

Search history

Search 1: SFT=(buffer and tube and fiber and optic) (Results 10148)
Search 2: 1 and (polymer near microstructure) (Results 12)
Search 3: 1 and polymer and jacket (Results 944)
Search 4: 3 and PD<20140618 (Results 719)
Search 5: 4 and microstructure* (Results 0)
Search 6: 2 (Results 12)

Title: Polyolefin materials suitable for optical **fiber** cable components

Abstract: Optical **fiber** cable components such as **buffer tubes**, filler rods, or jackets are produced using a thermoplastic polyolefin characterized by a high melt flow index. The use of material with a high melt flow index versus conventional "extrusion grade" materials which are characterized by a low melt flow index results in substantial improvements in **buffer tube** crystallinity and crystallization rates, improved **buffer tube** crush resistance, reduced post extrusion shrinkage, improved gel compatibility, and improved excess **fiber** length control. The advantages of using materials with a high melt flow index are most evident when processing thermoplastic materials such as nucleated copolymers of ethylene and propylene at high line speeds (shear rates) of over 50M/min.

Classifications:

International (IPC 8-9): C01B33/22 C01F11/18 C08K3/04 C08K3/26 C08K3/34 C08K3/36 C08K5/098 C08L23/00 C08L23/02 C08L23/06 C08L23/12 C08L23/16 G02B6/44 H01B11/22 (Advanced/Invention); C01B33/00 C01F11/00 C08K3/00 C08K5/00 C08L23/00 G02B6/44 H01B11/00 (Core/Invention)

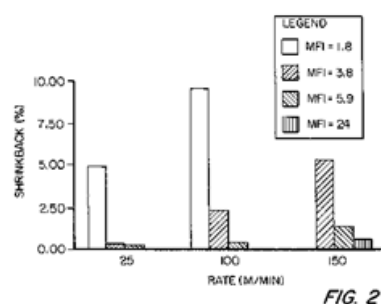
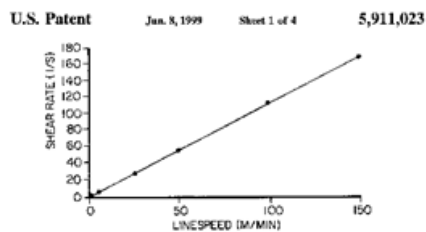
International (IPC 1-7): C01B33/22 C01F11/18 C08J5/00 C08K13/02 C08K3/04 C08K3/26 C08K3/34 C08K3/36 C08K5/098 C08L23/00 C08L23/02 C08L23/06 C08L23/12 C08L23/16 G02B6/44 H01B11/22

CPC: G02B6/4401 G02B6/4433 G02B6/4479

European: G02B6/44C G02B6/44C7A1L G02B6/44C9

US: 385/100 385/141 525/68

PatBase - US5911023_R



Family:

Publication number	Publication date	Application number	Application date
BRPI9803350 A	19991013	BR1998PI03350	19980709
CN100379809 C	20080409	CN200310123866	19980630
CN1139630 C	20040225	CN19981015546	19980630
CN1205347 A	19990120	CN19981015546	19980630
CN1508178 A	20040630	CN200310123866	19980630
DE69841033 D1	20090917	DE19986041033	19980625
EP0890860 A2	19990113	EP19980401570	19980625
EP0890860 A3	20000329	EP19980401570	19980625
EP0890860 B1	20090805	EP19980401570	19980625
ES2328989 T3	20091119	ES19980401570T	19980625
JP11064695 A2	19990305	JP19980147510	19980528
JP3628874 B2	20050316	JP19980147510	19980528
US5911023 A	19990608	US19970891978	19970710

Priority:

US19970891978 19970710

Probable Assignee: DRAKA COMTEQ BV

Assignee(s): (std): ALSTHOM CGE ALCATEL ; CIT ALCATEL ; ALCATEL ALSTHOM CO ; DRAKA COMTEQ BV ; ALCATEL CO

Assignee(s): ALCATEL ; ALCATEL ALSTHOM COMPAGNIE GENERALE D ELECTRICITE ; ALCATEL ALSTHOM CO GENERAL ELECTRICITE ; ALCATEL ALSTHOM COMP GEN ; ALCATEL ALSTHOM COMP GENERALE D ELECTRICITE ; DRAKA COMTEQ B V

Inventor(s): (std): RISCHE B G ; RISCHE B G ; HUORDE J D ; HOLDER J D ; RISCHE BRIAN G ; HOLDER JAMES D

Inventor(s): BG RISCHE ; BG RISCHE ; JD HUORDE ; JD HOLDER ; B G RISCHE ; B G RISCHE ; BRIAN G RISCHE ; J D HOLDER ; J D HUORDE ; JAMES D HOLDER

Agent(s): BLOKLAND ARIE

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Title: VASCULARIZED PERFUSED MICROTISSUE/MICRO-ORGAN ARRAYS

Abstract: Systems including (1) a micromatrix and perfusion assembly suitable for seeding and attachment of cells within the matrix and for morphogenesis of seeded cells into complex, hierarchical tissue or organ structures, wherein the matrix includes channels or vessels through which culture medium, oxygen, or other nutrient or body fluids can be perfused while controlling gradients of nutrients and exogenous metabolites throughout the perfusion path independently of perfusion rate, and (2) sensor means for detecting changes in either cells within the matrix or in materials exposed to the cells, have been developed. Methods for making the micromatrices include micromachining, micromolding, embossing, laser drilling, and electro deposition machining. Cells can be of one or more types, either differentiated or undifferentiated. In a preferred embodiment, the matrix is seeded with a mixture of cells including endothelial cells which will line the channels to form "blood vessels", and at least one type of parenchymal cells, such as hepatocytes, pancreatic cells, or other organ cells. The system can be used to screen materials for an effect on the cells, for an effect of the cells on the materials (for example, in a manner equivalent to tissue metabolism of a drug), or to test a material on a biological that must first infect cells or tissues, such as viruses. The apparatus also can be used to provide a physiological environment for expansion of stem cells, or for enabling gene therapy in vitro.

Classifications:

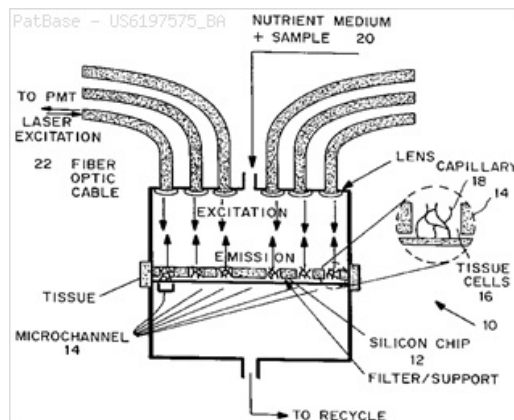
International (IPC 8-9): B01J19/00 C12M1/34 C12M3/04 C12Q1/02 C40B30/00 C40B60/00 G01N33/50 (Advanced/Invention); C40B60/14 (Advanced/Non-invention)

International (IPC 1-7): C12M1/34 C12M3/00 C12M3/04 G01N33/50

CPC: G01N33/5038 B01J19/0046 B01J2219/00286 B01J2219/00308 B01J2219/00313 B01J2219/00317 B01J2219/00319 B01J2219/00351 B01J2219/00376 B01J2219/00416 B01J2219/00585 B01J2219/00659 B01J2219/0072 B82Y30/00 C40B60/14 G01N33/5008 G01N33/502 G01N33/5058 G01N33/5064 G01N33/5073 C12M21/08 C12M41/46 C12M23/12 B33Y10/00 B33Y80/00

