

Docket No. 700623-3003

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Form PTO-1595 (Rev. 06/04)
OMB No. 0651-0027 (exp. 6/30/2005)

12-02-2004

U.S. DEPARTMENT OF COMMERCE
States Patent and Trademark Office

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To the Director of the U.S. Patent and Trademark

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or the new address(es) below.

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1. Name of conveying party(ies)/Execution Date(s):

Yuri V. Melnik
Vitali Soukhoveev
Vladimir Ivantsov
Katie Tsvetkov
Vladimir A. Dmitriev

Execution Date(s): November 7, 2004; November 1, 2004; November 1, 2004; November 5, 2004; November 1, 2004

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Technologies and Devices, International, Inc.
Address: 12214 Plum Orchard Drive
Silver Spring, Maryland 20904

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s): 10/632,736,
filed August 1, 2003

A. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Gary D. Lueck
Address: Bingham McCutchen LLP
Three Embarcadero Center
Suite 1800
San Francisco, CA 94111-4067

Phone Number: (213) 680-6400

Fax Number: (213) 680-6499

Email Address: gary.lueck@bingham.com

12/01/2004 GTDN11 00000137 502518 10632736

01 FC:021 40.00 DA

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account, Docket No. 700623-3003
- Enclosed
- None required (government interest not affecting title)

8. Payment information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 50-2518
Docket No. 700623-3003

9. Signature:

Date: November 19, 2004

Gary D. Lueck, Registration No. 50,791

Name of Person Signing

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

5

ASSIGNMENT (JOINT)

For good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned, inventors:

Yuri V. Melnik, residing at 259 Congressional Lane, Apt. #409, Rockville, MD 20852;

Vitali Soukhoveev, residing at 17604 Sequoia Dr., Apt. #204, Gaithersburg, MD 20877;

Vladimir Ivantsov, residing at 5 Nancy Pl., Apt. #3, Gaithersburg, MD 20877-1560;

Katie Tsvetkov, residing at 18710 Barn Swallow Terrace, Gaithersburg, MD 20879, and

Vladimir A. Dmitriev, residing at 13501 Scottish Autumn Lane, Gaithersburg, MD 20878,

have created a certain invention for which an application for United States Letters Patent entitled **REACTOR FOR EXTENDED DURATION GROWTH OF GALLIUM CONTAINING SINGLE CRYSTALS**, which

was filed in the U.S. Patent and Trademark Office on **August 1, 2003** and assigned Serial Number **10/632,736**;

Do hereby sell, assign and transfer to **Technologies and Devices International, Inc.**, a corporation, having a place of business at 12214 Plum Orchard Drive, Silver Springs, MD 20904, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefore in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possession and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

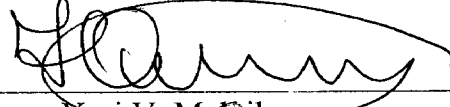
Agree that **Technologies and Devices International, Inc.**, hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, successors, assigns, or legal representatives;

The terms "Application" and Application for Letters Patent" as used herein include both provisional and non-provisional applications;

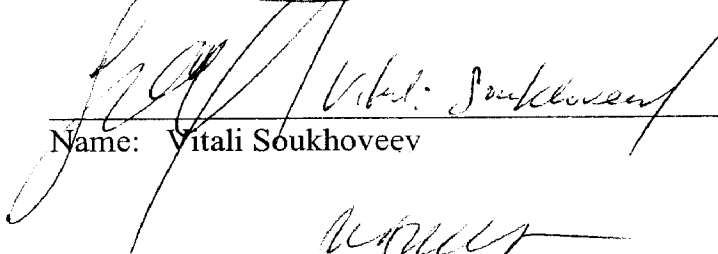
Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same has herein expressed is possessed by the undersigned.

IN THE TESTIMONY WHEREOF we have hereunto set our signatures on the date indicated below.

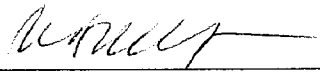
11/07/2004
Date


Name: Yuri V. Melnik

11/01/2004
Date


Name: Vitali Soukhoveev

11/01/2004
Date


Name: Vladimir Ivantsov

Date

Name: Katie Tsvetkov

Nov. 1, 2004
Date


Name: Vladimir A. Dmitriev

The terms "Application" and Application for Letters Patent" as used herein include both provisional and non-provisional applications;

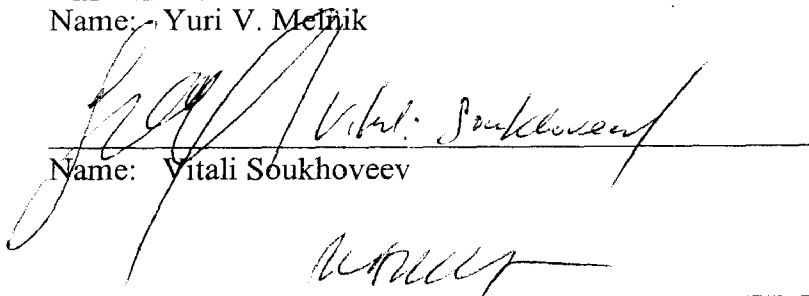
Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same has herein expressed is possessed by the undersigned.

IN THE TESTIMONY WHEREOF we have hereunto set our signatures on the date indicated below.

Date

Name: Yuri V. Melnik

11/01/2004



Date

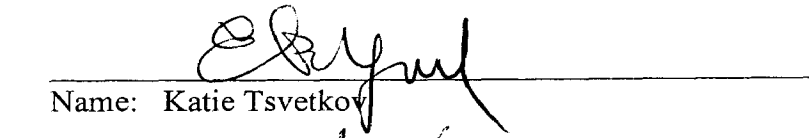
Name: Vitali Soukhoveev

11/01/2004

Date

Name: Vladimir Ivantsov

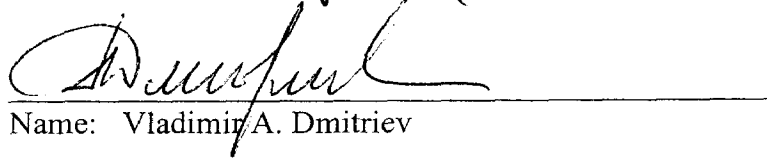
11/05/04



Date

Name: Katie Tsvetkov

Nov. 1, 2004



Date

Name: Vladimir A. Dmitriev