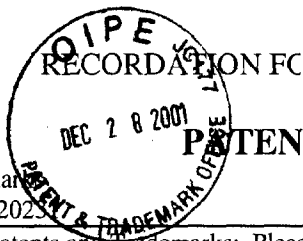


01-03-2002

Department of Commerce
Patent and Trademark Office



101929449

12-29-01

Our Ref.: 340-61

Commissioner of Patents and Trademarks
Box Assignment, Washington, D.C. 20230

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): Vladimir Kochergin Philip Swinehart</p> <p>Additional name/s of conveying party/ies attached? <input type="checkbox"/></p> <p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Assignment <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: <u>12/19/2001</u></p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: <u>Lake Shore Cryotronics, Inc.</u> Internal Address: _____ Street Address: <u>575 McCorkle Blvd.</u> _____ _____ City: <u>Westerville</u> State/Country: <u>Ohio</u> Zip: <u>43082</u></p> <p>Additional name/s & address/es attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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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: _____

<p>A. Patent Application No(s). (1) <u>09/983,999</u> (2) _____ (3) _____</p>	<p>B. Patent No(s). (1) _____ (2) _____ (3) _____</p> <p>Additional numbers attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>Robert W. Faris</u></p> <p>Internal Address: _____</p> <p>Street Address: <u>Nixon & Vanderhye P.C.</u> <u>1100 North Glebe Road</u> <u>8th Floor</u> City: <u>Arlington</u> State: <u>VA</u> Zip: <u>22201</u></p>	<p>6. Total number of applications & patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account #14-1140</p> <p>8. The Commissioner is hereby authorized to charge any <u>deficiency</u>, or credit any overpayment, in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.</p>
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DO NOT USE THIS SPACE

9. Statements 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.

Robert W. Faris *Robert W. Faris* December 28, 2001
Name of Person Signing Signature Date
Reg. No. 31,352

Total number of pages including **original** cover sheet, attachments, and document: [3]

12/31/2001 NROCHA1 00000029 09983999
05 FC:581 40.00 DP

ASSIGNMENT FOR PATENT APPLICATION
(All Rights)

WHEREAS, Vladimir Kochergin, and Philip Swinehart (hereinafter ASSIGNORS) both of Westerville, Ohio, have invented a certain improvement in SYSTEM AND METHOD FOR MEASURING PHYSICAL, CHEMICAL AND BIOLOGICAL STIMULI USING VERTICAL CAVITY SURFACE EMITTING LASERS WITH INTEGRATED TUNER for which a so-entitled application for Letters Patent of the United States was filed on 26 October 2001 under Serial No. 09/983,999;

WHEREAS, Lake Shore Cryotronics, Inc. (hereinafter ASSIGNEE), a corporation of the State of Ohio, having an office and place of business at 575 McCorkle Blvd., Westerville, Ohio 43082 is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNORS by these presents hereby sell, assign, and transfer unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNORS' entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres; and the ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have

represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

ASSIGNORS hereby agree to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;

ASSIGNORS hereby agree to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and

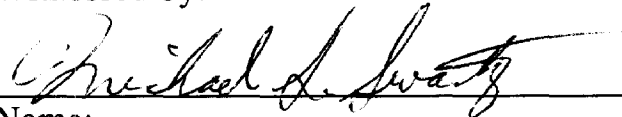
ASSIGNORS hereby agree, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

12/19/01
Date

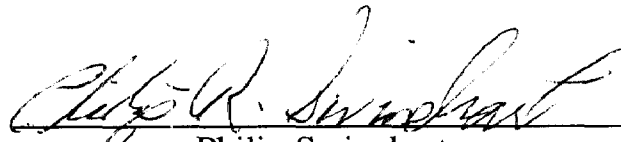

Vladimir Kochergin

Witnessed by:



Name:

12/19/01
Date:

12/19/01
Date


Philip Swinehart

Witnessed by:


Name:

12/19/01
Date: