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U.S. DEPARTMENT OF

ORDINATION FORM COVER SHEET

United States Patent and Trademark Office

TRADEMARKS ONLY

Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):
ZYVEX CORPORATION

- Individual(s)
- General Partnership
- Corporation-State
- Other
- Association
- Limited Partnership

Additional name(s) of conveying parties attached? Yes No

3. Nature of conveyance/ Execution Date(s):

Execution Date(s): 09/29/2005

- Assignment
- Security Agreement
- Other:
- Merger
- Change of Name

2. Name and address of receiving party(ies):

Additional name(s) of conveying parties attached? Yes No

Name: **Silicon Valley Bank**
Internal Address: HF 154

Street Address: **3003 Tasman Drive**

City: **Santa Clara**
State: **CA**
Country **USA**
Zip: **95054**

- Association Citizenship
- General Partnership Citizenship
- Limited Partnership Citizenship
- Corporation Citizenship
- Other Citizenship

If assignee is not domiciled in the United States, a domestic representative designation is attached: Yes No
(Designations must be a separate document from assignment)

OFFICE OF PUBLIC RECORDS
2007 OCT 16 PM 2:18
FINANCE SECTION

4. Application number(s) or registration number(s) and identification or description of the Trademark:

A. Trademark Application No.(s)
78/319,671; 76/449,954; 76/449,950; 78/657,285
78/529,438; 75/910,497

B. Trademark Registration No.(s)
2,279,370; 2,952,239; 2,885,672; 2,981,400; 3,034,723;
2,926,622; 2,281,503; 2,474,096; 2,854,635; 2,859,445

C. Identification or Description of Trademark(s) (and Filing Date if Application or Registration Number is unknown): "see attached"

Additional sheets attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Silicon Valley Bank**
Internal Address: **UT 300**
Street Address: **4750 West 2100 South 3rd Floor**
City: **Salt Lake City** State: **UT** ZIP: **84120**
Phone Number: **(801) 977-3613**
Fax Number: **(801) 973-7976**
Email Address: **amdc@svbank.com**

6. Total number of applications and registrations involved: **16**

7. Total fee (37 CFR 2.6 (b)(6) & 3.41): **\$ 415 (Already Collected)**

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None Required (government interest not affecting title)

8. Payment Information:

- a. Credit Card Last 4 Numbers
Expiration Date
- b. Deposit Account Number
Authorized User Name

9. Signature *Clint Heaps*
Signature

10/6/06
Date

Clint Heaps

Name of Person Signing

Total number of pages including cover sheet, attachments, and document:

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement is entered into as of the Effective Date by and between SILICON VALLEY BANK ("Bank") and ZYVEX CORPORATION ("Grantor").

RECITALS

A. Bank has agreed to make certain advances of money and to extend certain financial accommodation to Grantor (the "Loans") in the amounts and manner set forth in that certain Loan and Security Agreement by and between Bank and Grantor dated the Effective Date (as the same may be amended, modified or supplemented from time to time, the "Loan Agreement"; capitalized terms used herein are used as defined in the Loan Agreement). Bank is willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in certain Copyrights, Trademarks, Patents, and Mask Works to secure the obligations of Grantor under the Loan Agreement.

B. Pursuant to the terms of the Loan Agreement, Grantor has granted to Bank a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

To secure its obligations under the Loan Agreement, Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under its Intellectual Property Collateral (including without limitation those Copyrights, Patents, Trademarks and Mask Works listed on Schedules A, B, C, and D hereto), and including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions continuations, renewals, extensions and continuations-in-part thereof.

This security interest is granted in conjunction with the security interest granted to Bank under the Loan Agreement. The rights and remedies of Bank with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to Bank as a matter of law or equity. Each right, power and remedy of Bank provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Bank of any one or more of the rights, powers or remedies provided for in this Intellectual Property Security Agreement, the Loan Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Bank, of any or all other rights, powers or remedies.

IN WITNESS WHEREOF, the parties have cause this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

ZYVEX CORPORATION

By: 

Title: CFo + Secretary

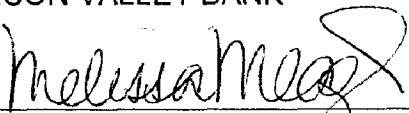
Address of Grantor:

1321 N. Plano Road
Plano, TX 75081

Attn: _____

BANK:

SILICON VALLEY BANK

By: 

Title: Relationship Manager

Address of Bank:

14185 N. Dallas Parkway, Suite 780
Centura Tower
Dallas, TX 75254

Attn: _____

EXHIBIT A

Copyrights

Description

Registration/
Application
Number

Registration/
Application
Date

None

EXHIBIT B

Patents

Description

Registration/
Application
Number

Registration/
Application
Date

See Attached

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline | Status Information |
|---------------------|---------|---|--------------------------------|---|---------|-------------|--|
| P001JUS 34003.3 | Closed | Method and System for Self-Replicating Manufacturing Stations | Merle, Parker, Skidmore | Filed: 05/17/2000 AppNo: 09/589330 | Granted | MAINTENANCE | Issued Patent Number 6410359 Issue Date: 01/21/2003 1st Maintenance Fee due 07/21/2006 - to be paid timely |
| P001W0 34003.8 | Closed | Method and System for Self-Replicating Manufacturing Stations | Merle, Parker, Skidmore | Filed: 05/10/2001 AppNo: PCT/US01/40719 Published: 11/15/2001 PubNo: 200198361 | Closed | | Filed National Phase Applications in China, Europe, Japan, and Korea |
| P001CN 34003.4 | Closed | Method and System for Self-Replicating Manufacturing Stations | Merle, Parker, Skidmore | Filed: 05/10/2001 AppNo: 01810882.2 Published: 07/06/2005 PubNo: 1636169 | Closed | | Abandoned per Client instructions 11/29/2005 |
| P001EP 34003.5 | Foreign | Method and System for Self-Replicating Manufacturing Stations | Merle, Parker, Skidmore | Filed: 05/10/2001 AppNo: 01935776.3 Published: 02/05/2003 PubNo: 1281108 | Granted | MAINTENANCE | Issued Patent Number 1281108 Issue Date: 07/20/2005 |
| P001GB 34003.167 | | | | | | | Great Britain Annuity due 05/10/2007 French Annuity due 05/10/2007 German Annuity due 05/10/2007 Awaiting annuity receipts for 2006 |
| P001FR 34003.166 | | | | | | | |
| P001DE 34003.165 | | | | | | | |
| P001JP 34003.6 | Closed | Method and System for Self-Replicating Manufacturing Stations | Merle, Parker, Skidmore | Filed: 05/10/2001 AppNo: 2001583249 Published: 11/05/2003 PubNo: 2003533059 | Closed | | Abandoned per Client instructions 11/29/2005 |
| P001KR 34003.7 | Foreign | Method and System for Self-Replicating Manufacturing Stations | Merle, Parker, Skidmore | Filed: 05/10/2001 AppNo: 10-2002-7014969 | Granted | MAINTENANCE | Issued Patent Number 550817 Issue Date: 02/03/2006 Annuity due 02/03/2009 |
| P002US 34003.9 | Closed | Humps Process | Skidmore | | Closed | | Closed per client |
| P003US 34003.10 | US | System and Method for Coupling Micro-Components | Ellis (972-792-1614), Skidmore | Filed: 05/17/2000 AppNo: 09/570170 | Granted | MAINTENANCE | Issued Patent Number 6372795 Issue Date: 01/06/2004 |
| P003W0 34003.11 | Closed | System and Method for Coupling Micro-Components | Ellis, Skidmore | Filed: 05/10/2001 AppNo: PCT/US01/15059 Published: 11/15/2001 PubNo: 200185599 | Closed | | 1st Maintenance Fee due 07/06/2007 Abandoned per client |
| P004US 34003.12 | US | Gripper and Complementary Handle for Use with Microcomponents | Parker, Skidmore | Filed: 05/17/2000 AppNo: 09/589329 | Granted | MAINTENANCE | Issued Patent Number 6398280 Issue Date: 06/04/2002 2nd Maintenance Fee due 12/04/2009 |
| P004W0 34003.13 | Closed | Gripper and Complementary Handle for Use with Microcomponents | Parker, Skidmore | Filed: 05/10/2001 AppNo: PCT/US01/15011 Published: 11/15/2001 PubNo: 200185401 | Closed | | Abandoned per client |

U.S. 10,359

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline Review | Status Information |
|--------------------|---------|---|--|---|---------|-----------------|---|
| P005US 34003.14 | US | System and Method for Constraining Totally Released Microcomponents | Ellis (972-792-1614), Parker, Skidmore | Filed: 07/14/2000 AppNo: 09/616500 | Granted | MAINTENANCE | Issued Patent Number [REDACTED] 25 Issue Date: 01/13/2004 1st Maintenance Fee due 07/13/2007 |
| P005WO 34003.19 | Closed | System and Method for Constraining Totally Released Microcomponents | Ellis, Parker, Skidmore | Filed: 07/12/2001 AppNo: PCT/US01/21899 Published: 01/24/2002 PubNo: 2002061652 | Closed | | Filed National Phase Applications in China, Europe, Japan, and Korea |
| P005CN 34003.15 | Foreign | System and Method for Constraining Totally Released Microcomponents | Ellis (972-792-1614), Parker, Skidmore | Filed: 07/12/2001 AppNo: 01812786 X Published: 09/10/2003 PubNo: 1441749 | Allowed | STABLE | Awaiting issued patent Annuity due 07/12/2006 - to be timely filed |
| P005EP 34003.16 | Foreign | System and Method for Constraining Totally Released Microcomponents | Ellis (972-792-1614), Parker, Skidmore | Filed: 07/12/2001 AppNo: 01961048.6 Published: 01/24/2002 PubNo: 1345843 | Pending | STABLE | Awaiting further office action Annuity due 07/31/2006 - to be timely filed |
| P005JP 34003.17 | Foreign | System and Method for Constraining Totally Released Microcomponents | Ellis (972-792-1614), Parker, Skidmore | Filed: 07/12/2001 AppNo: 2002512060 Published: 02/12/2004 PubNo: 2004504172 | Pending | DORMANT | Awaiting further office action |
| P005KR 34003.18 | Foreign | System and Method for Constraining Totally Released Microcomponents | Ellis (972-792-1614), Parker, Skidmore | Filed: 07/12/2001 AppNo: 10-2003-7000550 | Granted | MAINTENANCE | Issued Patent Number 539137 Issued date: 12/20/2005 Annuity due 12/20/2008 |
| P006US 34003.20 | US | System and Method for Post-Fabrication Reduction of Minimum Feature Size Spacing of Microcomponents | Ellis (972-792-1614), Parker, Skidmore | Filed: 06/19/2001 AppNo: 09/884205 not scheduled for publication | Pending | DORMANT | Awaiting further office action |
| P007US 34003.21 | US | Ribbon Cable and Electrical Connector for Use with Microcomponents | Skidmore, Ellis (972-792-1614) | Filed: 05/11/2000 AppNo: 09/569328 | Granted | MAINTENANCE | Issued Patent Number [REDACTED] 16 Issue Date: 01/13/2004 1st Maintenance Fee due 07/13/2007 |
| P007WO 34003.22 | Closed | Ribbon Cable and Electrical Connector for Use with Microcomponents | Skidmore, Ellis | Filed: 05/10/2001 AppNo: PCT/US01/15032 Published: 11/15/2001 PubNo: 2001866692 | Closed | | Abandoned per client |
| P008US 34003.23 | US | System and Method for Coupling Microcomponents Utilizing a Pressure Fitting Receptacle | Ellis (972-792-1614), Skidmore | Filed: 08/21/2000 AppNo: 09/643011 | Granted | MAINTENANCE | Issued Patent Number [REDACTED] 15 Issue Date: 05/13/2003 1st Maintenance Fee due 11/13/2006 - to be timely filed |
| P008WO 34003.24 | Closed | System and Method for Coupling Microcomponents Utilizing a Pressure Fitting Receptacle | Ellis, Skidmore | Filed: 08/01/2001 AppNo: PCT/US01/24173 Published: 02/28/2002 PubNo: 2002162255 | Closed | | Abandoned per client |
| P009US 34003.25 | Closed | Rationally Designed Artificial Binding Sites | Halls | | Closed | | Closed per client |
| P010US 34003.26 | Closed | Ordered Surface-Bound Catalyzed Reaction Pathways | Halls, Von Ehr II | | Closed | | Closed per client |
| P011VI 34003.27 | Closed | Cyclodextrin Mediated Soft Cutting of Single-Walled Carbon Nanotubes | Chen, Dyer | Filed: 05/17/2001 AppNo: 60/291101 | Closed | | Filed as Utility Application |