European: B01J19/00C B82Y30/00 G01N33/50D2 G01N33/50D2E G01N33/50D2E12 G01N33/50D2F14 G01N33/50D2F4 G01N33/50D2F8 L01J219/00C10B L01J219/00C2B2D L01J219/00C2B4B L01J219/00C2B4D L01J219/00C2B4D2B L01J219/00C2B4D6 L01J219/00C2D L01J219/00C2D14B L01J219/00C2D5B L01J219/00C4B L01J219/00C4L12 L82T201/01S L82T201/01T M40B60/14

US: 435/288.4 435/288.7 435/297.5 435/305.2 435/33 435/373 435/395

**Family:**

Publication number	Publication date	Application number	Application date
AT227338 E	20021115	AT19990913967T	19990318
CA2324208 AA	20000918	CA19992324208	19990318
CA2324208 C	20090630	CA19992324208	19990318
DE69903800 D1	20021212	DE19996003800	19990318
DE69903800 T2	20031002	DE19996003800T	19990318
EP1064353 A2	20010103	EP19990913967	19990318
EP1064353 B1	20021106	EP19990913967	19990318
US6197575 BA	20010306	US19990272227	19990318
WO9947922 A2	19990923	WO1999US05974	19990318
WO9947922 A3	19991104	WO1999US05974	19990318

Priority:

US19980078452P 19980318 US19990272227 19990318 WO1999US05974 19990318

Probable Assignee: MASSACHUSETTS INST OF TECHNOLOGY

Assignee(s): (std): MASSACHUSETTS INST TECHNOLOGY

Assignee(s): NATIONAL SCIENCE FOU ; NATIONAL SCIENCE FOUNDATION ; MASSACHUSETTS INSTITUTE OF TECHNOLOGY ; MASSACHUSETTS INSTITUTE OF TECHNOLOGY CAMBRIDGE ; POWERS MARK J ; THOMPSON CHARLES D ; TANNENBAUM STEVEN R ; MASSACHUSETTS INST OF TECHNOLOGY CAMBRIDGE ; DOMANSKY KAREL ; GRIFFITH LINDA G ; MASSACHUSETTS INST ; MASSACHUSETTS INST OF TECHNOLOGY

Inventor(s): (std): DOMANSKY KAREL ; GRIFFITH LINDA G ; POWERS MARK J ; TANNENBAUM STEVEN R ; THOMPSON CHARLES D ; THOMPSON D ; TANNENBAUM STEVEN ; TANNENBAUM R ; POWERS J ; GRIFFITH G

Agent(s): BERESKIN AND PARR LLP SENCRL SRL

Designated states: AT BE CA CH CY DE DK ES FI FR GB GR IE IT JP LI LU MC NL PT SE

Title: COMPOSITE STRUCTURAL COMPONENTS CONTAINING THERMOTROPIC LIQUID CRYSTALLINE POLYMER REINFORCEMENTS FOR OPTICAL FIBER CABLES

Abstract: A process for producing an optical fiber cable composite structural component, such as reinforcing members, buffer tubes, filler rods, jackets, and slotted cores, is disclosed. The composite structural components are produced by co-extruding a thermotropic liquid crystalline polymer (TLCP) and a thermoplastic matrix material into the composite structural component so that TLCP reinforcing fibrils are dispersed in the thermoplastic matrix material. The TLCP reinforcing fibrils undergo a high level of process induced orientation, are provided with a high aspect ratio, and small diameters. The composite structural component has a high modulus. The TLCP reinforcing fibrils may be made continuous or discontinuous.

Classifications:

International (IPC 8-9): B29D11/00 C08J5/04 C08L101/00 C08L23/02 C08L67/00 C08L67/02 C08L77/00 D02G3/00 G02B6/44 (Advanced/Invention);

C08K3/00 C08K5/098 C08L67/03 (Advanced/Non-invention)

International (IPC 1-7): C08J5/04 C08L101/00 D02G3/00 G02B6/18 G02B6/44

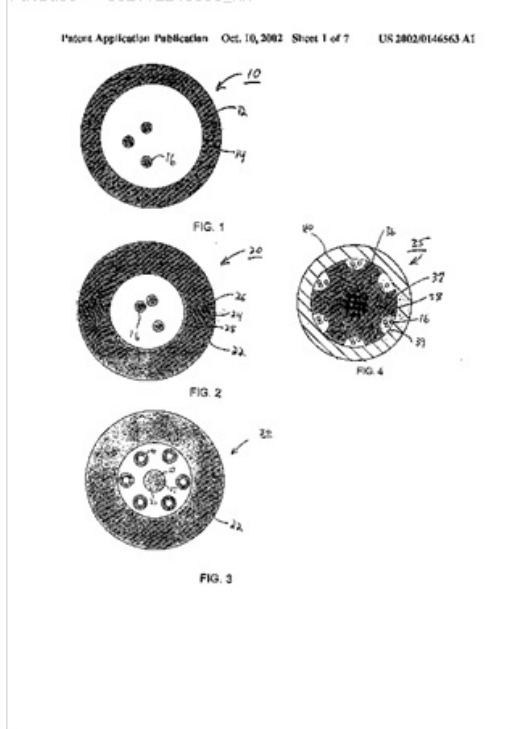
CPC: Y10T428/2929 Y10T428/2933 C08L67/02 C08J5/046 C08J2323/02 C08J2323/10 C08K5/0083 C08K5/098 C08L23/02

C08L23/06 C08L23/10 C08L67/00 C08L67/03 C08L77/00 C08L2205/08 C08L2205/12 G02B6/4429 G02B6/443 C08K2201/016 C08K3/013

European: C08J5/04L C08L23/02 C08L23/06 C08L23/10 C08L67/00 C08L67/02 C08L77/00 G02B6/44C7 G02B6/44C7A M08J323/02 M08J323/10 M08K3/00P5 M08K5/00P10 M08K5/098 M08L205/08 M08L205/12 M08L67/03

US: 264/1.24 264/1.240S 264/1.28 264/1.29 264/1.6 264/12.8 264/12.9 264/128 264/129 264/16 385/100 385/100P 385/103 385/113 385/123 428/373 428/373S 428/375 428/375P

PatBase - US2002146563_AA



Family:

Publication number	Publication date	Application number	Application date
DE69943330 D1	20110519	DE19996043330	19990211
EP0945479 A2	19990929	EP19990400325	19990211
EP0945479 A3	19991103	EP19990400325	19990211
EP0945479 B1	20110406	EP19990400325	19990211
ES2361475 T3	20110617	ES19990400325T	19990211
JP11281856 A2	19991015	JP19990039029	19990217
US2002146563 AA	20021010	US20020105925	20020325
US2005286842 AA	20051229	US20050216995	20050830
US7010201 BB	20060307	US20050216995	20050830
US7011774 BB	20060314	US20020105925	20020325

Priority:

US19980027693 19980223 US20020105925 20020325 US20050216995 20050830

Probable Assignee: DRAKA COMTEQ BV

Assignee(s): CIT ALCATEL ; DRAKA COMTEQ BV ; RISCH BRIAN G

Assignee(s): DRAKA COMTEQ B V ; ALCATEL ; ALCATEL CIT

Inventor(s): (std): BRIAN G RISUCHI ; RISCH BRIAN G

Inventor(s): RISCH BRIAN

Agent(s): BLOKLAND ARIE; WARE FRESSOLA VAN DER SLUYS AND , ADOLPHSON LLP; WARE FRESSOLA VAN D SLUYS AND ADOLPHSON LLP

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Title: SINGLE-MOLECULE SELECTION METHODS AND COMPOSITIONS THEREFROM

Abstract: Single-molecule selection methods are provided for identifying target-binding molecules from diverse sequence and shape libraries. Complexes and imprints of selected target-binding molecules are also provided. The subject selection methods are used to identify oligonucleotide and nonnucleotide molecules with desirable properties for use in pharmaceuticals, drug discovery, drug delivery, diagnostics, medical devices, cosmetics, agriculture, environmental remediation, smart materials, packaging, microelectronics and nanofabrication. Single oligonucleotide molecules with desirable binding properties are selected from diverse sequence libraries and identified by amplification and sequencing. Alternatively, selected oligonucleotide molecules are identified by sequencing without amplification. Nonnucleotide molecules with desirable properties are identified by single-molecule selection from libraries of conjugated molecules or nucleotide-encoded nonnucleotide molecules. Alternatively, target-specific nonnucleotide molecules are prepared by imprinting selected oligonucleotide molecules into nonnucleotide molecular media. Complexes and imprints of molecules identified by single-molecule selection are shown to have broad utility as drugs, prodrugs, drug delivery systems, willfully reversible cosmetics, diagnostic reagents, sensors, transducers, actuators, adhesives, adherents and novel multimolecular devices.

