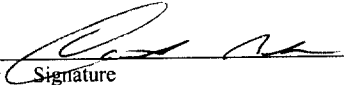


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PATENT

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1. Name and address of conveying party(ies):  Name: Denis V. Tsvetkov, Andrey E. Nikolaev and Vladimir A. Dmitriev  7-8-02  <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Association <input type="checkbox"/> General Partnership <input type="checkbox"/> Limited Partnership <input type="checkbox"/> Corporation <input type="checkbox"/> Other:  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			2. Name and address of receiving party(ies):  Name: <u>Technologies and Devices International, Inc.</u> Address: 8660 Dakota Drive Gaithersburg, MD 20877  Additional name(s) of receiving party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:  Execution Date: June 16, 2002, June 17, 2002, June 18, 2002					
4. Application Number(s) or Patent Number(s) If this document is being filed together with a new application, the execution date of the application is:					
A. Patent Application Number(s): <u>10/113,222</u>  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			B. Patent Number(s): _____  Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning this document should be mailed:  Name: <u>David G. Beck</u>  Address: McCutchen, Doyle, Brown & Enersen Three Embarcadero Center San Francisco, California 94111			6. Total number of applications and patents involved: <u>1</u>  7. Total fee (37 C.F.R. § 3.41)(\$40.00 per assignment): <u>\$40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to Deposit Account No. <u>50-1193</u> . <input checked="" type="checkbox"/> The Commissioner is authorized to charge underpayment of any fees or credit any overpayment to Deposit Account No. <u>50-1193</u> .		
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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  6/28/02 Name Registration Number Signature Date  Total number of pages including cover sheet, attachments and document: <u>3</u>					
Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231					

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## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned, inventors: Denis V. Tsvetkov, Andrey E. Nikolaev and Vladimir A. Dmitriev

Who have created a certain invention for which an application for United States Letters Patent entitled **APPARATUS FOR EPITAXIALLY GROWING SEMICONDUCTOR DEVICE STRUCTURES WITH SHARP LAYER INTERFACES UTILIZING HVPE** has been executed and



is filed herewith;



was filed in the U.S. Patent and Trademark Office on **March 28, 2002** and assigned

Serial Number **10/113,222**;

Do hereby sell, assign and transfer to **Technologies and Devices International, Inc.**, 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;

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;

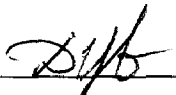
The terms "Application" and Application for Letters Patent" as used herein include both provisional and non-provisional applications;

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.

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

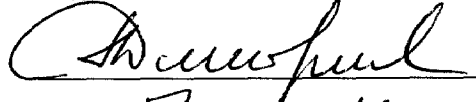
**Denis V. Tsvetkov**

  
Date: 06/17/02

**Andrey E. Nikolaev**

  
Date: 06/18/02

**Vladimir A. Dmitriev**

  
Date: June 16, 2002