PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY AGREEMENT

CONVEYING PARTY DATA

Name	Execution Date
Discovery Technology International LLLP	03/31/2009

RECEIVING PARTY DATA

Name:	Andrew Mitchell
Street Address:	33 Chancery Lane
City:	London
State/Country:	UNITED KINGDOM

PROPERTY NUMBERS Total: 11

Property Type	Number
Application Number:	61052835
Application Number:	11406335
Application Number:	61138442
Application Number:	61138665
Application Number:	61139439
Application Number:	61150703
Application Number:	61149941
Application Number:	61178587
Application Number:	61178323
Patent Number:	7395607
Patent Number:	7405508

CH $440.00 61052835

CORRESPONDENCE DATA

Fax Number: (212)715-9525
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 2127157765
Email: crieder@kramerlevin.com

Correspondent Name:	Kramer Levin Naftalis & Frankel LLP
Address Line 1:	1177 Avenue of the Americas
Address Line 4:	New York, NEW YORK 10036

ATTORNEY DOCKET NUMBER:	065285-1
NAME OF SUBMITTER:	Carrie L. Rieder

Total Attachments: 3
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PATENT SECURITY AGREEMENT

This PATENT SECURITY AGREEMENT (this "Agreement") is made on this 31st day of March, 2009 between Discovery Technology International LLLP, a Florida limited liability limited partnership ("Debtor"), and Andrew Mitchell ("Secured Party").

1. SECURITY INTEREST. Debtor hereby grants to Secured Parties (as defined below) a security interest in all rights, title, and interest in all patents, patent applications and like protections now owned by Debtor and listed on Schedule I attached hereto, including, without limitation, improvements, divisions, continuations, renewals, reissues, extensions and continuations-in-part of the same and the proceeds therefrom ("Collateral"). The security interest granted hereunder shall secure the payment and performance of Debtor's obligations under the senior secured promissory notes (the "Notes") issued to the Secured Parties pursuant to that certain Note Purchase Agreement dated on or about the date hereof (the "Note Issuance"), including but not limited to the Note issued to the Secured Party in the principal amount of ONE HUNDRED SEVENTY-FIVE THOUSAND DOLLARS ($175,000.00), and the full, prompt and complete payment and performance when due (whether at stated maturity, by acceleration or otherwise) of all other liabilities and obligations of Debtor to the Secured Parties due or to become due or hereafter arising under this Agreement or in connection with the Note Issuance.

For the purpose of this Agreement, "Secured Parties" shall mean collectively the Secured Party and any other holder of Notes pursuant to the Note Issuance (as defined in the in the Notes) who has executed a security agreement containing substantially the same terms and conditions as stated herein.

2. COVENANTS. Debtor hereby warrants and covenants that during the course of this Agreement : (a) The Debtor's place of business is 6578 Palmer Park Circle, Sarasota, Florida 34238, and Debtor will notify Secured Party in writing of any change in or discontinuance of Debtor's place of business within five (5) business days of such occurrence; (b) Debtor will not sell, dispose, or otherwise transfer the Collateral or any interest therein, other than pursuant to the terms of the Notes or as part of a transaction conducted in the ordinary course of business or by license grants made by Debtor in the ordinary course of business, without the prior written consent of Secured Parties; (c) Debtor shall, from time to time, execute and file such other instruments, and take such further actions as the Secured Parties may reasonably request to perfect or continue the perfection of Secured Parties' interest in the Collateral; and (d) to Debtor's knowledge, this Agreement creates in favor of Secured Parties a valid first priority security interest in the Collateral in the United States securing the payment and performance of the obligations evidenced by the Notes.

The Secured Party shall, at the Debtor's sole expense, file this Agreement with the U.S. Patent and Trademark Office no later than ninety (90) days after completion of the Note Issuance.