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline Review | Status Information |
|-------------------|--------|---|---|---|---------|-----------------|---|
| P011US | US | System and Method for Manipulating Nanotubes | Chen, Dyer | Filed: 07/11/2002 AppNo: 100044317 | Granted | MAINTENANCE | Issued Patent Number: [REDACTED] Issue Date: 04/20/2004 |
| P011USDIV | US | System and Method for Manipulating Nanotubes | Chen, Dyer | Filed: 12/10/2003 AppNo: 10732490 Published: 06/24/2004 PubNo: 20040120879 | Pending | DORMANT | 1st Maintenance Fee due 10/20/2007 Awaiting initial office action |
| P012US | Closed | Molecular Structure Having a Controllably Relational Portion | Zhang | Filed: 10/05/2001 AppNo: 09/972118 | Closed | | Client authorized abandonment 05/25/2003 |
| P013US | US | System and Method for Controlling Deposition Parameters in Producing a Surface to Tune the Surface's | Weimer | Filed: 05/10/2001 AppNo: 09/862992 Published: 02/06/2003 PubNo: 20030026900 | Granted | MAINTENANCE | Issued Patent Number: [REDACTED] Issue Date: 01/04/2005 |
| P013CP1 | Closed | System and Methods for Detection of Low Concentrations of Molecules Using Surface Enhanced Raman Spectroscopy | Weimer | Filed: 11/12/2003 AppNo: 10/706735 Published: 05/20/2004 PubNo: 20040096981 | Closed | | 1st Maintenance Fee due 07/04/2008 Abandoned per Client instructions 09/09/2005 As of 09/09/2005, Client contacted inventor to offer him the opportunity to proceed with prosecution. |
| P013WC | Closed | System and Method for Controlling Deposition Parameters in Producing a Surface to Tune the Surface's Plasmon Resonance Wavelength | Weimer | Filed: 05/08/2002 AppNo: PCT/US0214700 Published: 11/14/2002 PubNo: 2002090849 | Closed | | Abandoned per Client instructions |
| P014US | US | System and Method for Precise Positioning of Microcomponents | Ellis (972-792-1814), Skidmore | Filed: 08/17/2001 AppNo: 09/8932489 Published: 11/27/2003 PubNo: 20030219220 | Granted | MAINTENANCE | Issued Patent Number: [REDACTED] Issue Date: 01/13/2004 |
| P014WC | Closed | System and Method for Precise Positioning of Microcomponents | Ellis, Skidmore | Filed: 08/15/2002 AppNo: PCT/US0225820 Published: 02/27/2003 PubNo: 2003016206 | Closed | | 1st Maintenance Fee due 07/13/2007 Abandoned per Client |
| P015US | US | System and Method for Handling Microcomponent Parts for Performing Assembly of Micro-Devices | Mercanzini | Filed: 12/28/2001 AppNo: 10/034495 | Granted | MAINTENANCE | Issued Patent Number: [REDACTED] Issue Date: 12/06/2005 |
| P015USCON | Closed | System and Method for Handling Microcomponent Parts for Performing Assembly of Micro-Devices | Mercanzini | Filed: 05/25/2005 AppNo: 11/137099 | Closed | | 1st Maintenance Fee due 06/06/2009 Abandoned Per Client instructions 11/28/2005 |
| P016US | US | System and Method for Positional Movement of Microcomponents | Mercanzini | Filed: 12/28/2001 AppNo: 10/033011 | Granted | MAINTENANCE | Issued Patent Number: [REDACTED] Issue Date: 06/08/2004 |
| P017V1 | Closed | Microcomponents and Applications Thereof | Sarkar, Gaisberger, Ellis | Filed: 08/16/2001 AppNo: 60/312706 | Closed | | Filed as Utility Application |
| P017US | US | Fully Released MEMS XYZ Flexure Stage with Integrated Capacitive Feedback | Sarkar, Gaisberger (972-792-1650), Ellis (972-792-1614) | Filed: 08/14/2002 AppNo: 10/219044 | Granted | MAINTENANCE | Issued Patent Number: [REDACTED] Issue Date: 10/19/2004 |
| P018US | Closed | Zybot Platform | Dyer | | Closed | | 1st Maintenance Fee due 04/19/2008 Closed per client |
| P019US | Closed | Manipulating Micro-Scale Devices | Dyer | | Closed | | Closed per client |
| P020US | Closed | Micro-Mechanical Local-Force Clamping Fastener | Dyer | | Closed | | Closed per client |
| P020US | Closed | Micro-Mechanical Local-Force Clamping Fastener | Dyer | | Closed | | Closed per client |

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline Review | Status Information |
|------------------------|--------|--|-----------------------------------|--|---------|-----------------|---|
| P021US 34003 42 | US | Manipulation System for Manipulating a Sample Under Study with a Microscope | Dyer, Bray, Yu | Filed: 06/17/2002 AppNo: 10/173542 | Granted | MAINTENANCE | Issued Patent Number [REDACTED] Issue Date: 1/22/2005 |
| P021WO 34003 78 | Closed | Manipulation System for Manipulating a Sample Under Study with a Microscope | Dyer, Bray, Yu | Filed: 05/29/2003 AppNo: PCT/US03/16695 Published: 12/24/2003 PubNo: 2003107065 | Closed | | 1st Maintenance Fee due 05/22/2009 Filed National Phase applications in China, Japan, S. Korea, Europe (DE, GB, FR) |
| P021CN 34003 132 | Closed | Manipulation System for Manipulating a Sample Under Study with a Microscope | Dyer, Bray, Yu | Filed: 05/29/2003 AppNo: 03814146.9 Published: 08/12/2005 PubNo: 1662838 | Closed | | Abandoned per Client instructions 1/28/2005 |
| P021EU 34003 133 | Closed | Manipulation System for Manipulating a Sample Under Study with a Microscope | Dyer, Bray, Yu | Filed: 05/29/2003 AppNo: 03736728.1 Published: 04/06/2005 PubNo: 1520200 | Closed | | Abandoned per Client instructions 1/28/2005 Response to Office Action due 06/08/2006 - awaiting client's confirmation of abandonment |
| P021JP 34003 134 | Closed | Manipulation System for Manipulating a Sample Under Study with a Microscope | Dyer, Bray, Yu | Filed: 05/29/2003 AppNo: 2004513823 | Closed | | Abandoned per Client instructions 1/28/2005 |
| P021KR 34003 135 | Closed | Manipulation System for Manipulating a Sample Under Study with a Microscope | Dyer, Bray, Yu | Filed: 05/29/2003 AppNo: 70208572004 Published: 03/07/2005 PubNo: 2198772005 | Closed | | Abandoned per Client instructions 1/28/2005 |
| P022US 34003 43 | Closed | Molecular Structure Comprising Terminal Diethylene and Terminal Reactive Functional Group | Chai | Filed: 12/31/2001 AppNo: 10039079 | Closed | | Abandoned per Client instructions 11/06/2003 |
| P023US 34003 44 | US | System and Method for Latching a Micro-Structure and a Process for Fabricating a Micro-Latching Structure | Geisberger (972-792-1650) | Filed: 02/07/2002 AppNo: 100071772 Published: 02/20/2003 PubNo: 20030034193 | Granted | MAINTENANCE | Issued Patent Number [REDACTED] Issue Date: 09/09/2003 |
| P023US/DIV 34003 93 | Closed | System and Method for Latching a Micro-Structure and a Process for Fabricating a Micro-Latching Structure | Geisberger | Filed: 07/02/2003 AppNo: 100612473 | Closed | | 1st Maintenance Fee due 03/09/2007 Abandoned per Client instructions 04/05/2005 |
| P024US 34003 45 | US | System and Method for Robust and Efficient Resizing of Simple Polygons | Udeshti (972-792-1646) | Filed: 02/22/2002 AppNo: 100600984 | Granted | MAINTENANCE | Issued Patent Number [REDACTED] Issue Date: 11/09/2004 |
| P025US 34003 46 | US | System and Method for Gap Stabilization in Scanning Probe Microscopes | Baur | Filed: 06/27/2002 AppNo: 10184181 | Granted | MAINTENANCE | Issued Patent Number [REDACTED] Issue Date: 08/19/2003 |
| P026US 34003 47 | US | Cascaded Bimorph Rotary Actuator (based off P017V1) | Sarkar, Geisberger (972-792-1650) | Filed: 06/05/2002 AppNo: 10163331 | Granted | MAINTENANCE | Issued Patent Number [REDACTED] Issue Date: 03/02/2004 |
| P027US 34003 48 | US | System and Method for Microstructure Positioning Using Metal Yielding | Sarkar, Geisberger (972-792-1650) | Filed: 06/28/2002 AppNo: 10184492 | Granted | MAINTENANCE | Issued Patent Number [REDACTED] Issue Date: 04/13/2004 |
| P028US 34003 49 | US | System and Method for Fabricating Microcomponent Parts on a Substrate Having Pre-Fabricated Electronic Circuitry Thereon | Skidmore | Filed: 06/12/2002 AppNo: 10167939 | Granted | MAINTENANCE | 1st Maintenance Fee due 10/13/2007 Issued Patent Number [REDACTED] Issue Date: 07/13/2004 |