Classifications:

International (IPC 8-9): C07H21/00 C07H21/02 C07H21/04 C12Q1/68 (Advanced/Invention)

International (IPC 1-7): C07H19/00 C07H21/00 C07H21/02 C07H21/04 C07K14/00 C07M21/02 C12P19/34 C12Q1/08 C12Q1/68

CPC: Y10S977/853 C07H21/00

European: C07H21/00

US: 435/6 435/6.1 435/6.100S 435/6.11 435/6.110P 435/6.12 435/6.120P 435/6P 435/91.2 435/91.200S 530/395 530/395S 536/22.1 536/22.100S 536/23.1 536/23.100S 536/24.3 536/24.300S 536/24.5 536/24S 977/853

Family:

Publication number	Publication date	Application number	Application date
AU199941947 A1	19991206	AU19990041947	19990520
CA2328599 AA	20001116	CA19992328599	19990520
EP1080231 A1	20010307	EP19990925714	19990520
EP1080231 A4	20040114	EP19990925714	19990520
US2002034757 AA	20020321	US20010907385	20010717
US2005089890 AA	20050428	US20040872973	20040621
US6287765 BA	20010911	US19980081930	19980520
US6762025 BB	20040713	US20010907385	20010717
WO9960169 A1	19991125	WO1999US11215	19990520

Priority:

US19980081930 19980520 WO1999US11215 19990520 US20010907385 20010717
US20040872973 20040621

Probable Assignee: MOLECULAR MACHINES INC

Assignee(s): (std): MOLECULAR MACHINES INC

Assignee(s): CUBICCIOTTI ROGER S

Inventor(s): (std): CUBICCIOTTI ROGER S ; ROGER S CUBICCIOTTI

Inventor(s): CUBICCIOTTI ROGER

Agent(s): BORDEN LADNER GERVAIS LLP; LICATA AND TYRRELL PC

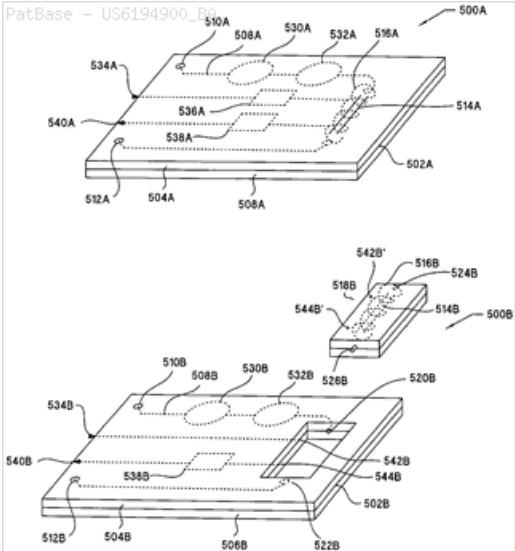
Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW

Title: Integrated miniaturized device for processing and NMR detection of liquid phase samples

Abstract: A miniaturized total analysis system with an in-line NMR detection compartment and an NMR rf microcoil detector is described for use in liquid phase analysis. The device is formed by microfabrication of microstructures in novel support substrates. The NMR detector coil may be fabricated directly in the support body at the point of detection or, alternatively, may be formed as part of a modular structure that is insertable into the device at the point of detection. In addition, an integrated device for sample preparation and NMR detection is provided comprising the miniaturized total analysis system and a miniature magnet configured to accept the miniaturized total analysis system, wherein the device is capable of generating an NMR spectrum. The invention herein is used for the analysis of small and/or macromolecular and/or other solutes in the liquid phase.

Classifications:

International (IPC 8-9): G01R33/30 (Advanced/Invention);
G01R33/30 (Core/Invention)
International (IPC 1-7): G01R33/20 G01R33/30 G01V3/00
CPC: G01R33/302
European: G01R33/30M
US: 324/318 324/321



Family:

Publication number	Publication date	Application number	Application date
DE19927976 A1	20000113	DE19991027976	19990618
US6194900 BA	20010227	US19980100495	19980619

Priority:

US19980100495 19980619

Probable Assignee: AGILENT TECHNOLOGIES INC

Assignee(s): (std): AGILENT TECHNOLOGIES INC ; HEWLETT PACKARD CO

Assignee(s): HEWLETT PACKARD CO PALO ALTO ; AGILENT TECHNOLOGIES LEGAL DEPARTMENT ; AGILENT TECHNOLOGIES

Inventor(s): (std): FREEMAN DOMINIQUE M ; SWEDBERG SALLY A

Title: BIOCHANNEL ASSAY FOR HYBRIDIZATION WITH BIOMATERIAL

Abstract: The invention relates to a microfluidic device with microchannels that have separated regions which have a member of a specific binding pair member such as DNA or RNA bound to porous polymer, beads or structures fabricated into the microchannel. The microchannels of the invention are fabricated from plastic and are operatively associated with a fluid propelling component and detector.

Classifications:

International (IPC 8-9): B01J19/00 B01J19/08 B01J19/24 B01J35/02 B01L3/00 B01L7/00 B28B11/00 B32B18/00 B81B1/00 C07B61/00 C12M1/00 C12M1/34 C12N15/09 C12P19/34 C12Q1/68 C40B40/02 C40B40/06 C40B40/10 C40B50/06 C40B60/14 F04B17/00 F04B19/00 F28D9/00 F28F13/00 G01N30/02 G01N30/52 G01N30/60 G01N30/66 G01N31/20 G01N31/22 G01N33/53 G01N33/552 G01N33/566 G01N35/00 G01N35/08 G01N37/00 H05K1/02 H05K1/03 H05K3/46 (Advanced/Invention); B01J19/24 B01L7/00 B01L9/00 B28B11/00 B81B1/00 C07B61/00 C12M1/00 C12N15/09 C40B40/06 C40B40/10 C40B60/14 G01N21/05 G01N30/02 G01N30/52 G01N30/60 G01N31/20 G01N31/22 G01N33/53 G01N33/566 G01N35/00 G01N35/08 G01N37/00 H05K1/02 H05K1/03 H05K3/46 (Advanced/Non-invention); B01J19/00 B01L3/00 B01L7/00 B32B18/00 B81B1/00 C12M1/00 C12N15/09 C12Q1/68 C40B40/02 C40B50/06 F04B17/00 F04B19/00 F28D9/00 F28F13/00 G01N30/00 G01N31/20 G01N33/53 G01N37/00 (Core/Invention); B01L7/00 B01L9/00 C07B61/00 C40B40/04 C40B60/14 G01N21/03 G01N30/00 G01N35/00 (Core/Non-invention)

