

Title (en)
CYCLODEXTRIN POLYMER SEPARATION MATERIALS

Title (de)
TRENNMATERIAL AUS CYCLODEXTRINPOLYMER

Title (fr)
MATIERES DE SEPARATION EN POLYMERES DE CYCLODEXTRINE

Publication
EP 0939667 A4 20010613 (EN)

Application
EP 97949656 A 19971121

Priority
• US 9721784 W 19971121
• US 3164596 P 19961122

Abstract (en)
[origin: WO9822197A1] A water insoluble polymeric composition which is a reaction product of a cyclodextrin monomer and a polyfunctional crosslinker from the group of polyisocyanates, dihalohydrocarbons, and dihaloacetylhydrocarbons is disclosed together with a process for removing a target organic compound from an aqueous composition including contacting the aqueous composition containing a target organic compound with a water insoluble cyclodextrin polymer which is the reaction product of a cyclodextrin monomer and a polyfunctional crosslinker from the group of polyisocyanates, dihalohydrocarbons, and dihaloacetylhydrocarbons for time sufficient to form a reaction product between the water insoluble cyclodextrin polymer and the target organic compound whereby the concentration of the target organic compound in the aqueous composition is reduced. Organic chromophores added to the water insoluble cyclodextrin polymers can provide organic nonlinear optical materials.

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B01D 24/00 (2006.01); **C02F 1/28** (2006.01); **C08B 37/16** (2006.01); **C08G 18/30** (2006.01); **C08G 18/64** (2006.01)

CPC (source: EP KR)
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Citation (search report)
• [X] US 4958015 A 19900918 - ZEMEL HAYA [US], et al
• [Y] DE 3710569 A1 19880519 - AGENCY IND SCIENCE TECHN [JP]
• [A] US 4169079 A 19790925 - TABUSHI IWAO, et al
• [Y] CHEMICAL ABSTRACTS, vol. 112, no. 24, 11 June 1990, Columbus, Ohio, US; abstract no. 219101, XP002165215 & E. FENYVESI ET AL.: "Complexes of insoluble cyclodextrin polymers", 4TH PROC. INT. SYMP. CYCLODEXTRINS, 1988, pages 227 - 235
• See references of WO 9822197A1

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