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline Review | Status Information |
|-----------------------|--------|---|--|---|---------|-----------------|---|
| P029US 34003.50 | Closed | System and Method for Modeling Fabrication | Randall | | Closed | | Closed per client |
| P030US 34003.51 | US | Electrothermal Quadrupole Microactuator | Elis (972-792-1614) | Filed: 01/31/2002 AppNo: 10061775 | Granted | MAINTENANCE | Issued Patent Number. [REDACTED] Issue Date: 01/20/2004 1st Maintenance Fee due 07/20/2007 |
| P031US 34003.52 | Closed | Molecular Rotor | Zhang | | Closed | | Closed per client |
| P032US 34003.53 | US | Efficient Data Structure | Parker, Client Appointed Contact: Udesni - 972-792-1646) | Filed: 11/27/2002 AppNo: 10/306464 not scheduled for publication | Pending | DORMANT | Awaiting further office action Per DH, Client may decide to file Continuation at later date (01/25/2006) |
| P033US 34003.54 | US | Nano-Manipulation by Gyration | Stalcup II (972-792-1619), Baur | Filed: 10/07/2003 AppNo: 100690339 | Granted | MAINTENANCE | Issued Patent Number. [REDACTED] Issue Date: 11/02/2004 1st Maintenance Fee due 05/02/2008 |
| P034US 34003.55 | US | System and Method for Fixing and Placing of Nanoscale Objects Utilizing Differences in Chemical and Physical Binding Forces | Baur, Stalcup II (972-792-1619) | Filed: 10/10/2003 AppNo: 10064120 Published: 04/14/2005 PubNo: 20050077466 | Granted | MAINTENANCE | Issued Patent Number. [REDACTED] Issue Date: 01/17/2006 1st Maintenance Fee due 01/17/2009 |
| P035US 34003.56 | US | Self-Actuating Connector for Coupling Microcomponents | Randall (972-792-1648), Elis (972-792-1614) | Filed: 05/24/2002 AppNo: 100154685 | Granted | MAINTENANCE | Issued Patent Number. [REDACTED] Issue Date: 01/04/2005 1st Maintenance Fee due 07/04/2008 Client does not wish to proceed with Divisional |
| P035US/DV 34003.99 | Closed | Self-Actuating Connector for Coupling Microcomponents | Randall, Elis | | Closed | | |
| P037US 34003.57 | US | Directional Assembly of Carbon Nanotube Stings | Chen, Von Ehr II (972-792-1611) | Filed: 01/02/2002 AppNo: 100038102 Published: 12/25/2003 PubNo: 20030234465 | Granted | MAINTENANCE | Issued Patent Number. [REDACTED] Issue Date: 05/03/2005 1st Maintenance Fee due 11/03/2008 Abandoned per Client instructions 07/16/2003 |
| P037WO 34003.58 | Closed | Directional Assembly of Carbon Nanotube Stings | Chen, Von Ehr II | Filed: 12/20/2002 AppNo: PCT/US02/40789 Published: 07/24/2003 PubNo: 2003050208 | Closed | | |
| P038US 34003.59 | Closed | Microgripper Having Linearly Actuated Grasping Mechanisms | Elis | Filed: 04/26/2002 AppNo: 100133936 Published: 10/30/2003 PubNo: 20030201654 | Closed | | Abandoned per Client instructions 11/29/2005 |
| P039US 34003.60 | US | Process for Fabricating Microcomponents that Enable Electrical Isolation | Stidmore, Magel Roberts | Filed: 10/07/2002 AppNo: 100266724 not scheduled for publication | Pending | DORMANT | Awaiting further office action |
| P040US 34003.61 | US | Microcomponent Having Intra-layer Electrical Isolation with Mechanical Robustness | Stidmore, Geisberger (972-792-1650), Elis (972-792-1614) | Filed: 10/07/2002 AppNo: 100266726 | Granted | MAINTENANCE | Patent Number. [REDACTED] Issue Date: 04/12/2005 1st Maintenance Fee due 10/12/2008 |
| P041US 34003.62 | Closed | Molecular Memory | Von Ehr II | | Closed | | Closed per client |
| V042.0 34003.68 | Closed | System and Method for Dissolution of Nanotubes | Chen, Liu | Filed: 05/02/2002 AppNo: 60/377856 | Closed | | Filed as Utility Application |

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline Review | Status Information |
|------------------------|---------|--|---|--|---------|-----------------|--|
| P042JUS 34003 67 | Closed | Polymer and Method for Using the Polymer for Solubilizing Nanotubes | Chen, Liu | Filed: 09/24/2002 AppNo: 10/255122 Published: 02/19/2004 PubNo: 20040034177 | Closed | | Abandoned per Client |
| P042USCON 34003 118 | US | University of Pittsburgh Polymer and Method for Using the Polymer for Solubilizing Nanotubes | Chen, Liu | Filed: 07/20/2004 AppNo: 10/895161 Published: 12/30/2004 PubNo: 20040266939 | Pending | DORMANT | Awaiting initial office action |
| P042CN 34003 63 | Foreign | University of Pittsburgh Polymer and Method for Using the Polymer for Solubilizing Nanotubes | Chen, Liu | Filed: 04/29/2003 AppNo: 03136785.2 Published: 12/24/2003 PubNo: 1482767 | Allowed | STABLE | Awaiting issued patent Annuity due 04/29/2007 awaiting receipt for 2006 payment |
| P042EP 34003 64 | Foreign | University of Pittsburgh Polymer and Method for Using the Polymer for Solubilizing Nanotubes | Chen, Liu | Filed: 05/01/2003 AppNo: 03252761.6 Published: 11/05/2003 PubNo: 1359121 | Pending | STABLE | Awaiting further office action Annuity due 05/01/2007 Awaiting annuity receipt for 2006 |
| P042JP 34003 65 | Foreign | Polymer and Method for Using the Polymer for Solubilizing Nanotubes | Chen, Liu | Filed: 05/02/2003 AppNo: 2003127132 Published: 01/08/2004 PubNo: 2004002850 | Pending | DORMANT | Awaiting further office action |
| P042KR 34003 66 | Foreign | University of Pittsburgh Polymer and Method for Using the Polymer for Solubilizing Nanotubes | Chen, Liu | Filed: 05/02/2003 AppNo: 200329184 | Pending | DORMANT | Awaiting further office action |
| P042TW 34003 94 | Closed | University of Pittsburgh Polymer and Method for Using the Polymer for Solubilizing Nanotubes | Chen | Filed: 07/10/2003 AppNo: TBD | Closed | | Abandoned per Client instructions 08/18/2003 |
| V043 0 34003 74 | Closed | System and Method for Functionalization of Nanotube Surfaces | Chen, Liu, Weimer, Halls, Waldeck, Walker | Filed: 05/02/2002 AppNo: 60/377920 | Closed | | Filed as Utility Application Awaiting corrected filing receipt |
| P043US 34003 73 | US | University of Pittsburgh Polymer and Method for Using the Polymer for Noncovalently Functionalizing Nanotubes | Chen, Liu | Filed: 12/13/2002 AppNo: 10/318730 | Granted | MAINTENANCE | Patent Number: [REDACTED] Issued: 08/14/2005 |
| P043USCON 34003 119 | US | University of Pittsburgh Polymer and Method for Using the Polymer for Noncovalently Functionalizing Nanotubes | Chen, Liu | Filed: 07/20/2004 AppNo: 10/894738 Published: 01/05/2006 PubNo: 20060002841 | Pending | DORMANT | 1st Maintenance Fee due 12/14/2008 Awaiting initial office action |
| P043CN 34003 69 | Foreign | Polymer and Method for Using the Polymer for Noncovalently Functionalizing Nanotubes | Chen, Liu | Filed: 04/29/2003 AppNo: 03136786.0 Published: 07/28/2004 PubNo: 1515598 | Allowed | URGENT | Grant fee and annuity due 04/04/2005 - Awaiting client's instructions/authorization of budget estimate |
| P043EP 34003 70 | Foreign | University of Pittsburgh Polymer and Method for Using the Polymer for Noncovalently Functionalizing Nanotubes | Chen, Liu | Filed: 05/01/2003 AppNo: 03252762.4 Published: 11/19/2003 PubNo: 1359169 | Pending | STABLE | Awaiting further office action Annuity due 05/01/2007 Awaiting annuity receipt for 2006 |
| P043JP 34003 71 | Foreign | Polymer and Method for Using the Polymer for Noncovalently Functionalizing Nanotubes | Chen, Liu | Filed: 05/02/2003 AppNo: 2003127114 Published: 01/08/2004 PubNo: 2004002849 | Pending | DORMANT | Awaiting further office action |
| P043KR 34003 72 | Foreign | Polymer and Method for Using the Polymer for Noncovalently Functionalizing Nanotubes | Chen, Liu | Filed: 05/02/2003 AppNo: 200329185 | Pending | DORMANT | Awaiting further office action |