3. EVENT OF DEFAULT. Any Event of Default pursuant to the Notes shall be deemed an event of default under this Agreement (each, an "Event of Default"). The Notes shall govern with respect to the procedures upon an Event of Default. If an Event of Default is not cured within the prescribed time periods as provided in the Notes, the Secured Parties may at any time thereafter declare the Notes in default and all obligations secured hereby immediately due and payable and shall have the remedies of a Secured Party under the Uniform Commercial Code. Secured Parties may require the Debtor to make the Collateral provided hereunder available to the Secured Parties at a place which is mutually convenient. No waiver by Secured Parties of any Event of Default shall operate as a waiver of any other Event of Default or of the same Event of Default on a future occasion. This Agreement shall inure to the benefit of and bind the heirs, executors, administrators, successors, and assigns of the parties. This Agreement shall have the effect of an instrument under seal.

Discovery Technology International, LLP

By _____
Name: M. P. Broderick
Title: President

Date: _____

Secured Party: Andrew Mitchell

By _____

Date: 3/31/09

SCHEDULE I

to

PATENT SECURITY AGREEMENT

Application No.	Description	Inventors	Type of Application	Status	Comments	Product Description	Product Sample	Docket No. / Case No.	Licensed Out to Date
7,395,607 B1	ROTATIONAL AND TRANSLATIONAL MICROPOSITION APPARATUS AND METHOD	M. P. Broderick, S.F. Petrenko, A. Raphalovitz, V. Zhelyaskov	US Patent	U.S. Patent Granted (7/8/2008)	The invention relates to a rotational and translational micropositioner with six degrees of freedom for manipulation of objects with submicron linear and arc-second angular resolution based on piezoelectric ultrasonic motor with pushers.	Commercialized product tradename: RoboMate	Acrobat Document	NA	YES
61/052,835	DTI PIEZOELECTRIC MOTOR DISCLOSURE	S.F. Petrenko	Prov. Pat (5/20/2008)	Pat. Pen.	The invention relates to piezoelectric ultrasonic miniature rotary motors with a new design, facilitating mass production of small size (less then 10 mm OD) rotary bi-directional PZT motors.	Designed/Prototype in production		Ref.: 21457/0209673-US0	YES
7,405,508 B2	MICROMANIPULATOR	S.F. Petrenko	US Patent	U.S. Patent Granted 7/29/2008	The invention relates to a reversible (bi-directional) piezoelectric ultrasonic motor based on pushers and micromanipulator based on it	Commercialized product tradename: NM3D "Nanomanipulator"	Acrobat Document	NA	Licensed exclusively to DTI
11/406,335	PIEZOELECTRIC VALVE	S.F. Petrenko	NonProv. Pat. (5/19/2006)	Pat. Pen.	The invention relates to a flow control and/or shut ON/OFF motorized ball valve for non-corrosive fluids based on ultrasonic PZT motor with pushers allowing fast response and small opening/closing times	Designed/Prototype completed		NA	Licensed exclusively to DTI
61/138,442	PIEZOELECTRIC MOTOR WITH HIGH TORQUE	S.F. Petrenko, V. Zhelyaskov	Prov. Pat (12/17/2008)	Pat. Pen.	The invention relates to a piezoelectric ultrasonic rotary motor based on pushers with new design and method of control, which allows bigger diameter PZT motors to be built and substantially higher torques to be achieved.	Designed/Prototype completed		Darby Ref: 21457/0210875) [DARBY-WORKSITE.FID1237255	YES
