

PATENT

FORM PTO-1595 RECORDATION FORM COVER SHEET U.S. Department of Commerce					
//) - /5 - 0 PATENTS					
To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof:					
1. Name and address of conveying party(ics):	Name and address of receiving party(ies):				
Name: Yuri, V. Melnik, Vitali Soukhoveev, Vladimir Ivanstov, Katie Tsvetkov and Vladimir A. Dmitriev	Name: Technologies and Devices International, Inc. Address: 8660 Dakota Drive Gaithersburg, MD 20877				
[X] Individuals [] Association [] General Partnership [] Limited Partnership [] Corporation [] Other: Additional name(s) of conveying party(ies) attached?	Additional name(s) of receiving party(ies) attached? [] Yes [X] No				
Yes [X] No					
3. Nature of Conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name Execution Date: Oct. 2, 2001 and Oct. 3, 2001	[] Other: 1 5 %				
Application Number(s) or Patent Number(s)					
If this document is being filed together with a new application					
A. Patent Application Number(s). <u>09/903,299</u>	B. Patent Number(s):				
Additional numbers attached? [] Yes [X] No	Yes [X] No Additional numbers attached? [] Yes [] No				
5. Name and address of party to whom correspondence concerning this document should be mailed:	6. Total number of applications and patents involved: 7. Total fee (37 C.F.R. § 3.41)(\$40.00 per assignment): \$40.00				
Name: <u>David G. Beck</u>	[] Enclosed				
Address: McCutchen, Doyle, Brown & Enersen Three Embarcadero Center San Francisco, California 94111	[X] Authorized to be charged to Deposit Account No. <u>50-1193</u> . [x] The Commissioner is authorized to charge underpayment of any fees or credit any overpayment to Deposit Account No. <u>50-1193</u> .				
DO NOT US	E THIS SPACE				
9. Statement and signature.					
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.					
David G. Beck 37,776 (3/9/3)					
Name Registration Number Signature Date					
Total number of pages including cover sheet, attachments and document: 8					
Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231					

377271 _1.DOC

ASSIGNMENT

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

Yuri V. Melnik, Rockville, MD Vitali Soukhoveev, Gaithersburg, MD Vladimir Ivantsov, Gaithersburg, MD Katie Tsvetkov, Gaithersburg, MD Vladimir A. Dmitriev, Gaithersburg, MD

Who 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 has been executed and

	is filed herewith;
\boxtimes	was filed in the U.S. Patent and Trademark Office on July 11, 2001 and assigned
	Serial Number 09/903,299;

Do hereby sell, assign and transfer to **Technologies and Devices International, Inc.**, a **corporation**, having a place of business at **8660 Dakota Drive**, **Gaithersburg**, **MD 20877**, 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;

71153_1 aket No. 23600-7005

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;

Inventor(s) hereby authorizes the above-mentioned Assignee or its legal representative to insert in this instrument the filing date and serial number of said Application or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document; and

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.

2

1153 [1] cet No.

Vitali Soukhoveev			
Vital: Soukhweer			
Date: Oct. 02, 200	<u> </u>		
00 - 1 - I		OPTIONA	L SECTION
STATE OF (Yand and		CLAIMED BY NER	
COUNTY OF montge mary	Though statute does not require the Notary to fi in the data below, doing so may prove invaluable to persons relying on the document.		
On () d 2, 2001 before me,	Ury L Dander, Notary Public,	□ INDIVIDUAL	
1/1/1: 5	☐ CORPORATE OFFICER(S)		
personally appeared / itali =			
,		TITI	LE(S)
personally known to me - OR - proved	to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed	☐ PARTNER(S)	☐ LIMITED
	to the within instrument and acknowledged to		□ GENERAL
	me that he/she/they executed the same in	☐ ATTORNEY-IN	I-FACT
	his/her/their authorized capacity(ies), and that	☐ TRUSTEE(S)	
	by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of	☐ GUARDIAN/CONSERVATOR	
	which the person(s) acted, executed the	OTHER:	-
CHERYL L. BENDER	instrument.		
THE PROPERTY OF MAKILAND	yr. Land afficial real		
Commission Expires May 17, 2003	Witness my hand and official seal.		
	Man 1. ander	SIGNER IS REI Name of Person(s) or Eu	
	CICNIA TUDE OF NOTARY	1	