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline Review | Status Information |
|-------------------------|---------|---|--|--|---------|-----------------|--|
| P043TW 34003.95 | Closed | Polymer and Method for Using the Polymer for Noncovalently Functionalizing Nanotubes <i>University of Pittsburgh</i> | Chen, Liu | Filed: 07/10/2003 AppNo: 92118896 | Closed | | Abandoned per Client instructions 08/18/2003 |
| P044US 34003.75 | US | Modular Manipulation System for Manipulating a Sample Under Study with a Microscope | Dyer, Bray, Yu | Filed: 06/17/2002 AppNo: 10/173543 | Granted | MAINTENANCE | Issued Patent Number: [REDACTED] Issue Date: 05/10/2005 1st Maintenance fee due 11/10/2008 |
| P044USCON 34003.121 | US | Modular Manipulation System for Manipulating a Sample Under Study with a Microscope | Dyer, Bray, Yu | Filed: 08/31/2004 AppNo: 10/951650 Published: 02/10/2005 PubNo: 20050029467 | Allowed | DORMANT | Awaiting further office action |
| P044WO 34003.76 | Closed | Modular Manipulation System for Manipulating a Sample Under Study with a Microscope | Dyer, Bray, Yu | Filed: 05/29/2003 AppNo: PCT/US03/16750 Published: 12/24/2003 PubNo: 2003107066 | Closed | | Filed National Phase applications in China, Japan, S. Korea, Europe (DE, GB, FR) |
| P044CN 34003.136 | Foreign | Modular Manipulation System for Manipulating a Sample Under Study with a Microscope | Dyer, Bray, Yu | Filed: 05/29/2003 AppNo: 03814150.7 Published: 08/31/2005 PubNo: 1662839 | Pending | DORMANT | Awaiting initial office action |
| P044EP 34003.137 | Foreign | Modular Manipulation System for Manipulating a Sample Under Study with a Microscope | Dyer, Bray, Yu | Filed: 05/29/2003 AppNo: 03734223.5 Published: 03/22/2005 PubNo: 1516220 | Pending | CRITICAL | Annuity due 05/31/2006 - to be timely paid Response to Examination Report due 06/06/2006 - awaiting instructions/comments from client and budget approval |
| P044JP 34003.138 | Foreign | Modular Manipulation System for Manipulating a Sample Under Study with a Microscope | Dyer, Bray, Yu | Filed: 05/29/2003 AppNo: 2004513824 PubNo: P2005530311 | Pending | CRITICAL | Request for Examination due 05/29/2006 - awaiting authorization from Client and approval of budget from Client |
| P044KR 34003.139 | Foreign | Modular Manipulation System for Manipulating a Sample Under Study with a Microscope | Dyer, Bray, Yu | Filed: 05/29/2003 AppNo: 70206672004 Published: 03/07/2005 PubNo: 219902005 | Pending | STABLE | Request for Examination due 05/29/2006 |
| P045US 34003.80 | US | Storing Mechanical Potential in a MEMS Device Using Mechanically Multi-Stable Mechanism | Gaisberger, Ellis 1650), Ellis (972-792-1614) | Filed: 09/10/2002 AppNo: 100238319 not scheduled for publication | Granted | DORMANT | Patent Number: [REDACTED] Issue Date: 03/14/2006 |
| V046US 34003.81 | Closed | Laterally-Actuated Tunable Capacitor with Locking Mechanism | Goldsmit, Ellis Gaisberger, Nilsen | Filed: 07/08/2002 AppNo: 607344451 | Closed | | Awaiting issued patent Filed as Utility Application |
| P046US 34003.82 | Closed | Laterally-Actuated Tunable Electronic Device | Goldsmit, Ellis Gaisberger, Nilsen | Filed: 12/03/2002 AppNo: 102503926 | Closed | | Abandoned per Client instructions 05/18/2004 |
| V047.0 34003.84 | Closed | System and Method for Processing Data Stored in DAG Octree Data Structure | Parker, Udeshi | | Closed | | Closed per client |
| P047US - A 34003.83 | US | System and Method for Processing DAG Octree | Parker, Udeshi (972-792-1646) | Filed: 10/21/2003 AppNo: 10698178 Published: 06/10/2004 PubNo: 20040111406 | Pending | DORMANT | Awaiting initial office action |
| P047WO - A 34003.130 | Closed | System and Method for Processing DAG Octree | Parker, Udeshi | Filed: 10/27/2004 AppNo: PCT/US2004/35625 Published: 05/19/2005 PubNo: 2005045785 | Closed | | Abandoned per Client's instructions 01/23/2006 |
| P047US - B 34003.100 | US | Iso-surface Extraction into Spatial Hierarchy | Parker, Udeshi (972-792-1646) | Filed: 12/21/2003 AppNo: 10749286 Published: 08/19/2004 PubNo: 20040162839 | Pending | DORMANT | Awaiting initial office action |

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline Review | Status Information |
|-------------------------|---------|--|--|--|---------|-----------------|---|
| P047WO - B 34003 141 | Closed | iso-surface Extraction Inno Spial Hierarchy | Parker, Udeshi (972-792-1646) | Filed: 12/30/2004 AppNo: PC71US04/43833 Published: 07/21/2005 PubNo: 2005066901 | Closed | | Client authorized Abandonment 10/31/2005 |
| V048 0 34003 86 | Closed | System and method for Cutting Tissues | Yu | Filed: 11/19/2002 AppNo: 60/427692 | Closed | | Client authorized abandonment 10/16/2003 |
| P048US 34003 85 | Closed | System and method for Cutting Tissues | Yu | — | Closed | | Client authorized closure 10/16/2003 |
| V049 0 34003 88 | Closed | Tissue Micro-Chip | Yu | Filed: 11/19/2002 AppNo: 60/427621 | Closed | | Client authorized abandonment 10/16/2003 |
| P049US 34003 87 | Closed | Tissue Micro-Chip | Yu | — | Closed | | Client authorized closure 10/16/2003 |
| V050 0 34003 89 | Closed | System for Manipulating a Sample Under Study with a Microscope | Khoury, Chew, Yu, Kim, Baur, Stalcup II, Tham, Bray | Filed: 01/22/2003 AppNo: 60/441787 | Closed | | Client authorized abandonment 11/12/2003 |
| P051US 34003 90 | US | Electro-Thermal Scratch Drive Actuator | Sarikar, Gaisberger (972-792-1650), Ellis (972-792-1614) | Filed: 11/21/2003 AppNo: 10/719286 | Granted | MAINTENANCE | Patent Number [REDACTED] Issue Date: 04/12/2005 1st Maintenance Fee due 10/12/2008 Abandoned per Client 10/11/2004 - no interest in utility or international filings |
| V052 0 34003 91 | Closed | Method of Generating a Tetrahedral Mesh from Voxel Data | Udeshi | Filed: 11/26/2003 AppNo: 60/525425 | Closed | | Abandoned per Client 10/11/2004 - no interest in utility or international filings |
| P053US 34003 92 | US | Stiction Resistant Release Process | Gory (972-792-1674), Gnade, Manizba | Filed: 10/07/2003 AppNo: 10/680021 Published: 04/07/2005 PubNo: 20050074913 | Pending | DORMANT | Awaiting further office action |
| V054 0 34003 79 | Closed | Nanoidde Polymer Composites and their Applications | Chen, Rajagopal | Filed: 05/22/2003 AppNo: 60/472820 | Closed | | Provisional expired PCT and Utility Application filed |
| P054US 34003 114 | US | Nanomaterial Polymer Composites And Processes Therefor | Chen, Rajagopal | Filed: 05/21/2004 AppNo: 10/850721 Publication delayed for security review | Pending | DORMANT | Awaiting initial office action |
| P054WO 34003 115 | Closed | Nanocomposites and Method for Production | Chen, Rajagopal | Filed: 05/21/2004 AppNo: PCT/US04/16226 Published: 12/09/2004 PubNo: 2004106420 | Closed | | Filed National Phase Applications in China, Japan, Korea and United Kingdom |
| P054CN 34003 170 | Foreign | Nanocomposites and Method for Production | Chen, Rajagopal | Filed: 05/21/2004 AppNo: 200480018160.3 | Pending | CRITICAL | Petition for Examination due 05/22/2006 - awaiting authorization to proceed and approval of budget |
| P054JP 34003 171 | Foreign | Nanocomposites and Method for Production | Chen, Rajagopal | Filed: 05/21/2004 AppNo: TBD | Pending | STABLE | Awaiting filing receipt Petition for Examination due 05/21/2007 |
| P054KR 34003 172 | Foreign | Nanocomposites and Method for Production | Chen, Rajagopal | Filed: 05/21/2004 AppNo: 7022271/2005 | Pending | DORMANT | Request for Examination due 05/21/2009 |

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline Review | Status Information |
|---------------------|---------|---|---|--|------------|-----------------|---|
| P054UK 34003.173 | Foreign | Nanocomposites and Method for Production | Chen, Rajagopal | Filed: 05/21/2004 AppNo: 05237516 | Pending | DORMANT | Awaiting initial office action |
| P055US 34003.77 | US | Microcomponent Interconnection Utilizing Post-Assembly Activation | Nilsen, Ellis (972-792-1614), Goldsmith, Lee, Huang, Nallari, Kim, Skidmore | Filed: 07/10/2003 AppNo: 10/616735 not scheduled for publication | Pending | DORMANT | Awaiting further office action |
| P056US 34003.96 | US | MEMS Device Having Compact Actuator | Sarkar, Geisberger (972-792-1650) | Filed: 01/22/2004 AppNo: 10/762948 Published: 07/28/2005 PubNo: 20050161751 | Pending | URGENT | Restriction/Election Response due 04/08/2006 - awaiting instructions/comments from Client and budget approval. |
| P057US 34003.97 | Closed | Thermal Plastic Deformation Of RF MemS Devices | Sarkar, Geisberger | Filed: 05/20/2004 AppNo: 10/650904 | Closed | | Abandoned per Client instructions 11/28/2005 |
| V058US 34003.98 | Closed | Method, System and Device for Microscope Examination Employing Fib-Prepared Sample Grasping Element | Skidmore, Ellis, Geisberger, Tuck, Bray, Chiew, Folan | Filed: 09/23/2003 AppNo: 60/5505026 | Closed | | Provisional expired PCT and Utility Application filed |
| P058US 34003.122 | US | Method, System and Device for Microscope Examination Employing Fib-Prepared Sample Grasping Element | Skidmore, Ellis (972-792-1614), Geisberger (972-792-1650), Tuck (972-792-1604), Bray, Folan | Filed: 09/23/2004 AppNo: 10/846385 Published: 08/18/2005 PubNo: 20050178980 | Pending | CRITICAL | Response to Office Action due 05/24/2006 - Awaiting instructions/comments from Client/inventor and awaiting budget approval |
| P058WO 34003.123 | Foreign | Method, System and Device for Microscope Examination Employing Fib-Prepared Sample Grasping Element | Skidmore, Ellis (972-792-1614), Geisberger (972-792-1650), Tuck (972-792-1604), Bray, Folan | Filed: 09/23/2004 AppNo: PCT/US04/31482 Published: 04/07/2005 PubNo: 2005031789 | Pending | STABLE | National Phase Chapter II due 03/23/2006 - national cases to be timely filed in China, Europe (GB, DE, FR), Japan and S. Korea. |
| P058CN 34003.175 | Foreign | Method, System and Device for Microscope Examination Employing Fib-Prepared Sample Grasping Element | Skidmore, Ellis (972-792-1614), Geisberger (972-792-1650), Tuck (972-792-1604), Bray, Folan | | Disclosure | | to be timely filed |
| P058EP 34003.176 | Foreign | Method, System and Device for Microscope Examination Employing Fib-Prepared Sample Grasping Element | Skidmore, Ellis (972-792-1614), Geisberger (972-792-1650), Tuck (972-792-1604), Bray, Folan | | Disclosure | | to be timely filed |
| P058JP 34003.177 | Foreign | Method, System and Device for Microscope Examination Employing Fib-Prepared Sample Grasping Element | Skidmore, Ellis (972-792-1614), Geisberger (972-792-1650), Tuck (972-792-1604), Bray, Folan | | Disclosure | | to be timely filed |
| P058KR 34003.178 | Foreign | Method, System and Device for Microscope Examination Employing Fib-Prepared Sample Grasping Element | Skidmore, Ellis (972-792-1614), Geisberger (972-792-1650), Tuck (972-792-1604), Bray, Folan | | Disclosure | | to be timely filed |