International (IPC 1-7): B01D53/02 B01D53/14 B01J10/00 B01J19/00 B01J19/00 B01J19/12 B01J19/24 B01J35/02 B01L3/00 B01L7/00 B28B11/00 B32B18/00 B32B18/00 B32B31/12 B32B31/26 B81B1/00 C04B33/32 C07H21/02 C07H21/04 C12M1/00 C12M1/34 C12M3/00 C12N15/09 C12P19/34 C12Q1/68 F04B19/00 F04B19/00 G01N30/02 G01N30/60 G01N30/66 G01N30/90 G01N31/20 G01N31/22 G01N33/53 G01N33/543 G01N33/552 G01N33/558 G01N33/566 G01N35/08 G01N37/00 H05B6/64 H05B6/80 H05K3/46

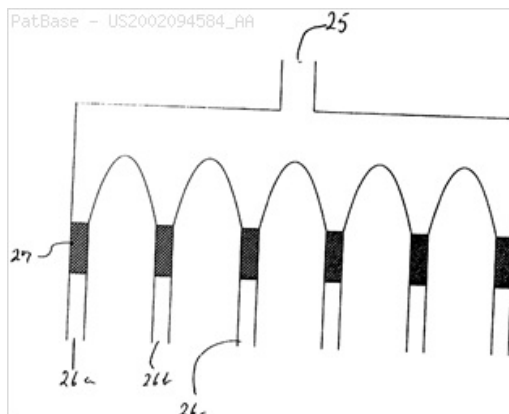
CPC: B01J2219/00511 B01L2200/0684 B01L2300/0819 B01L2300/088 B01L2400/0487 B01L9/527 B01L2200/027 B01L2300/0877 B01L2300/123 B01L2300/1861 B01L2300/1866 B01L2400/0677 B01L2300/1816 B01J2219/00824 B01J2219/0086 B01J2219/00862 B01J2219/00891 B01J2219/00916 B01L2300/14 B01L2400/0418 G01N2030/0095 Y10S366/02 Y10S435/81 Y10S436/805 B01J2219/00612 B01J2219/00626 B01J2219/00637 B01J2219/00641 B01J2219/00702 B01L3/50853 B01L2300/0822 B01L2400/0481 C07B2200/11 G01N2021/054 G01N2035/00267 B01J2219/00416 B01J2219/00418 B01J2219/00421 B01J2219/00432 B01J2219/0052 B01J2219/00522 B01J2219/00585 B01J2219/00596 B01J2219/00605 B01J2219/0061 B01J2219/00621 B01J2219/00644 B01J2219/00648 B01J2219/00659 B01J2219/00707 B01J2219/00711 B01J2219/00722 B01J2219/00725 B01L7/525 B01L2300/0636 B01L2400/043 B01L2400/049 C12Q1/6834 C40B40/06 C40B40/10 G01N30/66 G01N30/68 G01N30/68 B01L3/5025 B01L2200/10 B01L2300/0816 B01L2300/087 C04B2235/6562 C04B2237/341 C04B2237/68 C04B35/63424 C04B35/6455 C04B2235/6567 C04B2237/62 C04B2237/704 B01L3/5027 B01J2219/00317 B01J2219/00351 C40B60/14 G01N30/6069 B01J2219/00495 B01J2219/00783 B01J2219/00873 B01J2219/00966 B01L3/50273 B01L3/502738 B01L7/00 B01L2200/0689 B01L2300/12 B81B2201/058 B81C1/00119 B81C2201/019 G01N30/60 G01N30/6095 G01N2030/025 G01N2035/00158 G01N2035/00237 B01J2219/00853 B01J2219/0093 B01J2219/00932 B01J2219/00961 B01L2200/147 B01L2300/0654 B01L2300/1827 B01L2300/1883 B01L2400/0688 F04B17/00 B01J19/0093 B01J2219/00835 B01L7/52 B01L2200/12 B01L2300/0627 B01L2300/0645 B01L2300/0874 B01L2300/0883 B01L2300/0887 B01L2300/18 B01L2300/1822 B01L2400/0415 B01L2400/0439 B32B18/00 B32B2038/042 B32B2311/06 B32B2311/08 B32B2315/02 C04B2237/343 C04B2237/348 F04B19/006 F28D9/00 F28D2021/0029 F28F13/00 F28F2260/02 G01N30/6004 G01N2030/528 H05K1/0272 H05K1/0306 H05K3/4611 H05K3/4629 B82Y30/00 Y10T156/1039 C04B2237/50 B01L3/502707 B01L3/502723 B01L3/502753 B01L3/502761 B01L3/502715

European: B01J19/00R B01L3/00C6D B01L3/00C6M B01L3/5025 B01L3/5027 B01L3/5027A B01L3/5027B B01L3/5027C B01L3/5027D B01L3/50853 B01L7/00 B01L7/52 B01L7/525 B32B18/00 B81C1/00C2W B82Y30/00 C12Q1/68B10 F04B17/00 F04B19/00M F28D9/00 F28F13/00 G01N30/60 G01N30/60D6 G01N30/60M L01J219/00C10B2 L01J219/00C10B4 L01J219/00C2B4D2B L01J219/00C2D L01J219/00C2D14B L01J219/00C2D16 L01J219/00C2D18 L01J219/00C2D24D L01J219/00C2K L01J219/00C2L6 L01J219/00C2L7F L01J219/00C2L7F2 L01J219/00C4B L01J219/00C4H L01J219/00C4L12 L01J219/00C4L2 L01J219/00C4L2D L01J219/00C4L2F L01J219/00C4L2H4 L01J219/00C4L2J2 L01J219/00C4L2L4 L01J219/00C4L3B L01J219/00C4L3D L01J219/00C4L4B L01J219/00C6P L01J219/00C6P4 L01J219/00R8B L01J219/00R10B L01J219/00R10F2 L01J219/00R10F4 L01J219/00R12 L01J219/00R16 L01J219/00R18H L01J219/00R2 L01J219/00R20D L01J219/00R20F L01J219/00R22B2F L01J219/00R22B2J L01J219/00R8D L01J219/00R8R L01L200/02D2 L01L200/06M L01L200/06N L01L200/10 L01L200/12 L01L200/14C6 L01L3/5025 L01L3/5027A L01L3/5027B L01L3/5027C L01L3/5027E L01L3/5027G L01L3/5027H L01L300/06B L01L300/06B2 L01L300/06B4 L01L300/06B6 L01L300/08B4 L01L300/08B6 L01L300/08B8 L01L300/08E10 L01L300/08E12 L01L300/08E14 L01L300/08E6 L01L300/08E8 L01L300/08F L01L300/12 L01L300/12A L01L300/14 L01L300/18 L01L300/18A4 L01L300/18A6 L01L300/18A8 L01L300/18E L01L300/18E2 L01L300/18G L01L400/04F10U L01L400/04F6 L01L400/04F6A L01L400/04F8 L01L400/04M4 L01L400/04M8 L01L400/04M8V L01L400/06P L01L400/06S L01L9/527 L32B31/00D2 L32B31/06 L32B31/08 L32B31/02 L32B38/04A L81B201/05Z L81C201/01F8 M04B237/34F M04B237/34H8 M04B237/40R M04B237/50 M04B237/62 M04B237/70K M07B200/11 M40B40/06 M40B40/10 M40B60/14 R28D21/00T50C R28F260/02 S01N21/052 S01N30/00F S01N30/02A2 S01N30/52C3 S01N30/60A S01N30/60M S01N35/00C7D S01N35/00D5 S01N35/00D5V2 T05K1/02F T05K1/03B T05K3/46B T05K3/46B5B

