

Title (en)  
FUNCTIONALIZED MATERIALS AND LIBRARIES THEREOF

Title (de)  
FUNKTIONALISIERTE MATERIALIEN UND BIBLIOTHEKEN DAVON

Title (fr)  
SUBSTANCES FONCTIONNALISEES ET BANQUES CORRESPONDANTES

Publication  
**EP 1463480 A4 20080827 (EN)**

Application  
**EP 02795546 A 20021023**

Priority

- US 0233942 W 20021023
- US 33994901 P 20011210
- US 33995101 P 20011210
- US 34753502 P 20020111
- US 34754202 P 20020111
- US 34754702 P 20020111
- US 34760202 P 20020111
- US 12629702 A 20020419
- US 41165902 P 20020918

Abstract (en)

[origin: WO03049671A2] Compositions are provided herein comprising a material having engrafted polymer brushes. The polymer brushes further comprise one or more functional groups immobilized along the surface of the brushes in a plurality of layers, which confer functional properties to the material compositions. These materials are useful in material libraries for high throughput separation studies, and for the isolation or transfection of microorganisms and cells.

[origin: WO03049671A2] Compositions are provided herein comprising a material having engrafted polymer brushes. The polymer brushes further comprise one or more functional groups immobilized along the surface of the brushes in a plurality of layers, which confer functional properties to the material compositions. These materials are useful in material libraries for high throughput separation studies, and for the isolation or transfection of microorganisms and cells.

IPC 1-7  
**C08G 63/48; C08G 63/91; C08L 89/00**

IPC 8 full level  
**G01N 21/78** (2006.01); **B01D 61/44** (2006.01); **B01D 67/00** (2006.01); **B01D 71/26** (2006.01); **B01D 71/82** (2006.01); **B01J 20/26** (2006.01); **B01J 20/32** (2006.01); **C07H 21/00** (2006.01); **C12M 1/00** (2006.01); **C12M 1/34** (2006.01); **C12N 15/09** (2006.01); **G01N 33/543** (2006.01); **G01N 33/545** (2006.01)

CPC (source: EP US)  
**B01D 61/445** (2013.01 - EP); **B01D 67/0093** (2013.01 - EP); **B01D 67/00931** (2022.08 - US); **B01D 71/26** (2013.01 - EP); **B01D 71/261** (2022.08 - US); **B01D 71/262** (2022.08 - US); **B01D 71/82** (2013.01 - EP); **B01J 20/26** (2013.01 - EP); **B01J 20/265** (2013.01 - EP); **B01J 20/3204** (2013.01 - EP); **B01J 20/321** (2013.01 - EP); **B01J 20/3212** (2013.01 - EP); **B01J 20/3219** (2013.01 - EP); **B01J 20/3248** (2013.01 - EP); **B01J 20/3251** (2013.01 - EP); **B01J 20/3255** (2013.01 - EP); **B01J 20/3268** (2013.01 - EP); **B01J 20/327** (2013.01 - EP); **B01J 20/3274** (2013.01 - EP); **B01J 20/3276** (2013.01 - EP); **B01J 20/3278** (2013.01 - EP); **B01J 20/3282** (2013.01 - EP); **B01J 20/3285** (2013.01 - EP); **B01J 20/3289** (2013.01 - EP); **C07H 21/00** (2013.01 - EP); **G01N 33/54366** (2013.01 - EP); **G01N 33/545** (2013.01 - EP); **B01D 2323/38** (2013.01 - EP); **B01D 2323/385** (2013.01 - EP); **B01D 2325/48** (2013.01 - EP)

Citation (search report)

- [A] WO 0043539 A2 20000727 - BIOCHIP TECHNOLOGIES GMBH [DE], et al
- [AD] US 2001034055 A1 20011025 - LEE WILLIAM [US], et al
- [X] US 5397445 A 19950314 - UMEMURA KAZUO [JP], et al
- [A] US 5645703 A 19970708 - TSAI SHIH-PERNG [US]
- [E] WO 02085519 A2 20021031 - EMEMBRANE INC [US], et al
- [XD] TSUNEDA ET AL.: "Novel ion-exchange membranes for electrodialysis prepared by radiation-induced graft polymerization", J. ELECTROCHEM. SOC., vol. 142, no. 11, 1995, pages 3659 - 3663, XP002456472
- [AD] YOKOYAMA ET AL.: "Preparation of a single bipolar membrane by plasma-induced graft polymerization", J. MEMBRANE SCI., vol. 43, 1989, pages 165 - 175, XP002456473

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)  
**WO 03049671 A2 20030619; WO 03049671 A3 20031204**; AU 2002360298 A1 20030623; CA 2469301 A1 20030619; EP 1463480 A2 20041006; EP 1463480 A4 20080827; JP 2005511074 A 20050428; JP 4503293 B2 20100714

DOCDB simple family (application)  
**US 0233942 W 20021023**; AU 2002360298 A 20021023; CA 2469301 A 20021023; EP 02795546 A 20021023; JP 2003550722 A 20021023