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline Review | Status Information |
|------------------------|---------|---|--|--|---------|-----------------|---|
| P059US 34003.101 | US | Mem Microconnectors and Non-Powered Microassembly Therewith | Tsui (972-792-1662), Geisberger (972-792-1650), Skidmore | Filed: 02/13/2004 AppNo: 10/778460 Published: 08/18/2005 PubNo: 20050181656 | Granted | MAINTENANCE | Issued Patent Number [REDACTED] Issued: 08/02/2005 1st Maintenance Fee due 02/02/2009 |
| P059USCJP 34003.148 | US | Sockets for Microassembly | Tsui (972-792-1662), Geisberger (972-792-1650) | Filed: 03/08/2005 AppNo: 11/074448 Published: 08/18/2005 PubNo: 20050181636 | Allowed | DORMANT | Awaiting issued patent |
| P059CN 34003.149 | Foreign | Mem Microconnectors and Non-Powered Microassembly Therewith | Tsui (972-792-1662), Geisberger (972-792-1650), Skidmore | Filed: 02/07/2005 AppNo: 200510062813.4 Published: 08/17/2005 PubNo: 1654310 | Pending | STABLE | Request for Examination due 02/13/2007 |
| P059EP 34003.150 | Foreign | Mem Microconnectors and Non-Powered Microassembly Therewith | Tsui (972-792-1662), Geisberger (972-792-1650), Skidmore | Filed: 02/10/2005 AppNo: 05002767.1 Published: 08/17/2005 PubNo: 1564183 | Pending | STABLE | Annuly due 02/28/2007 Awaiting initial office action |
| P059JP 34003.151 | Foreign | Mem Microconnectors and Non-Powered Microassembly Therewith | Tsui (972-792-1662), Geisberger (972-792-1650), Skidmore | Filed: 02/14/2005 AppNo: 200535386 | Pending | STABLE | Request for Examination due 02/14/2008 |
| P059KR 34003.152 | Foreign | Mem Microconnectors and Non-Powered Microassembly Therewith | Tsui (972-792-1662), Geisberger (972-792-1650), Skidmore | Filed: 02/11/2005 AppNo: 0011600/2005 | Pending | STABLE | Request for Examination due 02/11/2010 |
| P059CNCJP 34003.179 | Foreign | Mem Microconnectors and Non-Powered Microassembly Therewith | Tsui (972-792-1662), Geisberger (972-792-1650) | Filed: 03/08/2006 AppNo: Iba | Pending | STABLE | Awaiting filing receipt Request for Examination due 03/08/2009 |
| P059EPCJP 34003.180 | Foreign | Mem Microconnectors and Non-Powered Microassembly Therewith | Tsui (972-792-1662), Geisberger (972-792-1650) | Filed: 03/08/2006 AppNo: Iba | Pending | STABLE | Awaiting filing receipt |
| P059JPCJP 34003.181 | Foreign | Mem Microconnectors and Non-Powered Microassembly Therewith | Tsui (972-792-1662), Geisberger (972-792-1650) | Filed: 03/08/2006 AppNo: 2006-062097 | Pending | STABLE | Awaiting filing receipt Request for Examination due 03/08/2009 |
| P059KRCJP 34003.182 | Foreign | Mem Microconnectors and Non-Powered Microassembly Therewith | Tsui (972-792-1662), Geisberger (972-792-1650) | Filed: 03/08/2006 AppNo: Iba | Pending | STABLE | Awaiting filing receipt Request for Examination due 03/08/2011 |
| V060US 34003.103 | Closed | Positioning Device for Microscopic Motion | Baur, Bray | Filed: 02/20/2004 AppNo: 60/546352 | Closed | | Filed Utility and International applications (US, CN, EP, JP, KR, and TW) |
| P060US 34003.129 | US | Positioning Device for Microscopic Motion | Baur, Bray | Filed: 02/18/2005 AppNo: 11/061076 Published: 08/29/2005 PubNo: 20050184623 | Pending | STABLE | Response to office action due 03/19/2006 - Instructions for response and budget received 03/13/2006 |
| P060CN 34003.124 | Closed | Positioning Device for Microscopic Motion | Baur, Bray | Filed: 02/18/2005 AppNo: 200510009393.3 Published: 09/28/2005 PubNo: 1673067 | Closed | | Abandoned per Client instructions 11/29/2005 |

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline Review | Status Information |
|---------------------|---------|---|--|--|---------|-----------------|---|
| P060EP 34003 125 | Closed | Positioning Device for Microscopic Motion | Baur, Bray | Filed: 02/08/2005 AppNo: 05250932.2 Published: 09/14/2005 PubNo: 1574282 | Closed | | Abandoned per Client instructions 11/29/2005 |
| P060JP 34003 126 | Closed | Positioning Device for Microscopic Motion | Baur, Bray | Filed: 02/21/2005 AppNo: 200543465 | Closed | | Abandoned per Client instructions 11/29/2005 |
| P060KR 34003 127 | Closed | Positioning Device for Microscopic Motion | Baur, Bray | Filed: 02/18/2005 AppNo: 00134982/2005 | Closed | | Abandoned per Client instructions 11/29/2005 |
| P060TW 34003 128 | Closed | Positioning Device for Microscopic Motion | Baur, Bray | Filed: 02/05/2005 AppNo: 94104097 Published: 09/16/2005 PubNo: 200531420 | Closed | | Abandoned per Client instructions 11/29/2005 |
| P061US 34003 104 | US | Thermal Interface Incorporating Nanotubes | Von Ehr II (972-792-1611) | Filed: 10/15/2004 AppNo: 10/967002 | Pending | STABLE | Awaiting initial office action |
| P061CN 34003 168 | Foreign | Thermal Interface Incorporating Nanotubes | Von Ehr II (972-792-1611) | Filed: 10/14/2005 AppNo: TBD | Pending | DORMANT | Awaiting filing receipt. Request for Examination due 10/15/2007 |
| P061TW 34003 169 | Foreign | Thermal Interface Incorporating Nanotubes | Von Ehr II (972-792-1611) | Filed: 10/12/2005 AppNo: 94135572 | Pending | DORMANT | Request for Examination due 10/12/2008 |
| V062US 34003 105 | Closed | Simple Diamond Mechanosynthesis Tool and its Method of Manufacture | Fritas | Filed: 02/11/2004 AppNo: 60/543802 | Closed | | Utility Application filed/No foreign per Client Assignment not received from Inventor |
| P062US 34003 153 | US | Simple Tool For Positional Diamond Mechnosynthesis, And Its Method Of Manufacture | Fritas | Filed: 02/11/2005 AppNo: 11/056567 not scheduled for publication | Pending | DELAY | Awaiting initial Office action. Awaiting documents from Client for IDS - reminder to Client sent 02/16/2006 |
| V063US 34003 106 | Closed | No Impulse Piezo Driven Rotary Motor | Bray | Filed: 06/03/2004 AppNo: 60/576555 | Closed | | Abandoned per Client 03/2/2005 |
| P064US 34003 107 | US | Polymers For Enhanced Solubility Of Nanomaterials, Compositions And Methods Thereof | Al-Haddou (972-792-1636), Rutkowsky (972-792-1634) | Filed: 09/18/2004 AppNo: 10/920877 Published: 02/23/06 PubNo: 20060041104 | Pending | DORMANT | Awaiting further office action |
| P065US 31144 7 | US | System and Method for Interfacing Cellular Matter with a Machine | Caulier (972-883-2436), Nilsen (214-405-0524) | Filed: 12/19/2003 AppNo: 10/741136 Published: 06/23/2005 PubNo: 20050137652 | Pending | DORMANT | Awaiting initial office action |
| V066US 34003 109 | Closed | Methods For The Synthesis Of Modular Poly (Phenyleneethylenes) And Fine Tuning The Electronic Properties Thereof For The Functionalization Of Nanomaterials | Al-Haddou (X236), Rutkowsky (X234) | Filed: 04/13/2004 AppNo: 60/561562 | Closed | | Utility and PCT filed 04/13/2005 |
| P066US 34003 163 | US | Methods For The Synthesis Of Modular Poly (Phenyleneethylenes) And Fine Tuning The Electronic Properties Thereof For The Functionalization Of Nanomaterials | Al-Haddou (972-792-1636), Rutkowsky (972-792-1634) | Filed: 04/13/2005 AppNo: 11/105078 publication scheduled for 03/16/2006 | Pending | DORMANT | Awaiting initial Office Action |

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline Review | Status Information |
|--------------------------|---------|---|---|--|------------|-----------------|---|
| P066W/O 34003 159 | Foreign | Methods For The Synthesis Of Modular Poly (Phenyleneethylenes) And Fine Tuning The Electronic Properties Thereof For The Functionalization Of Nanomaterials | Ali-Haddou (972-792-1636), Rukokosky (972-792-1634) | Filed: 04/13/2005 AppNo: PCT/US05/12717 Published: 10/27/2005 PubNo: 2005100466 | Pending | STABLE | Awaiting International Preliminary Report on Patentability National Phase Chapter II due 10/13/2006 |
| P067J/US 34003 110 | US | Compact Microcolumn For Automated Assembly | Saini (972-792-1666), Jandric (972-792-1612) | Filed: 03/12/2004 AppNo: 10/799836 Published: 09/15/2005 PubNo: 20050199821 | Allowed | DORMANT | Awaiting issued Patent Awaiting Acceptance of 2nd 312 Amendments |
| P067J/US/CP 34003 120 | US | MEMS Based Charged Particle Detector Design | Saini (972-792-1666), Jandric (972-792-1612), Tuggle | Filed: 11/12/2004 AppNo: 10/981871 Published: 09/15/2005 PubNo: 20050199822 | Granted | MAINTENANCE | Issued Patent Number: 6890275 Issued: 10/18/2005 1st Maintenance Fee due 04/18/2009 |
| P066U/S 34003 111 | US | Polymerization from the surface of CNTs-PPE platform (the grafting form approach): Preparation of Nanocomposites | Ali-Haddou (972-792-1636), Rukokosky (972-792-1634) | | Disclosure | STABLE | Released from ON HOLD status 02/28/2006 Application in preparation |
| V069U/S 34003 112 | Closed | Automated And Semi-Automated Probing In A Charged Particle Beam Device | Stalcup II, Baur, Folaron, Nelson, Bray, Foster | Filed: 02/23/2004 AppNo: 60/546840 | Closed | | Filed Utilities and International applications (US, CN, EP, JP, KR) |
| P066U/S-A 34003 140 | US | Charged Particle Beam Device Probe Operation | Stalcup II (972-792-1619), Baur, Folaron, Nelson (972-792-1651), Foster, Hartman (972-792-2878) | Filed: 02/23/2005 AppNo: 11/064127 Publication delayed for pre-exam review | Pending | DORMANT | Awaiting Initial Office Action |
| P066U/S-B 34003 154 | US | Probe Current Imaging | Baur, Stalcup II (972-792-1619) | Filed: 02/23/2005 AppNo: 11/063692 Published: 08/25/2005 PubNo: 20050184236 | Pending | DORMANT | Awaiting Initial Office Action |
| P066U/S-C 34003 155 | US | Probe Tip Processing | Baur, Stalcup II (972-792-1619), Hartman (972-792-2878) | Filed: 02/23/2005 AppNo: 11/064131 Published: 08/25/2005 PubNo: 20050184208 | Pending | DORMANT | Awaiting Initial Office Action |
| P066C/N 34003 143 | Foreign | Automated And Semi-Automated Probing In A Charged Particle Beam Device | Stalcup II (972-792-1619), Baur, Folaron, Nelson (972-792-1651), Foster, Hartman (972-792-2878) | Filed: 02/23/2005 AppNo: 200510078948.3 Published: 11/16/2005 PubNo: 1696652 | Pending | STABLE | Petition for Examination due 02/23/2007 |
| P069E/P 34003 144 | Foreign | Automated And Semi-Automated Probing In A Charged Particle Beam Device | Stalcup II (972-792-1619), Baur, Folaron, Nelson (972-792-1651), Foster, Hartman (972-792-2878) | Filed: 02/23/2005 AppNo: 05251070.8 Published: 08/24/2005 PubNo: 1566647 | Pending | STABLE | Annuity due 02/23/2007 Awaiting initial office action Dave Hoffman reviewing claim set for possible future amendments prior to March 31, 2006 |