US: 156/219 156/272.8 156/312 156/89.11 156/89.12 156/89.16 156/89.23 216/52 216/52S 219/678 219/687 219/756 264/614 264/614S 366/DIG.2 422/129 422/186 422/186.29 422/240 422/50 422/68.1 422/89 422/89P 435/285.1 435/287.1 435/287.100P 435/287.2 435/287.200P 435/287.200S 435/288.4 435/288.5 435/288.500P 435/288.7 435/305.3 435/4 435/6 435/6.1 435/6.100S 435/6.11 435/6.110P 435/6.110S 435/6.12 435/6.120P 435/6.120S 435/6.13 435/6.19 435/6.190P 435/6P 435/6S 435/7.1 435/7.100P 435/7.100S 435/7.93 435/810 435/91.1 435/91.2 435/91.200S 436/501 436/514 436/514P 436/517 436/518 436/524 436/527 436/528 436/529 436/531 436/805 506/9 536/22.1 536/24.3 536/24.31 536/24.32 536/24.33 536/25.32 536/25.4 7/32.32 73/23.2 73/23.35 73/23.39 96/101

Family:

Publication number	Publication date	Application number	Application date
AT236719 E	20030415	AT19990951826T	19991007
AT244603 E	20030715	AT20000993037T	20001109
AT287765 E	20050215	AT20000010981T	20001109
AU199964184 A1	20000501	AU19990064184	19991007
AU199964184 A5	20000501	AU19990064184	19991007
AU200120827 A1	20010618	AU20010020827	20001211
AU200120827 A5	20010618	AU20010020827	20001211
AU2001234593 AA	20010807	AU20010234593	20010126
AU2001234593 BB	20050929	AU20010234593	20010126
AU200129238 A1	20010606	AU20010029238	20001109
AU200129238 A5	20010606	AU20010029238	20001109
AU200132641 A1	20010625	AU20010032641	20001215



AU200132641 A5	20010625	AU20010032641	20001215
AU200134593 A1	20010807	AU20010034593	20010126
AU200134593 A5	20010807	AU20010034593D	20010126
AU2004203548 AA	20040826	AU20040203548	20040802
AU773289 B2	20040520	AU20010029238	20001109
AU778696 B2	20041216	AU20010032641	20001215
CA2346059 AA	20010330	CA19992346059	19991007
CA2346059 AA	20000420	CA19992346059	19991007
CA2389549 AA	20020430	CA20002389549	20001109
CA2393690 AA	20020607	CA20002393690	20001211
CA2394275 AA	20020613	CA20002394275	20001215
CA2398271 AA	20020725	CA20012398271	20010126
DE60003845 D1	20030814	DE20006003845	20001109
DE60003845 T2	20040527	DE20006003845T	20001109
DE60017809 D1	20050303	DE20006017809	20001109
DE60017809 T2	20060105	DE20006017809T	20001109
DE69906772 D1	20030515	DE19996006772	19991007
DE69906772 T2	20040311	DE19996006772T	19991007
DK1233830 T3	20030922	DK20000993037T	20001109
EP1123157 A1	20010816	EP19990951826	19991007
EP1123157 B1	20030409	EP19990951826	19991007
EP1233830 A2	20020828	EP20000993037	20001109
EP1233830 B1	20030709	EP20000993037	20001109
EP1237655 A2	20020911	EP20000984156	20001211
EP1242819 A2	20020925	EP20000991410	20001215
EP1251963 A2	20021030	EP20010906719	20010126
EP1314472 A1	20030528	EP20030002295	19991007
EP1350568 A1	20031008	EP20030010981	20001109
EP1350568 B1	20050126	EP20030010981	20001109
EP1520619 A2	20050406	EP20040027973	20001109
EP1520619 A3	20050921	EP20040027973	20001109
ES2197681 T3	20040101	ES19990951826T	19991007
ES2202224 T3	20040401	ES20000993037T	20001109
JP2002527254 T2	20020827	JP20000575618T	19991007
JP2003514221 T2	20030415	JP20010536293T	20001109
JP2003517156 T2	20030520	JP20010545592T	20001215
JP2003517591 T2	20030527	JP20010543266T	20001211
JP2003520972 T2	20030708	JP20010554789T	20010126
PT1233830 T	20031128	PT20000993037T	20001109
US2002094584 AA	20020718	US20010028277	20011219
US2003118481 AA	20030626	US20020310378	20021205
US2003129646 AA	20030710	US20030340057	20030110
US2003190608 AA	20031009	US20010861171	20010517
US2003190744 AA	20031009	US20030394484	20030320
US2004018523 AA	20040129	US20030430808	20030505
US2004043479 AA	20040304	US20020149318	20021114
US2004137605 AA	20040715	US20030665389	20030918
US2005009101 AA	20050113	US20040886408	20040707
US6361958 BA	20020326	US19990438600	19991112
US6527890 BA	20030304	US19990460283	19991209
US6544734 BA	20030408	US19990460281	19991209
US6569674 BA	20030527	US20000492013	20000126
US6572830 BA	20030603	US19990337086	19990621
US6589778 BA	20030708	US19990464490	19991215
US6592696 BA	20030715	US19990235081	19990121
US6642046 BA	20031104	US19990458534	19991209
US6732567 BB	20040511	US20020310378	20021205
US6875619 BB	20050405	US20010861171	20010517
US6960467 BB	20051101	US20010028277	20011219
US6984516 BB	20060110	US20030340057	20030110
WO0021659 A1	20000420	WO1999US23324	19991007
WO0021659 C2	20000908	WO1999US23324	19991007
WO0134302 A2	20010517	WO2000US42047	20001109
WO0134302 A3	20020110	WO2000US42047	20001109
WO0134302 C2	20020815	WO2000US42047	20001109
WO0141931 A2	20010614	WO2000US33499	20001211
WO0141931 A3	20020103	WO2000US33499	20001211
WO0141931 C2	20020530	WO2000US33499	20001211
WO0144515 A2	20010621	WO2000US34145	20001215
WO0144515 A3	20020307	WO2000US34145	20001215
WO0144515 C2	20020704	WO2000US34145	20001215
WO0154814 A2	20010802	WO2001US02664	20010126
WO0154814 A3	20020214	WO2001US02664	20010126
WO0154814 C2	20021031	WO2001US02664	20010126

Priority:

US19980103701P	19981009	US19990235081	19990121	US19990337086	19990621
EP19990951826	19991007	WO1999US23324	19991007	US19990438600	19991112
US19990438600	19991112	US19990460283	19991209	US19990460281	19991209
US19990458534	19991209	US19990464490	19991215	US19990466325	19991217
US20000492013	20000126	US20000605766	20000628	AU20010029238	20001109
EP20000993037	20001109	EP20030010981	20001109	EP20030010981	20001109
WO2000US42047	20001109	WO2000US42047	20001109	WO2000US33499	20001211

WO2000US34145	20001215	WO2001US02664	20010126	US20010861171	20010517
US20010028277	20011219	US20020149318	20021114	US20020310378	20021205
US20030340057	20030110	US20030394484	20030320	US20030430808	20030505
US20030665389	20030918	US20040886408	20040707		

Probable Assignee: GOOGLE INC

Assignee(s): (std): BRISCOE CYNTHIA G ; GRODZINSKI PIOTR ; BURDON JEREMY W ; FOLEY BARBARA ; CHOONG VI EN ; CHAN TONY ; HAWKINS GEORGE ; HAWKINS GEORGE W ; CLINICAL MICRO SENSORS INC ; HUANG RONG FONG ; MOTOROLA INC ; MARRERO ROBERT ; SHIEH CHAN LONG ; KAHN PETER ; MCGARRY MARK W ; TUGGLE TODD ; JOHNSON W TRAVIS ; YU HUINAN ; AMERSHAM ; AMERSHAM BIOSCIENCES AB ; BLACKBURN GARY