61/138,665	ULTRASONIC PIEZOELECTRIC QUASI-RESONANCE LINEAR NANOMOTOR BASED ON ACOUSTIC STANDING WAVES WITH COMBINED RESONATOR	S.F. Petrenko, V. Zhelyaskov	Prov. Pat. (12/18/2008)	Pat. Pen.	The invention relates to a miniature ultrasonic piezoelectric linear motor, which is reversible, based on new design and method of control, which allows substantially higher push/pull force per unit of mass of the motor (3 – 4 N for a motor with mass of 10 g) and higher linear speed (up to 1 m/s) to be achieved. This application also includes an invention for an integrated air micropump device.	Designed/Prototype completed		Darby Ref: 21457/0210876) (DARBY-WORKSITE.FID1237273	YES
61/139,439	PIEZOELECTRIC MOTOR	S.F. Petrenko, V. Zhelyaskov	Prov.Pat. (12/19/2008)	Pat. Pen.	The invention relates to a miniature ultrasonic piezoelectric rotary motor, based on new design with reversible motion, based on a new control principle. This design allows manufacturing of miniature rotary PZT motors and actuators in the x mm range. This application also includes an invention for an integrated air micropump device.	Designed/Prototype Pending		Darby Ref: 21457/0210998-US0) [DARBY-WORKSITE.FID2240375	YES
PCT (2/10/2009)	PIEZOELECTRIC GENERATOR OF MECHANICAL VIBRATIONS, AND PIEZOELECTRIC MOTOR (and variants) BASED ON THE GENERATOR	Serhiy Petrenko, Vyacheslav Lavrinenko, Vitalii Koval	US Nonprov. Patent Applied For	Pat. Pen.	The invention is a substantial improvement of the original bi-directional piezoelectric rotary motor providing high Q factor of the piezoresonator and increased manufacturability.	Designed/Prototype completed		Darby.Ref 0210856-US0 [DARBY-WORKSITE.FID1242799]	YES
61/150,703	VALVES BASED ON REVERSIBLE PIEZOELECTRIC ROTARY MOTOR	S.F. Petrenko, V. Zhelyaskov	Prov.Pat (2/6/2009)	Pat. Pen.	The invention relates to a flow control and/or shut ON/OFF motorized ball & pinch valves for corrosive or non-corrosive fluids based on ultrasonic piezoelectric rotary motor, based on new design, which allows faster flow control response and small opening/closing times – 100-250 ms (i.e. 4-6 mm apertures).	Designed/Prototype completed(Under test)		Darby.Ref 21457/0211374-US0) [DARBY-WORKSITE.FID2259319	YES
61/149,941	PIEZOELECTRIC CORRUGATED-PISTON MICROPUMP	S.F. Petrenko, V. Zhelyaskov, DTI	Prov. Pat (2/4/2009)	Pat. Pen.	The invention relates to a piezoelectric micropump based on rotary piezomotor. To pump is mounted within the interior of a corrugated piston. The micropump, which can provide more than 200 ml/min airflow at 2 psi differential pressure, is an alternative to the membrane pumps with the advantage of practically noiseless and ultra-low power consumption.	Designed		Darby.Ref: 21457/0211412-US0) [DARBY-WORKSITE.FID182760	YES
61/178,587	ELIMINATION OF FRICTION IN MULTI AXES SUPPORT SYSTEM BY USING PIEZOELECTRIC ULTRASONIC SUSPENSION IN GAS	S.F. Petrenko, V. Zhelyaskov, DTI	Prov. Pat (5/15/2009)	Pat. Pen.	The invention relates to a multiaxes support which uses piezoelectric resonator to induce frictionless state between a saddle and a trunion.	Prototype of concept device completed		Darby.Ref: 21457/0211412-US0) [DARBY-WORKSITE.FID182760	In process
61/178,323	ROTARY ULTRASONIC PIEZOMOTORS WITH INCREASED PERFORMANCE	S.F. Petrenko, V. Zhelyaskov, DTI	Prov. Pat (5/14/2009)	Pat. Pen.	The invention relates to piezoelectric ultrasonic miniature rotary motors with a new design, facilitating mass production of small size (less then 10 mm OD) rotary bi-directional PZT motors.	Designed/Prototype in production		Darby.Ref: 21457/0212244-US0	In process
In preparation	VARIANTS OF NON-MAGNETIC ROTARY PIEZOELECTIC MOTOR	S.F. Petrenko, V. Zhelyaskov, DTI	(Prov. Pat)	In preparation	The invention relates to new design variants of non-magnetic rotary piezoelectric motor	Designed		NA	NA