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline Review | Status Information |
|---------------------|---------|---|--|--|------------|-----------------|--|
| P069JP 34003.145 | Foreign | Automated And Semi-Automated Probing In A Charged Particle Beam Device | Stalcup II (972-792-1619), Baur, Folan, Nelson (972-792-1651), Foster, Hartman (972-792-2878) | Filed: 02/23/2005 AppNo: 200546523 Published: 09/15/2005 PubNo: P2005251745 | Pending | STABLE | Petition for Examination due 02/23/2008 |
| P069KR 34003.146 | Foreign | Automated And Semi-Automated Probing In A Charged Particle Beam Device | Stalcup II (972-792-1619), Baur, Folan, Nelson (972-792-1651), Foster, Hartman (972-792-2878) | Filed: 02/23/2005 AppNo: 014990/2005 | Pending | STABLE | Petition for Examination due 02/23/2010 |
| V070US 34003.113 | Closed | Patterned Atomic Layer Epitaxy | Randall, Peng, Liu, Skidmore, Baur, Stalcup II, Folan | Filed: 03/26/2004 AppNo: 60/556614 | Closed | | Utility filed 03/25/2005 No foreign, per Client. |
| P070US 34003.157 | US | Patterned Atomic Layer Epitaxy | Randall (972-792-1648), Peng (972-792-1602), Liu, Skidmore, Baur, Stalcup II (972-792-1619), Folan | Filed: 03/25/2005 AppNo: 11/089814 Published: 10/13/2005 PubNo: 20050223968 | Pending | DORMANT | Awaiting initial Office action |
| V071US 34003.116 | Closed | Calibration Systems and Techniques for Automated Microassembly | Tsui, Geisberger | Filed: 06/25/2004 AppNo: 60/583272 | Closed | | Filed as Utility 07/06/2004 International filing not available |
| P071US 34003.117 | US | Calibration Systems and Techniques for Automated Microassembly | Tsui (972-792-1662), Geisberger (972-792-1650) | Filed: 07/06/2004 AppNo: 10/884904 Published: 01/12/2006 PubNo: 20060005602 | Pending | STABLE | Response to Office Action due 05/01/2006 - received authorization and budget approval 02/15/2006 |
| P072US 34003.131 | Closed | Methods For The Synthesis Of Modular Poly (Phenyleneethylenes) And Fine Tuning The Electronic Properties Thereof For The Functionalization Of | Al-Haddou | | Closed | | Closed per Client 06/30/2005 |
| P073US 34003.156 | US | Apparatus And Methods Of Manufacturing And Assembling Microscale And Nanoscale Components And Assemblies | Nolan (972-792-1629) | Filed: 05/18/2005 AppNo: 11/131760 publication scheduled for 09/18/2006 | Pending | CRITICAL | Awaiting initial Office Action, International Filing due 05/18/2006 |
| P074US 34003.158 | US | Nanoprobing, Nanopositioning, and Nanomanipulation on a Chip | Sarkar | | Disdiscuse | DELAY | Application draft in review by inventor. |
| P075US 34003.164 | US | Multifunctional CNT/Polymer Complex Composites | Chen, Balasubramanyam (334-332-9872), Patel (972-792-1610) | | Disdiscuse | STABLE | Released from ON HOLD status 02/28/2006 Application in preparation |

| Reference Numbers | Type | Title | Inventor(s) | Filing and Publication Information | Status | Deadline Review | Status Information |
|----------------------|--------|--|------------------------|---|--------|-----------------|---|
| P076US 34003.183 | US | Mass Spec Apparatus | Verbeck (972-792-XXXX) | --- | | STABLE | Application in preparation |
| PXXXXUS 34003.147 | US | 4 DOF Actuator | Unknown | --- | Closed | | Closed per client - application opened and closed before "P" number assigned. |
| G001US 34003.108 | Closed | THIRD PARTY PRIOR ART SUBMISSION: Bistable Microelectromechanical System Based Structures, Systems and Methods | --- | Filed: 05/10/2002 AppNo: 10063762 Published: 11/13/2003 PubNo: 20030210115 | Closed | | 3rd Party Prior Art Submission filed 01/06/2004 Noted as received by the USPTO |

EXHIBIT C

Trademarks

Description

Registration/
Application
Number

Registration/
Application
Date

See Attached

| Country | Mark/File No. | App. No./ Reg. No. | App. Date/ Reg. Date | Class(es) | Goods/Services | Status |
|---------|-------------------------------------|-------------------------|--------------------------|-----------|--|--|
| US | ASSEMBLING TOMORROW (34007.3) | 75/538,844 2,279,370 | 08/19/1998 09/21/1999 | 9 | Computer software for molecular modeling, computer aided design and computer aided manufacturing all in the field of nanotechnology. | REGISTERED 09/21/2009 - Renewal Due. |
| US | KENTERA K026US (34007.48) | | | | | ABANDONED 04/27/2005 - Per client instructions. |
| US | MECHTITLE K023US (34007.44) | 78/319671 | 10/28/2003 | 9, 42 | Laboratory robots for use in the field of nanotechnology; mechanisms for grasping, rotating, moving and assembling nanotechnology components; microscale assemblers; nanoscale assemblers; macroscale assemblers; nanotechnology research tools and nanotechnology equipment and attachments to same for manipulation and/or characterization of nanotechnology materials, namely grippers, clamps, nanomechanical probes, probes, actuators and related attachments for microscopes, and nanomanipulators; microassembly systems comprised of mechanisms for grasping, rotating, moving and assembling microscale components for microelectromechanical systems fabrication. (Class 9) Custom manufacture of nanotechnology components, assemblers and nano, macro and micro devices for others. (Class 40) | PENDING 04/11/2006 - Awaiting acceptance of Statement of Use. |
| US | MEMULATOR K012US (34007.4) | 76/357,953 2,952,239 | 01/11/2002 05/17/2005 | 9 | Providing information via the Internet on the subject of nanotechnology; design and testing for new product development; design for others in the field of nanotechnology; research and development for new products for others in the field of nanotechnology; scientific research; technical consultation and research in the field of nanotechnology; scientific research and development for others in the field of nanotechnology; design for others in the field of nanotechnology components, assemblers and nano, macro and micro devices. (Class 42) | REGISTERED 05/17/2010 - 05/17/2011 - Section 8 & 15 due. 05/17/2015 - Section 8 & 9 renewal due. |

| Country | Mark/File No. | App. No./ Reg. No. | App. Date/ Reg. Date | Class(es) | Goods/Services | Status |
|---------|--|-------------------------|--------------------------|--------------------|---|--|
| US | MISCELLANEOUS DESIGN K018US (34007 21) | 76/450,096 2,885,672 | 9/16/2002 09/21/2004 | 16, 40, 41 & 42 | Printed matter namely, papers, articles and books in the field of nanotechnology (Class 16); Custom manufacture of nanotechnology components, assemblers and nano, macro and micro devices for others (Class 40); Development and dissemination of educational materials for others in the field of nanotechnology; electronic publishing services, namely, publication of text and graphic works of others via the Internet featuring information in the field of nanotechnology (Class 41) Providing information via the Internet on the subject of nanotechnology; design and testing for new product development; design for others in the field of nanotechnology; research and development for new products for others; scientific research; technical consultation and research in the field of nanotechnology; scientific research and development of equipment, processes, and applications for others in the field of nanotechnology; design and construction of nanotechnology components, assemblers and nano, macro and micro devices (Class 42) | REGISTERED 09/21/2009 - 09/21/2010 Section 8 & 15 due. 09/21/2014 Section 8 & 9 Renewal due. |
| US | MISCELLANEOUS DESIGN K019US (34007 20) | 76/449,954 | 9/16/2002 | 9 & 42 | Laboratory robots for use in the field of nanotechnology; mechanisms for grasping, rotating, moving and assembling nanotechnology components; microscope assemblers; nanoscale assemblers; macroscale assemblers; nanotechnology research tools and nanotechnology equipment and attachments to same for manipulation and/or characterization of nanotechnology materials, namely grippers, clamps, nanomechanical probes, probes, actuators and related attachments for microscopes, and nanomanipulators; microassembly systems comprised of mechanisms for grasping, rotating, moving and assembling microscale components for microelectromechanical systems fabrication (Class 9); Design and testing of new products for others; licensing of intellectual property; development of new technology for others in the field of nanotechnology (Class 42) | ALLOWED 05/01/2006 - Awaiting Certificate of Registration. |
| US | NANOCONECTOR K014US (34007 5) | 76/449,950 | 9/16/2002 | 9 | Nanotechnology equipment and attachments to same for manipulation and/or characterization of nanotechnology materials | ABANDONED 07/23/2003 - Abandoned per Client instructions. |
| US | NANOEFFECTOR K015US (34007 6) | 76/449,952 2,981,400 | 09/16/2002 08/02/2005 | 9 | Nanotechnology equipment and attachments to same for manipulation and/or characterization of nanotechnology materials, namely grippers, micromechanical probes, probes. | REGISTERED 08/02/2010 - 08/02/2011 - Section 8 & 15 due. |
| US | NANOLOCK K030US (34007 51) | 78/657,285 | 6/23/2005 | 9 | Nanoscale assemblers, mezoscale assemblers, and microscale assemblers; nanoscale assembly systems, mezoscale assembly systems, and microassembly systems comprised of mechanisms for grasping, rotating, moving, attaching, and assembling nanoscale, mezoscale, and microscale components for nanoelectromechanical, mezolectromechanical, and microelectromechanical systems fabrication; nanotechnology devices for the manipulation, fabrication, or characterization of nanotechnology materials, namely actuators, grippers, clamps, and probes; mezoscale, microscale, and nanoscale instrumentation and equipment for measuring, processing, fabricating, or characterizing mezoscale, microscale, nanoscale, molecularscale, and atomiscale components, materials, or mechanisms, including mini mass spectrometers, mini scanning electronic microscopes (SEMs), mini-neutron-generators, and mini materials characterization systems. | PENDING 07/26/2006 - Response to Office Action due. |

