

Title (en)  
NOVEL CASCADE POLYMER COMPLEXES, METHOD FOR THEIR PRODUCTION AND PHARMACEUTICAL AGENTS CONTAINING THE SAME

Title (de)  
NEUE KASKADEN-POLYMER-KOMPLEXE, VERFAHREN ZU IHRER HERSTELLUNG UND DIESE ENTHALTENDE PHARMAZEUTISCHE MITTEL

Title (fr)  
NOUVEAUX COMPLEXES DE POLYMÈRES EN CASCADE, PROCÉDÉS DE FABRICATION ET AGENTS PHARMACEUTIQUES CONTENANT CES COMPLEXES

Publication  
**EP 2111236 A2 20091028 (DE)**

Application  
**EP 08701131 A 20080116**

Priority  
• EP 2008000285 W 20080116  
• DE 102007002726 A 20070118

Abstract (en)  
[origin: WO2008087017A2] The invention relates to novel cascade polymer complexes, to agents containing said compounds, to the use of said complexes in NMR diagnostics and to methods for producing said compounds and agents. The complex forming cascade polymer complexes according to the invention can be described by the following general formula (I):  $R - L - A - \{ X - [ Y - ( Z - \{ W - K_{\text{SUB}w} \}_{\text{SUB}z} \text{SUB}y} ]_{\text{SUB}x} \}_{\text{SUB}a-1}$ , in which R represents an HSA binding unit, L represents a linker or a bond, A represents a cascade core of base multiplicity a containing nitrogen, X and Y independently of one another represent a direct bond or a cascade reproduction unit of reproduction multiplicity x or y, Z and W independently of one another represent a direct bond or a cascade reproduction unit of reproduction multiplicity z or w, K represents the group of a complex former, a represents the numbers 2 to 12, and x, y, z and w represent independently of one another the numbers 1 to 4, with the proviso that exactly one multiplicity of base multiplicity a of the cascade core A represents exactly one bond site to L and with the proviso that the cascade polymer complexes in the complex former groups K contain in total at least 4 ions of an element of the atomic number 20 to 29, 39, 42 to 44 or 57 to 83 and optionally comprise cations of inorganic and/or organic bases, amino acids or amino acid amides.

IPC 8 full level  
**A61K 49/12** (2006.01); **A61K 47/48** (2006.01)

CPC (source: EP KR US)  
**A61K 49/06** (2013.01 - KR); **A61K 49/085** (2013.01 - EP US); **A61K 49/124** (2013.01 - EP US); **C07F 5/00** (2013.01 - KR); **C08G 73/02** (2013.01 - KR)

Citation (search report)  
See references of WO 2008087017A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2008087017 A2 20080724; WO 2008087017 A3 20090122**; CA 2676313 A1 20080724; CN 101657219 A 20100224; DE 102007002726 A1 20080731; EP 2111236 A2 20091028; JP 2010516643 A 20100520; KR 20090110838 A 20091022; US 2008213187 A1 20080904

DOCDB simple family (application)  
**EP 2008000285 W 20080116**; CA 2676313 A 20080116; CN 200880002489 A 20080116; DE 102007002726 A 20070118; EP 08701131 A 20080116; JP 2009545868 A 20080116; KR 20097015081 A 20080116; US 1576908 A 20080117