IN THE TESTIMONY WHEREOF I have hereunto set my signature on the date indicated

IN THE TESTIMONY WHEREOF I have hereunto set my signature on the date indicated below. Vladimir Ivantsov -OPTIONAL SECTION-STATE OF Mary land CAPACITY CLAIMED BY **SIGNER** Though statute does not require the Notary to fill COUNTY OF Montgomery in the data below, doing so may prove invaluable to persons relying on the document. On Od. 2. 2001 before me, Changle Bander, Notary Public, ☐ INDIVIDUAL ☐ CORPORATE OFFICER(S) personally appeared TITLE(S) personally known to me - OR - Proved to me on the basis of satisfactory evidence to be \square PARTNER(S) ☐ LIMITED the person(s) whose name(s) is/are subscribed ☐ GENERAL to the within instrument and acknowledged to me that he/she/they executed the same in ☐ ATTORNEY-IN-FACT his/her/their authorized capacity(ies), and that ☐ TRUSTEE(S) by his/her/their signature(s) on the instrument ☐ GUARDIAN/CONSERVATOR the person(s), or the entity upon behalf of which the person(s) acted, executed the ☐ OTHER: _____ CHERYL L. BENDER instrument. " PUBLIC STATE OF MARYLAND mission Expires May 17, 2003 Witness my hand and official seal.

Witness my hand and official seal.

SIGNER IS REPRESENTING:

Name of Person(s) or Entity(ies)

IN THE TESTIMONY WHEREOF I have hereunto set my signature on the date indicated below. Katie Tsvetkov Date: -OPTIONAL SECTION— STATE OF Maryland CAPACITY CLAIMED BY SIGNER COUNTY OF Montgomen Though statute does not require the Notary to fill in the data below, doing so may prove invaluable to persons relying on the document. On O A 3, LOU \ _ before me, ☐ INDIVIDUAL ☐ CORPORATE OFFICER(S) personally appeared TITLE(S) □ personally known to me - OR -> proved to me on the basis of satisfactory evidence to be ☐ PARTNER(S) ☐ LIMITED the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to ☐ GENERAL me that he/she/they executed the same in ☐ ATTORNEY-IN-FACT his/her/their authorized capacity(ies), and that ☐ TRUSTEE(S) by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of ☐ GUARDIAN/CONSERVATOR which the person(s) acted, executed the CHERYL L. BENDER ☐ OTHER: ____ instrument.

NOTARY PUBLIC STATE OF MARYLAND My Commission Expires May 17, 2003

Witness my hand and official seal.

SIGNER	IS	REPRESENTING
SIGNER		TOTAL MEDICATION

Name of Person(s) or Entity(ies)

IN THE TESTIMONY WHEREOF I have hereunto set my signature on the date indicated below.

Vladimir A. Dmitriev

Swelle Trus		
Date: Oct 102, 2	°00 /	
J ,		
STATE OF Mary land COUNTY OF Montgone	Puz eny [LBenden, Notary Public,	——OPTIONAL SECTION—— CAPACITY CLAIMED BY SIGNER Though statute does not require the Notary to fill in the data below, doing so may prove invaluable to persons relying on the document. INDIVIDUAL
, , ~	1. Dmitrier	☐ CORPORATE OFFICER(S)
	ME(S) OF SIGNER(S)	TITLE(S)
CHERYL L. BENDER NOTARY PUBLIC STATE OF MARYLAND My Commission Expires May 17, 2003	to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument. Witness my hand and official seal.	□ PARTNER(S) □ LIMITED □ GENERAL □ ATTORNEY-IN-FACT □ TRUSTEE(S) □ GUARDIAN/CONSERVATOR □ OTHER: □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

21371153 [1 Docket No.

RECORDED: 10/15/2001

7