| Country | Mark/File No. | App. No./ Reg. No. | App. Date/ Reg. Date | Class(es) | Goods/Services | Status |
|---------|---|-------------------------|--------------------------|-----------|---|--|
| US | NANOSOLVE K025US (34007.46) | 78/440.733 3,034,723 | 6/24/2004 12/27/2005 | 1 | Chemical additives and enhanced materials applied to nanotubes, nanoparticles, carbon or boron nitride fibers, carbon or boron nitride ropes, carbon or boron nitride ribbons, carbon or boron nitride fibrils, carbon or boron nitride needles, graphite platelets, nanodots, other fullerene materials, and host materials or solvents; chemical preparations for use with commercial polymers for use in the manufacture or production of a wide variety of goods; processed, functionalized, or enhanced nanotubes, nanoparticles, carbon or boron nitride fibers, carbon or boron nitride ropes, carbon or boron nitride ribbons, carbon or boron nitride fibrils, carbon or boron nitride needles, graphite platelets, nanodots, all for use in the manufacture or production of a wide variety of goods. | REGISTERED 12/27/2010 - 12/27/2011 - Section 8 & 15 due. |
| US | NANOWORKS K013US (34007.10) | 76/449.951 2,926,622 | 09/16/2002 02/15/2005 | 9 | Laboratory robots for use in the field of nanotechnology; mechanisms for grasping, rotating, moving and assembling nanotechnology components; microscale assemblers; nanoscale assemblers; macroscale assemblers; nanotechnology research tools, namely grippers, clamps, nanomechanical probes, probes, actuators positioners, drivers and related attachments and tools for microscopes, and nanomanipulators. | REGISTERED 02/15/2010 - 02/15/2011 - Section 8 & 15 due. 02/15/2015 - Section 8 & 9 renewal due. |
| US | PROMAS K028US (34007.49) | ... | ... | ... | ... | ABANDONED 04/27/2005 - Per client instructions. |
| US | PROVIDING NANOTECHNOLOGY SOLUTIONS - TODAY K029US (34007.50) | 78/539.438 | 12/29/2004 | 1,9 | Chemical additives and enhanced materials applied to nanotubes, nanoparticles, carbon or boron nitride fibers, carbon or boron nitride ropes, carbon or boron nitride ribbons, carbon or boron nitride fibrils, nanodots, other fullerene materials, and host materials or solvents; chemical preparations for use with commercial polymers for use in the manufacture or production of a wide variety of goods; processed, functionalized, or enhanced nanotubes, nanoparticles, carbon or boron nitride fibers, carbon or boron nitride ropes, carbon or boron nitride ribbons, carbon or boron nitride fibrils, carbon or boron nitride needles, graphite platelets, nanodots, other fullerene materials, and for use in the manufacture or production of a wide variety of goods. (Class 1); Laboratory robots for use in the field of nanotechnology; mechanisms for grasping, rotating, moving and assembling nanotechnology components; microscale assemblers; nanoscale assemblers; macroscale assemblers; nanotechnology research tools and nanotechnology equipment and attachments to same for manipulation and/or characterization of nanotechnology materials, namely grippers, clamps, micromechanical probes, nanomechanical probes, probes, actuators, positioners, drivers, and related attachments and tools for microscopes and nanomanipulators; microassembly systems, and nanoassembly systems comprised of mechanisms for grasping, rotating, moving and assembling microscale and noscale components for microelectromechanical systems fabrication and assembly. (Class 9) | PENDING 07/08/2006 - Awaiting Office Action. |
| US | ROTAPOD (34007.11) | K003US 75/910.497 | 1/28/2000 | 9 | Mechanism for grasping, rotating, moving, and assembling nanotechnology components | ABANDONED 02/17/2004 - Abandoned per Client instructions. |

| Country | Mark/File No. | App. No./ Reg. No. | App. Date/ Reg. Date | Class(es) | Goods/Services | Status |
|---------|---------------------------------------|-------------------------|--------------------------|-----------|---|---|
| US | SNAP-STAK K024US (34007.45) | 76/538662 | 12/10/2003 | 9 | Laboratory robots for use in the field of nanotechnology; mechanisms for grasping, rotating, moving and assembling nanotechnology components; microscale assemblers; nanoscale assemblers; macroscale assemblers; nanotechnology research tools and nanotechnology equipment and attachments to same for manipulation and/or characterization of nanotechnology materials, namely grippers, clamps, micromechanical probes, nanomechanical probes, probes, actuators, positioners, drivers, and related attachments and tools for microscopes, and nanomanipulators; microassembly systems; and nanoscale systems comprised of mechanisms for grasping, rotating, moving and assembling microscale and nanoscale components for microelectromechanical systems fabrication and assembly (Class 42) | ABANDONED 01/18/2005 - Abandoned per Client instructions. |
| US | ZYBOT K004US (34007.13) | 75/910,520 | 1/28/2000 | 9 | Robots for use in the field of nanotechnology | ABANDONED 02/17/2004 - Abandoned per Client instructions. |
| US | ZYMA K006US (34007.14) | 76/268,722 | 6/6/2001 | 9 | Computer software for molecular modeling, computer aided design and computer aided manufacturing all in the field of nanotechnology | ABANDONED 02/08/2004 - Abandoned per Client instructions. |
| US | ZYMA K022US (34007.43) | 76/268,722 | 6/6/2001 | 9 | Computer software for molecular modeling, computer aided design and computer aided manufacturing | ABANDONED Abandoned per client instructions. |
| US | ZYRIC K005US (34007.15) | 76/268,721 | 6/6/2001 | 9 | Computer software for molecular modeling, computer aided design and computer aided manufacturing all in the field of nanotechnology | ABANDONED 07/23/2003 - Abandoned per Client instructions. |
| US | ZYVEX K000US (34007.16) | 75/538,845 2,281,503 | 08/19/1998 09/28/1999 | 9 | Computer software for molecular modeling, computer aided design and computer aided manufacturing all in the field of nanotechnology | REGISTERED 09/28/2009 - Renewal due. |
| US | ZYVEX and Design K002US (34007.17) | 75/622,594 2,474,096 | 01/14/1999 07/31/2001 | 9 & 41 | Computer software for molecular modeling, computer aided design and computer aided manufacturing all in the field of nanotechnology (Class 9); scientific research and development for others in the field of nanotechnology (Class 42) | REGISTERED 07/31/2006-07/31/2007 Section 8 & 15 due 07/31/2011 - Section 8 & 9 renewal due. |
| US | ZYVEX K016US (34007.18) | 76/449,953 2,854,635 | 09/16/2002 06/15/2004 | 9 & 42 | Laboratory robots for use in the field of nanotechnology; mechanisms for grasping, rotating, moving and assembling nanotechnology components; microscale assemblers; nanoscale assemblers; macroscale assemblers; nanotechnology research tools and nanotechnology equipment and attachments to same for manipulation and/or characterization of nanotechnology materials, namely grippers, clamps, micromechanical probes, nanomechanical probes, probes, actuators, positioners, drivers, and related attachments and tools for microscopes, and nanomanipulators; microassembly systems comprised of mechanisms for grasping, rotating, moving and assembling microscale and nanoscale components for microelectromechanical systems fabrication and assembly (Class 9); Design and testing of new products for others; licensing of intellectual property; development of new technology for others in the field of nanotechnology (Class 42) | REGISTERED 06/15/2009 - 06/15/2010 Section 8 & 15 due 06/15/2014 - Section 8 & 9 renewal due. |

| Country | Mark/File No. | App. No./ Reg. No. | App. Date/ Reg. Date | Class(es) | Goods/Services | Status |
|---------|---|-------------------------|--------------------------|--------------------|--|---|
| US | ZYVEX K0170US (34007.19) | 76/450,097 2,859,445 | 09/16/2002 07/06/2004 | 16, 40, 41 & 42 | Printed matter namely, papers, articles and books in the field of nanotechnology (Class 16); Custom manufacture of nanotechnology components, assemblers and nano, macro and micro devices for others (Class 40); Development and dissemination of educational materials for others in the field of nanotechnology; electronic publishing services, namely, publication of text and graphic works of others via the Internet featuring information in the field of nanotechnology (Class 41); Providing information via the Internet on the subject of nanotechnology; design and testing for new product development; design for others in the field of nanotechnology; research and development in new products for others; scientific research; technical consultation and research in the field of nanotechnology; scientific research and development of equipment, processes, and applications for others in the field of nanotechnology; design of nanotechnology components, assemblers and nano, macro and micro devices (Class 42) | REGISTERED 07/06/2009 - 07/06/2010 - Section 8 & 15 due. 07/06/2014 Section 8 & 9 renewal due. |
| China | MISCELLANEOUS DESIGN K0180CN16 (34007.27) | 3488483 3488483 | 03/17/2003 12/28/2004 | 16 | Printed matter, namely, papers, articles, and books in the field of nanotechnology | REGISTERED 12/28/2007 - Proof of Use due. 12/27/2014 - Renewal due. |
| China | MISCELLANEOUS DESIGN K0180CN41 (34007.28) | 3488482 3488482 | 03/17/2003 08/28/2004 | 41 | Development and dissemination of educational materials for others in the field of nanotechnology; on-line publication of information in the field of nanotechnology; electronic publishing services, namely, publication of text and graphic works of others in the field of nanotechnology via the Internet | REGISTERED 08/28/2007 - Proof of Use due. 08/27/2014 - Renewal due. |
| China | MISCELLANEOUS DESIGN K0180CN42 (34007.29) | 3488581 3488581 | 03/17/2003 02/07/2005 | 42 | Design and testing for new product development; design for others in the field of nanotechnology; research and development for new products for others; scientific research; technical consultation and research in the field of nanotechnology; scientific research and development for others in the field of nanotechnology; design and construction of nanotechnology components, assemblers and nano and macro devices | REGISTERED 02/07/2008 - Proof of Use due. 02/06/2015 - Renewal due. |
| China | MISCELLANEOUS DESIGN K0190CN42 (34007.38) | 3488484 3488484 | 3/17/2003 02/07/2005 | 42 | Design and testing of new products for others; licensing of intellectual property; development of new technology for others in the field of nanotechnology | REGISTERED 02/07/2008 - Proof of Use due. 02/06/2015 - Renewal due. |
| China | MISCELLANEOUS DESIGN K0190CN9 (34007.26) | 3488485 3488485 | 3/17/2003 08/07/2004 | 9 | Robots for use in the field of nanotechnology; mechanism for grasping, rotating, moving and assembling nanotechnology components; microscale assemblers; nanoscale assemblers; macroscale assemblers; nanotechnology research tools; microassembly systems for MEMS (microelectromechanical systems) fabrication; nanotechnology equipment and attachments to same for manipulation and/or characterization of nanotechnology materials | REGISTERED 08/06/2007 - Proof of Use due. 08/06/2014 - Renewal due. |
| China | ZYVEX K0000CN (34007.36) | 3488580 3488580 | 03/17/2003 08/07/2004 | 9 | Computer software for molecular modeling, computer aided design and computer aided manufacturing all in the field of nanotechnology | REGISTERED 08/07/2007 - Proof of Use due. 08/06/2014 - Renewal due. |
| China | ZYVEX K0160CN42 (34007.37) | 3488578 3488578 | 03/17/2003 01/28/2005 | 42 | Design and testing of new products for others; licensing of intellectual property; development of new technology for others in the field of nanotechnology | REGISTERED 01/28/2008 - Proof of Use due. 01/27/2015 - Renewal due. |