Assignee(s): BRISCOE CYNTHIA ANN GORSUCH ; AMERSHAM BIOSCIENCES AKTIEBOLAG ; AMERSHAM BIOSCIENCES BJOR ABKG ; BARENBURG BARBARA FOLEY ; MOTOROLA MOBILITY LLC ; NACLERIO NICHOLAS J ; WILCOX DAVID ; WATERS TECHNOLOGIES CORP ; MOTOROLA ; OSMETECH TECHNOLOGY INC ; SQUARE ; JOHNSON W ; SQUARE 1 BANK ; MOTOROLA MOBILITY INC ; MOTOROLA SOLUTIONS INC ; MARCERO ROBERT ; FOLEY BARBARA MCNEIL ; GALLAGHER SEAN ROSS ; CHAN YUK TONG ; DAI XUNHU ; GOOGLE TECHNOLOGY HOLDINGS LLC ; GOOGLE INC ; GE HEALTHCARE BIO SCIENCES AB

Inventor(s): (std): YU HUINAN ; YU HUISNAN ; YUK TONG CHAN ; XUNHU DAI ; WILCOX DAVID ; TUGGLE TODD ; SEAN ROSS GALLAGHER ; RONG FONG HUANG ; ROBERT MARRERO ; PIOTR GRODZINSKI ; NICHOLAS J NACLERIO ; NACLERIO NICHOLAS J ; MCGARRY MARK W ; MARRERO ROBERT ; KAHN PETER ; JOHNSON W TRAVIS ; BRISCOE ANN ; BURDON W ; CHOONG VI EN ; FOLEY BARBARA ; FOLEY BARENBURG ; GALLAGHER ROSS ; MARCERO ROBERT ; NACLERIO J ; SHIEH CHAN LONG ; GALLAGHER SEAN ROSS ; FOLEY BARBARA MCNEIL ; FOLEY BARBARA BARENBURG ; DAVID WILCOX ; DAI XUNHU ; CYNTHIA ANN GORSUCH BRISCOE ; CHAN YUK TONG ; CHAN TONY ; BURDON JEREMY W ; BRISCOE CYNTHIA G ; BRISCOE CYNTHIA ANN GORSUCH ; BARENBURG BARBARA FOLEY ; BARBARA MCNEIL FOLEY ; JEREMY W BURDON ; HUINAN YU ; HUANG RONG FONG ; HAWKINS GEORGE W ; HAWKINS GEORGE ; GRODZINSKI PIOTR ; BLACKBURN GARY

Inventor(s): GEORGE W HAWKINS ; BARBARA FOLEY ; W TRAVIS JOHNSON ; TONY CHAN ; TODD TUGGLE ; PETER KAHN ; MARK W MCGARRY ; GEORGE HAWKINS ; CYNTHIA G BRISCOE ; CHAN LONG SHIEH ; VI EN CHOONG ; JOHNSON W

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; FURUKAWA YASUMICHI; AOYAMA TAMOTSU; MAEDA ATSUSHI; KANO HIROSHI; KAWAMIYA OSAMU; TANAKA MITSUO; ROBIN M SILVA DORSEY AND WHITNEY LLP; DORSEY AND WHITNEY LLP; ROBIN M; RENEE M

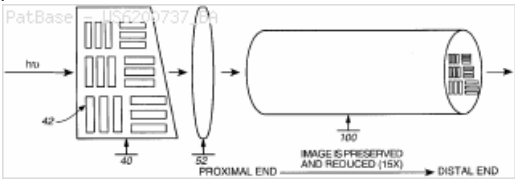
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CR CU CY CZ DE DK DM DZ EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: PHOTODEPOSITION METHOD FOR FABRICATING A THREE-DIMENSIONAL, PATTERNED **POLYMER MICROSTRUCTURE**

Abstract: The present invention is a photodeposition methodology for fabricating a three-dimensional patterned **polymer microstructure**. A variety of polymeric structures can be fabricated on solid substrates using unitary **fiber optic** arrays for light delivery. The methodology allows micrometer-scale photopatterning for the fabricated structures using masks substantially larger than the desired dimensions of the microstructure.

Classifications:

International (IPC 8-9): G02B6/06 G03F7/20 (Advanced/Invention);
G02B6/06 G03F7/20 (Core/Invention)
International (IPC 1-7): G02B6/08
CPC: G03F7/2043 G02B6/06 G03F7/2008
European: G02B6/06 G03F7/20A3 S03F7/20F2
US: 422/82.06 422/82.11 430/320 430/321 430/5



Family:

Publication number	Publication date	Application number	Application date
US6200737 BA	20010313	US19950519062	19950824

Priority:

US19950519062 19950824

Probable Assignee: TRUSTEES OF TUFTS COLEGE

Assignee(s): (std): TUFTS COLLEGE

Assignee(s): TRUSTEES OF TUFTS COLEGE A K A TUFTS UNIV ; TRUSTEES OF TUFTS COLEGE ; TRUSTEES OF TUFTS COLLEGE ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; ENERGY US DEPARTMENT OF ; ENERGY US DEPARTMENT OF PO BOX ; NATIONAL INST ; NATIONAL INSTITUTES OF HEALTH ; NATIONAL INSTITUTES OF HEALTH (NIH) US DEPT OF HEALTH AND HUMAN SERVICES (DHHS) US GOVERNMENT ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALT

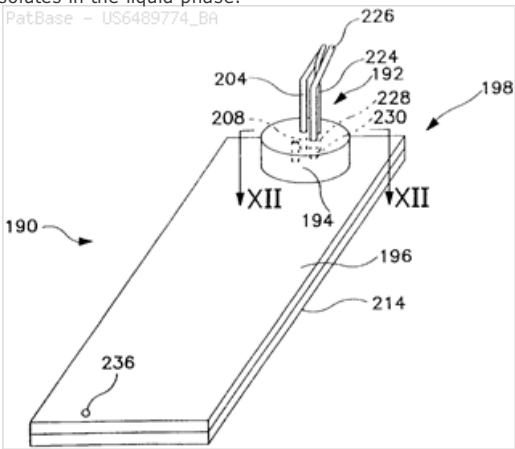
Inventor(s): (std): HEALEY BRIAN G ; WALT DAVID R

Title: Miniaturized device for ion analysis, and methods of use thereof

Abstract: A miniaturized ion analysis system with a contactless conductivity detection means is described for use in liquid phase sample analysis and detection. The device is formed by microfabrication of microstructures in novel support substrates. The detection means can be fabricated directly in the support body at the point of detection or other locations on the device or, alternatively, may be formed as part of a modular structure that is insertable into the device at the point of detection. In addition, a method is provided for analyzing ionic species present in a sample using the miniaturized ion analysis device. The invention herein is used for the analysis of ionic solutes in the liquid phase.

Classifications:

International (IPC 8-9): G01N27/447 (Advanced/Invention);
G01N27/447 (Core/Invention)
International (IPC 1-7): G01N27/02 G01N27/447
CPC: G01N27/4473 G01N27/44791
European: G01N27/447B3B G01N27/447C7
US: 324/439 324/441 324/443



Family:

Publication number	Publication date	Application number	Application date
DE10032873 A1	20010802	DE20001032873	20000706
US6489774 BA	20021203	US19990349862	19990708

Priority:

US19990349862 19990708

Probable Assignee: AGILENT TECHNOLOGIES INC

Assignee(s): (std): AGILENT TECHNOLOGIES INC

Assignee(s): AGILENT TECHNOLOGIES INC N D GES D STAATES DELAWA ; AGILENT TECHNOLOGIES INC N D GES D STAATES DELAWARE ; HEWLETT PACKARD CO

Inventor(s): (std): GOOR TOM A VAN DE ; KALTENBACH PATRICK ; VAN DE GOOR TOM A

Title: POLYMER AND NERVE GUIDE CONDUITS FORMED THEREOF

Abstract: Polymers comprising the subunit wherein R' is ethyl or butyl and R and R'' are any suitable side chain or cross link. Nerve guide conduits comprising this and other poly(phosphoesters) are also disclosed.

