

Title (en)

LIVING RADICAL POLYMERIZATION INITIATOR COMPRISING A FUNCTIONAL GROUP CAPABLE OF REACTING WITH POLYPEPTIDES OR THE LIKE, COMB POLYMER OBTAINED THEREWITH, POLYPEPTIDE CONJUGATES AND DRUGS OBTAINED THEREFROM.

Title (de)

INITIATOR FÜR DIE LEBENDE RADIKALISCHE POLYMERISATION MIT EINER ZUR REAKTION MIT POLYPEPTIDEN ODER DERGLEICHEN BEFÄHIGTEN FUNKTIONELLEN GRUPPE, DAMIT ERHALTENES KAMMPOLYMER, POLYPEPTIDKONJUGATE UND DARAUS ERHALTENE ARZNEISTOFFE

Title (fr)

INITIATEUR DE POLYMERISATION DE RADICAUX VIVANTS COMPRENANT UN GROUPE FONCTIONNEL CAPABLE DE REAGIR AVEC DES POLYPEPTIDES OU ANALOGUES, POLYMER EN PEIGNE OBTENU AVEC CET INITIATEUR, CONJUGUES POLYPEPTIDIQUES ET MEDICAMENTS OBTENUS A BASE DE CET INITIATEUR

Publication

**EP 1784430 A1 20070516 (EN)**

Application

**EP 04743240 A 20040706**

Priority

GB 2004002894 W 20040706

Abstract (en)

[origin: WO2006003352A1] The application provides a method of producing a comb polymer comprising the steps of: (a) Providing: (i) a plurality of monomers which are linear, branched or star-shaped, substituted or non-substituted, and have an olefinically unsaturated moiety, the olefinically unsaturated moiety being capable of undergoing addition polymerisation; (ii) an initiator compound; the initiator compound comprising a homolytically cleavable bond. (iii) a catalyst capable of catalysing the polymerisation of the monomer; and (b) Causing the catalyst to catalyse, in combination with the initiator, the polymerisation of a plurality of the monomers to produce the comb polymer. Catalysts and polymers obtainable by the process are also provided. Preferably, the comb polymer is capable of binding proteins and may be produced from monomers which are alkoxy polyethers, such as poly(alkyleneglycol) or polytetrahydrofuran.

IPC 8 full level

**C08F 2/38** (2006.01); **A61K 47/48** (2006.01); **C08F 290/06** (2006.01); **C08F 293/00** (2006.01); **C08F 299/02** (2006.01)

CPC (source: EP)

**C08F 290/062** (2013.01); **C08F 293/005** (2013.01); **C08F 299/022** (2013.01); **C08F 2438/01** (2013.01)

Citation (search report)

See references of WO 2006003352A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2006003352 A1 20060112**; CA 2558767 A1 20060112; EP 1784430 A1 20070516; JP 2008505999 A 20080228; JP 5017107 B2 20120905

DOCDB simple family (application)

**GB 2004002894 W 20040706**; CA 2558767 A 20040706; EP 04743240 A 20040706; JP 2007519858 A 20040706