| Country | Mark/File No. | App. No./ Reg. No. | App. Date/ Reg. Date | Class(es) | Goods/Services | Status |
|---------|--|-----------------------|--------------------------|-------------------|--|---|
| China | ZYVEX K016CN9 (34007.22) | 3488579 3488579 | 03/17/2003 08/07/2004 | 9 | Robots for use in the field of nanotechnology; mechanism for grasping, rotating, moving and assembling nanotechnology components; microscale assemblers; nanoscale assemblers; macroscale assemblers; nanotechnology research tools; microassembly systems for MEMS (microelectromechanical systems) fabrication; nanotechnology equipment and attachments to same for manipulation and/or characterization of nanotechnology materials | REGISTERED 08/07/2007 - Proof of Use due. 08/06/2014 - Renewal due. |
| China | ZYVEX K017CN16 (34007.23) | 3488577 3488577 | 03/17/2003 01/28/2005 | 16 | Printed matter, namely, papers, articles, and books in the field of nanotechnology | REGISTERED 01/28/2008 - Proof of Use due. 01/27/2015 - Renewal due. |
| China | ZYVEX K017CN41 (34007.24) | 3488576 3488576 | 3/17/2003 08/28/2004 | 41 | Development and dissemination of educational materials for others in the field of nanotechnology; on-line publication of information in the field of nanotechnology; electronic publishing services, namely, publication of text and graphic works of others in the field of nanotechnology via the Internet | REGISTERED 08/28/2007 - Proof of Use due. 08/27/2014 - Renewal due. |
| China | ZYVEX K017CN42 (34007.25) | 3488575 3488575 | 03/17/2003 01/28/2005 | 42 | Design and testing of new product development; design for others in the field of nanotechnology; research and development for new products for others; scientific research; technical consultation and research in the field of nanotechnology; scientific research and development for others in the field of nanotechnology; design and construction of nanotechnology components, assemblers and nano and macro devices | REGISTERED 01/28/2008 - Proof of Use due. 01/27/2015 - Renewal due. |
| CTM | MISCELLANEOUS DESIGN K021EU (34007.35) | 3074424 3074424 | 02/27/2003 06/08/2004 | 9, 16, 40, 41, 42 | Scientific, nautical, surveying, electric, photographic, cinematographic, optical, weighing, measuring, signaling, checking (supervision), life-saving and teaching apparatus and instruments; robots for use in the field of nanotechnology; mechanism for grasping, rotating, moving and assembling nanotechnology components; microscale assemblers; nanoscale assemblers; macroscale assemblers; nanotechnology research tools; microassembly systems for MEMS (microelectromechanical systems) fabrication; nanotechnology equipment and attachments to same for manipulation and/or characterization of nanotechnology materials; computer hardware and software including computer software for molecular modeling, computer aided design and computer aided manufacturing all in the field of nanotechnology (Class 9); Printed matter, including, papers, articles and books in the field of nanotechnology; instructional and teaching materials (except apparatus); photographs; paper, cardboard and goods made from these materials and not included in other classes (Class 16); Custom assembling of nanotechnology | REGISTERED 02/27/2013 - Renewal due. |

| Country | Mark/File No. | App. No./ Reg. No. | App. Date/ Reg. Date | Class(es) | Goods/Services | Status |
|---------|---------------------------|-----------------------|--------------------------|---------------|--|---|
| CTM | ZVEX K020EU (34007.34) | 3074606 3074606 | 02/27/2003 09/27/2004 | 9, 16, 41, 42 | <p>materials (Class 40); education and training services, including development and dissemination of educational materials for others in the field of nanotechnology, on-line publication, including on-line publication of information in the field of nanotechnology; electronic publishing services, including electronic publication of text and graphic works of others in the field of nanotechnology via the Internet (Class 41); Scientific and technology services and research and design relating thereto; design and testing of new products for others; design and testing of new product development; design for others in the field of nanotechnology; research and development of new technology for others in the field of nanotechnology; research consultation and research in the field of nanotechnology, scientific research and development for others in the field of nanotechnology, design and construction of nanotechnology components, assemblers, and nano, macro and micro devices; licensing of intellectual property (Class 42)</p> <p>Scientific, nautical, surveying, electric, photographic, cinematographic, optical, weighing, measuring, signaling, checking (supervision), life-saving and teaching apparatus and instruments; robots for use in the field of nanotechnology; mechanism for grasping, rotating, moving and assembling nanotechnology components; microscale assemblers; nanoscale assemblers; macroscale assemblers; nanotechnology research tools; microassembly systems for MEMS (microelectromechanical systems) fabrication; nanotechnology equipment and attachments to same for manipulation and/or characterization of nanotechnology materials; computer hardware and software including computer software for molecular modeling, computer aided design and computer aided manufacturing all in the field of nanotechnology (Class 9); Printed matter, including, papers, articles and books in the field of nanotechnology; instructional and teaching materials (except apparatus); photographs; paper, cardboard and goods made from these materials and not included in other classes (Class 16);</p> <p>education and training services, including development and dissemination of educational materials for others in the field of nanotechnology, on-line publication, including on-line publication of information in the field of nanotechnology; electronic publishing services, including electronic publication of text and graphic works of others in the field of nanotechnology via the Internet (Class 41); Scientific and technology services and research and design relating thereto; design and testing of new products for others; design and testing of new product development; design for others in the field of nanotechnology; development of new technology for others in the field of nanotechnology; research and development for new products for others; scientific research; technical consultation and research in the field of nanotechnology; scientific research and development for others in the field of nanotechnology; design and construction of nanotechnology components, assemblers, and nano, macro and micro devices; licensing of intellectual property (Class 42)</p> | REGISTERED 09/27/2009 - Proof of Use due 02/27/2013 - Renewal due |

| Country | Mark/File No. | App. No./ Reg. No. | App. Date/ Reg. Date | Class(es) | Goods/Services | Status |
|---------|--|-------------------------|--------------------------|------------|--|---|
| Japan | MISCELLANEOUS DESIGN K018JP (34007.33) | 2003-018.982 4773724 | 03/11/2003 05/28/2004 | 16, 41, 42 | Printed matter, namely, papers, articles, and books in the field of nanotechnology (Class 16); Development and dissemination of educational materials for others in the field of nanotechnology; on-line publication of information in the field of nanotechnology; electronic publishing services, namely, publication of text and graphic works of others in the field of nanotechnology via the Internet (Class 41); Design and testing for new product development; design for others in the field of nanotechnology; research and development for new products for others; scientific research; technical consultation and research in the field of nanotechnology; scientific research and development for others in the field of nanotechnology; design and construction of nanotechnology components, assemblers and nano and macro devices (Class 42) | REGISTERED 05/28/2014 - Renewal due. |
| Japan | MISCELLANEOUS DESIGN K019JP (34007.32) | 2003-018.981 4835317 | 03/11/2003 01/28/2005 | 7, 9, 42 | Robots for industry for nanoscale or microscale super precision working and their parts/fittings; remote control type manipulators for industry for nanoscale or microscale super precision working and their parts/fittings; nanoscale or microscale super precision semiconductor manufacturing apparatus and their parts/fittings; nanoscale or microscale super precision electric/electronic parts manufacturing apparatus and their parts/fittings (Class 7); Robots for use in the field of nanotechnology; mechanism for grasping, rotating, moving and assembling nanotechnology components; microscale assemblers; nanoscale assemblers; macroscale assemblers; nanotechnology research tools; microassembly systems for MEMS (microelectromechanical systems) fabrication; nanotechnology equipment and attachments to same for manipulation and/or characterization of nanotechnology materials (Class 9); Design and testing of new products for others; licensing of intellectual property; development of new technology for others in the field of nanotechnology (Class 42) | REGISTERED 01/28/2008 - Proof of Use due. 01/28/2015 - Renewal due. |
| Japan | ZVEX K000JP (34007.30) | 2003-018.979 | 3/11/2003 | 9 | Computer software for molecular modeling, computer aided design and computer aided manufacturing all in the field of nanotechnology; other electronic machines/instruments and their parts/fittings; electrical communication apparatus/instruments; electronic publications | ABANDONED 12/04/2003 - Client authorized abandonment. |
| Japan | ZVEX K020JP (34007.31) | 2003-018.978 4775780 | 03/11/2003 06/04/2004 | 41, 42, 40 | Education information/educational services regarding the field of nanotechnology; and organization/management/arrangement of seminars/workshops regarding the field of nanotechnology (Class 41); designing for new product development, designing in the field of nanotechnology (Class 42); custom assembling of nanotechnology materials (Class 40). | REGISTERED 06/04/2014 - Renewal due. |
| Japan | ZVEX K020JPDIV (34007.31.02) | 2004-001782 4842203 | 03/11/2003 03/04/2005 | 42 | Agencies or brokerage for contracts regarding intellectual property rights; testing of new products/consulting/scientific research and development of nanotechnology. | REGISTERED 03/04/2015 - Renewal due. |

EXHIBIT D

Mask Works

Description

Registration/
Application
Number

Registration/
Application
Date

None