Classifications:

International (IPC 8-9): A61B17/11 C08G63/692

C08G79/04 (Advanced/Invention);

A61L27/18 C07K17/08 C08J9/28 (Advanced/Non-invention);

A61B17/03 C08G63/00 C08G79/00 (Core/Invention);

A61B17/00 A61F2/00 A61F2/04 A61L27/00 C07K17/00

C08J9/00 (Core/Non-invention)

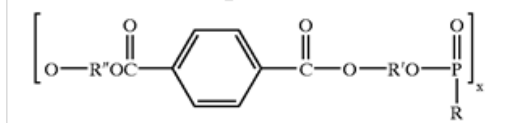
International (IPC 1-7): A61B17/08 C08G79/02

CPC: A61B17/1128 C08G63/6924 C08G79/04

European: A61B17/11N C08G63/692D C08G79/04

US: 528/400 606/152

PatBase - US2003060836_AA



Family:

Publication number	Publication date	Application number	Application date
SG125885 A1	20061030	SG20000007447	20001205
US2003060836 AA	20030327	US20010000297	20011204

Priority:

SG20000007447 20001205

Probable Assignee: AGENCY FOR SCIENCE TECHNOLOGY AND RESEARCH

Assignee(s): (std): AGENCY SCIENCE TECH AND RES ; LEONG KAM W ; WANG SHU ; WAN ANDREW C A ; YU HANRY ; UNIV SINGAPORE

Assignee(s): OF MATERIALS RESEARCH AND ENGINEERING INST ; WAN ANDREW CA ; NATIONAL UNIV ; NATIONAL UNIV OF SINGAPORE ; NATIONAL UNIVERSITY OF SINGAPORE ; AGENCY FOR SCIENCE TECHNOLOGY AND RESEARCH

Inventor(s): (std): LEONG KAM W ; WAN ANDREW C A ; WANG SHU ; YU HANRY

Inventor(s): WAN ANDREW CA

Title: BIODEGRADABLE IMPLANTABLE MEDICAL DEVICES, METHODS AND SYSTEMS

Abstract: The invention provides implantable intraluminal medical devices that are fabricated of biodegradable materials. The invention further provides methods of treatment utilizing the devices.

Classifications:

International (ipc 8-9): A61F2/00 A61F2/14 A61F9/00 A61K45/00 A61K47/32 A61K47/34 A61K9/00 A61K9/22 A61L27/44 A61L27/54 A61L31/06 A61M31/00 A61P27/02 C08F20/00 (Advanced/Invention); A61F2/00 A61F2/14 A61F9/00 A61K45/00 A61K47/32 A61K47/34 A61K9/00 A61L27/00 A61L31/04 A61P27/00 C08F20/00 (Core/Invention)

International (ipc 1-7): A61K31/436 A61K31/573 A61K9/00 A61L27/44

CPC: A61L2300/43 A61L2300/602 A61L2430/16 A61F2210/0004 A61L31/06 A61L31/148 A61K9/0051 A61L27/44 A61L27/54 A61L2300/252 A61L2300/406 A61L2300/41 A61L2300/416 A61L2300/604 A61L2300/606 A61F9/0017

European: A61F2/14 A61F9/00B2 A61K9/00M16B A61L27/44 A61L27/54 A61L31/06 A61L31/14K K61F9/00B2 K61L300/252 K61L300/406 K61L300/410 K61L300/416 K61L300/430 K61L300/602 K61L300/604 K61L300/606 K61L430/16

US: 424/426 424/426P 424/427 424/427P 424/428 424/428S 525/437 525/437S 604/206 604/264 604/270 604/294 604/506 604/521 604/891.1

PatBase - W006110487_A1

WO 2006/110487

PC1/US2006/12094

3/04



Fig. 1

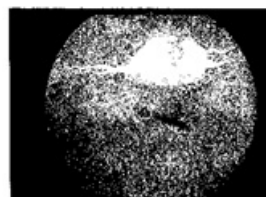


Fig. 2

Family:

Publication number	Publication date	Application number	Application date
CA2601864 AA	20070924	CA20062601864	20060407
CN101180086 A	20080514	CN200680017613	20060407
EP1868661 A1	20071226	EP20060740657	20060407
IN04461CN2007 A	20080125	IN2007CN04461	20071008
JP2008535847 T2	20080904	JP20080505535T	20060407
US2006018948 AA	20060126	US20050165993	20050624
US2006024350 AA	20060202	US20050165884	20050624
US2006110428 AA	20060525	US20050175850	20050705
US2006257451 AA	20061116	US20060399945	20060407
US2011159073 AA	20110630	US20100981038	20101229
US8003124 BB	20110823	US20060399945	20060407
US8454582 BB	20130604	US20100981038	20101229
WO06002366 A2	20060105	WO2005US22456	20050624
WO06002366 A3	20060316	WO2005US22456	20050624
WO06002399 A2	20060105	WO2005US22582	20050624
WO06002399 A3	20060316	WO2005US22582	20050624
WO06014484 A2	20060209	WO2005US23972	20050705
WO06014484 A3	20060622	WO2005US23972	20050705
WO06110487 A1	20061019	WO2006US12894	20060407

Priority:

US20040583171P 20040624	US20040585236P 20040702	US20050669701 20050407
US20050669701P 20050408	US20050165884 20050624	US20050165993 20050624
US20050175850 20050705	US20060399945 20060407	WO2006US12894 20060407
US20100981038 20101229		

Probable Assignee: SURMODICS INC

Assignee(s): (std): ANDERSON ARON B ; BEELEY NATHAN R ; BEELEY NATHAN R F ; CHAPPA RALPH A ; CHAPPA RALPH C ; GUIRE PATRICK E ; TATON KRISTIN S ; DEWITT DAVID M ; HERGENROTHER ROBERT W ; DE WITT DAVID M ; HERGENROTHER BOB ; SURMODICS INC ; DE JUAN EUGENE ; VARNER SIGNE E ; LAWIN LAURIE R ; WEN ; DEJUAN EUGENE ; FOX BEELEY NATHAN R ; WEN JIE

Inventor(s): (std): ANDERSON ARON B ; BEELEY NATHAN R ; BEELEY NATHAN R F ; CHAPPA RALPH A ; CHAPPA RALPH C ; DE JUAN EUGENE ; DE WITT DAVID M ; DEJUAN EUGENE ; BEELEY NATHAN ROBERT FOX ; DEWITT DAVID M ; EUGENE DEJUAN ; FOX BEELEY NATHAN R ; GUIRE PATRICK E ; HERGENROTHER BOB ; HERGENROTHER ROBERT W ; LAWIN LAURIE R ; TATON KRISTIN S ; VARNER SIGNE E ; WEN ; WEN JIE

Inventor(s): VARNER SIGNE ; TATON KRISTIN ; LAWIN LAURIE ; ANDERSON ARON ; HERGENROTHER ROBERT ; FOX BEELEY NATHAN ROBERT ; GUIRE PATRICK ; FOX BEELEY NATHAN ; CHAPPA RALPH ; DEWITT DAVID ; BEELEY NATHAN RF ; BEELEY NATHAN

