Title (en)

MOLECULAR COMPOUNDS HAVING COMPLEMENTARY SURFACES TO TARGETS

Title (de)

MOLEKULARVERBINDUNGEN MIT KOMPLEMENTÄREN OBERFLÄCHEN ZU TARGETS

Title (fr)

COMPOSES MOLECULAIRES PRESENTANT DES SURFACES COMPLEMENTAIRES A DES CIBLES ET LEURS METHODES DE SYNTHESE ET D'UTILISATION

Publication

EP 1025066 A2 20000809 (EN)

Application

EP 98957326 A 19981014

Priority

- US 9821804 W 19981014
- US 6180597 P 19971014
- US 17292198 A 19981009

Abstract (en)

[origin: WO9919276A2] Synthetic polymer complements (SPCs) are provided, as well as methods for their synthesis and use. The SPCs may have surfaces that include functional groups that are complementary to surface sites of targets such as nanostructures or macromolecular targets, and may be capable of specifically interacting with such targets. The positions of the functional groups in one embodiment are stabilized by a polymer network. The SPCs are formed by contacting the target with a set of monomers which self-assemble on the target, and then are polymerized into a network to form the synthetic polymer complement. At least a portion of the surface of the resulting SPC thus may include an imprint of the target. The complex of the SPC and the target may be the desired product. Alternatively, the target is released, for example, by controllably expanding and contracting the cross-linked network. The SPC is isolated and used in many applications.

IPC 1-7

C07B 61/00

IPC 8 full level

C08B 37/02 (2006.01); **C08G 83/00** (2006.01); **G01N 33/531** (2006.01); **G01N 33/68** (2006.01)

CPC (source: EP)

C08B 37/0021 (2013.01); **C08G 83/00** (2013.01); **G01N 33/531** (2013.01); **G01N 33/68** (2013.01); G01N 2333/976 (2013.01); G01N 2400/22 (2013.01); G01N 2600/00 (2013.01)

Citation (search report)

See references of WO 9919276A2

Designated contracting state (EPC)

BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)

WO 9919276 A2 19990422; **WO 9919276 A3 19990819**; AU 1361099 A 19990503; EP 1025066 A2 20000809

DOCDB simple family (application)

US 9821804 W 19981014; AU 1361099 A 19981014; EP 98957326 A 19981014