• [A] US 2003168355 A1 20030911 - HOUSER ERIC J [US], et al
• [A] US 2002026026 A1 20020228 - MCGILL ROBERT ANDREW [US], et al
• [A] US 2003135005 A1 20030717 - HOUSER ERIC [US], et al
• See references of WO 2005084165A2

Designated contracting state (EPC)
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