Agent(s): DEETH WILLIAMS WALL LLP; KARRIE WEAVER, KAGAN BINDER PLLC; KARRIE WEAVER KAGAN BINDER PLLC; SCOTT PRIBNOW, KAGAN BINDER PLLC; SCOTT PRIBNOW KAGAN BINDER PLLC; KAGAN BINDER PLLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI

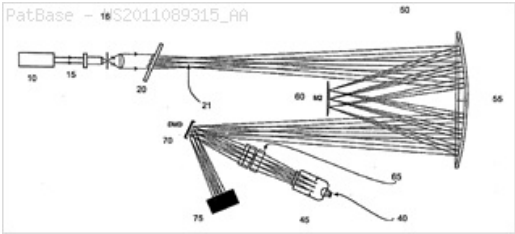
NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA
UG US UZ VC VN YU ZA ZM ZW

Title: OPTICAL ARRAY DEVICE AND METHODS OF USE THEREOF FOR SCREENING, ANALYSIS AND MANIPULATION OF PARTICLES

Abstract: Methods and devices are provided for the trapping, including optical trapping; analysis; and selective manipulation of particles on an optical array. A device parcels a light source into many points of light transmitted through a microlens optical array and an Offner relay to an objective, where particles may be trapped. Preferably the individual points of light are individually controllable through a light controlling device. Optical properties of the particles may be determined by interrogation with light focused through the optical array. The particles may be manipulated by immobilizing or releasing specific particles, separating types of particles, etc.

Classifications:

International (IPC 8-9): H01S1/00 (Advanced/Invention)
CPC: G02B17/0615 G02B17/0636 G21K1/006
European: G02B17/06A2 G02B17/06B2 G21K1/00N
US: 250/201.3 250/251 250/251P 250/458.1 250/458.100S 359/566 359/614 436/172 436/518



Family:

Publication number	Publication date	Application number	Application date
US2011089315 AA	20110421	US20080664340	20080625
US8338776 BB	20121225	US20080664340	20080625
WO09002537 A1	20081231	WO2008US07976	20080625

Priority:

US20070946100P 20070625 US20080664340 20080625 WO2008US07976 20080625

Probable Assignee: TUFTS UNIV

Assignee(s): (std): FAUSTOV ALEXEI R ; UNIV TUFTS ; WALT DAVID R

Assignee(s): NATIONAL INSTITUTES OF HEALTH ; NATIONAL INSTITUTES OF HEALTH (NIH) US DEPT OF HEALTH AND HUMAN SERVICES (DHHS) US GOVERNMENT ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALT ; NATIONAL INSTITUTES OF HEALTH NIH US DEPT OF HEALTH AND HUMAN SERVICES DHHS US GOVERNMENT ; TUFTS UNIV ; TUFTS UNIVERSITY

Inventor(s): (std): WALT DAVID R ; FAUSTOV ALEXEI R

Agent(s): BOZICEVIC FIELD AND FRANCIS LLP; PAMELA J; SHERWOOD PAMELA J

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: COATING REMOVAL SYSTEMS FOR OPTICAL FIBERS

Abstract: Coating removal systems for optical fibers are disclosed. Related methods and optical fibers processed with these methods and coating removal systems are also disclosed. An optical fiber includes a glass fiber, having a cladding and core, surrounded by a protective coating which does not contribute to the optical performance of the optical fiber. By removing the coating at an end portion of the optical fiber, the end portion may be precisely positioned and secured to enable reliable optical communications. A laser beam may be directed at the protective coating to remove the protective coating by one or more ablating, melting, vaporizing, and/or thermal decomposing processes. The optical fiber may also be optionally cleaved. In this manner, the coating may be efficiently removed while retaining at least fifty percent of the tensile strength of the optical fiber.

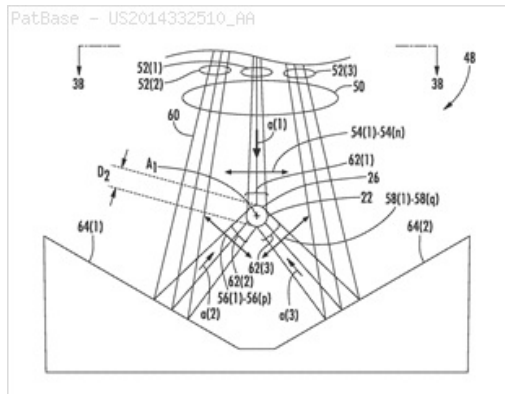
Classifications:

International (IPC 8-9): B23K26/02 B23K26/06 B23K26/08 B23K26/082 B23K26/36 B23K26/38 B23K26/40 G02B6/00 G02B6/02 G02B6/245 G02B6/25 G02B6/26 G02B6/36 G02B6/38 G02B6/44 (Advanced/Invention);

B23K26/06 B23K26/40 G02B6/38 (Advanced/Non-invention)

CPC: B23K26/38 B23K26/08 G02B6/25 G02B6/3833 G02B6/3855 G02B6/3863 G02B6/02395 G02B6/245 B23K26/0619 B23K26/064 B23K26/362 B23K26/40 B23K26/361 B23K2103/42 B23K2103/50

US: 1/1 219/121.69 219/121.72 219/121.73 219/121.8 264/400 385/43

**Family:**

Publication number	Publication date	Application number	Application date
AU2014202389 BA	20140828	AU20140202389	20140501
AU2014224075 AA	20141002	AU20140224075	20140911
AU2014224075 BB	20160519	AU20140224075	20140911
BR102014010875 A2	20151013	BR20141010875	20140506
CN204116658 U	20150121	CN201420228716U	20140506
EP2801851 A2	20141112	EP20140166889	20140502
EP2801851 A3	20150624	EP20140166889	20140502
EP2801851 B1	20180912	EP20140166889	20140502
IN01243DE2014 A	20151106	IN2014DE01243	20140508
JP2014238576 A2	20141218	JP20140095362	20140502
TW201502616 A	20150116	TW20140115968	20140505
TWI619978 B	20180401	TW20140115968	20140505
US2014332510 AA	20141113	US20140281980	20140520
US2015277048 AA	20151001	US20150737750	20150612
US8755654 BA	20140617	US20130891691	20130510
US9085047 BB	20150721	US20140281980	20140520
US9541705 BB	20170110	US20150737750	20150612

Priority:

US20130891691 20130510 AU20140202389 20140501 US20140281980 20140520
 AU20140224075 20140911 US20150737750 20150612

Probable Assignee: CORNING INC

Assignee(s): (std): CORNING INC ; CORNING OPTICAL COMM LLC ; CORNING OPTICAL COMMUNICATIONS LLC ; CORNING CABLE SYS LLC

Assignee(s): CORNING CABLE SYSTEMS LLC ; CORNING OPTICAL COMMUNICATION LLC

Inventor(s): (std): TIAN ZHAO XU ; ZHAOXU TIAN ; YEAKEL KIPP DAVID ; TOEPFER STEPHAN T ; TIAN ZHAOXU ; STEPHAN T TOEPFER ; ROBERT BRUCE ELKINS II ; MILLER DARRIN MAX ; KIPP DAVID YEAKEL ; JEFFREY DEAN DANLEY ; ELKINS ROBERT BRUCE II ; ELKINS II ROBERT BRUCE ; DARRIN MAX MILLER ; DANLEY JEFFREY DEAN

Agent(s): PHILLIPS ORMONDE FITZPATRICK; STURM CHRISTOPH; DESHIMARU TAKESHI; MATSUSHITA MITSURU; KURASAWA ICHIRO; WATANABE MAKOTO; KUMAKURA YOSHIO

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR