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

1. Name of conveying party(ies): University Technology Corporation

2. Name and address of receiving party(ies) Name: THE REGENTS OF THE UNIVERSITY OF COLORADO, A BODY CORPORATE Internal Address: 588 SYS

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

3. Nature of conveyance: [x] Assignment [] Merger [] Security Agreement [] Change of Name [] Other

Street Address: 4001 Discovery Drive, Suite 390 City: Boulder State: CO Zip: 80309

Execution Date: 4/30/02

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

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 No.(s) _____

B. Patent No.(s) 5,615,558

Additional numbers attached? [] Yes [x] No

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

Name: Annalissa Philbin, Esq.

Internal Address: 588 SYS

Street Address: 4001 Discovery Drive, Suite 390

City: Boulder State: CO Zip: 80309

6. Total number of applications and patents involved: [1]

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

[x] Enclosed [] Authorized to be charged to deposit account

8. Deposit account number: _____

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9. Signature.

David N. Allen, Ph.D. Name of Person Signing

Signature

11 Nov 03 Date

Total number of pages including cover sheet, attachments, and documents: [6]

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Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

PATENT REEL: 014692 FRAME: 0538

PATENT ASSIGNMENT

THIS ASSIGNMENT is made effective as of April 30, 2002, by and between **UNIVERSITY TECHNOLOGY CORPORATION**, a Colorado nonprofit corporation ("*Assignor*") and **THE REGENTS OF THE UNIVERSITY OF COLORADO**, a body corporate ("*Assignee*").

WHEREAS, Assignee wishes to acquire and Assignor wishes to assign all of its right, title and interest in, to and under the patents and patent applications listed on **Exhibit A** attached hereto (collectively, the "*Patent Properties*").

NOW, THEREFORE, for good and valuable consideration paid by Assignee to Assignor, receipt of which is hereby acknowledged, Assignor agrees to sell, assign, transfer and set over and does hereby sell, assign, transfer and set over to Assignee, its entire right, title and interest in and to the Patent Properties, as well as the inventions claimed in such Patent Properties, for the United States and for all foreign countries, including any continuations, divisions, continuations-in-part, reissues or extensions thereof for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made; together with all claims for damages by reason of past, present or future infringement or other unauthorized use, with the right to sue for, and collect the same for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, or other legal representatives.

Assignor shall provide to Assignee, its successors, assigns or other legal representatives, cooperation and assistance at Assignee's reasonable request and reasonable expense (including the execution and delivery of any and all affidavits, declarations, oaths, assignments, powers of attorney or other documentation as may be reasonably required): (1) in the preparation and prosecution of any applications covering inventions assigned herein; (2) in the prosecution or defense of any interference, opposition, reexamination, reissue, infringement or other proceedings that may arise in connection with any of the patent rights assigned herein, including testifying as to any facts relating to the patent rights assigned herein and this Assignment; (3) in obtaining any additional patent protection that Assignee may deem appropriate which may be secured under the laws now or hereafter in effect in the United States or any other country; and (4) in the implementation or perfection of this Assignment.

IN TESTIMONY WHEREOF, the undersigned has executed this Patent Assignment to be effective as of the 30th day of April, 2002.

ASSIGNEE:

THE REGENTS OF THE UNIVERSITY OF COLORADO, a body corporate

By: 
Its: President

ASSIGNOR:

UNIVERSITY TECHNOLOGY CORPORATION, a Colorado nonprofit corporation

By: 
Its: President

STATE OF COLORADO)
) ss.
COUNTY OF BOULDER)

Before me, the undersigned, a Notary Public, in and for said County and State, personally appeared John W. Bliss as designee for the President of the University of Colorado, and acknowledged the execution of the foregoing Patent Assignment this 26th day of July, 2002.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my seal.

Margaret K. Annis
Notary Public
My commission expires: 2/8/03

STATE OF COLORADO)
) ss.
COUNTY OF BOULDER)

Before me, the undersigned, a Notary Public, in and for said County and State, personally appeared Jerry Donahue, President of University Technology Corporation, and acknowledged the execution of the foregoing Patent Assignment this 22 day of July, 2002.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my seal.

Anne Baudais
Notary Public
My commission expires: August 26, 2003

EXHIBIT A

PATENTS AND PATENT APPLICATIONS
[Schedules 1.2(c)(i) and (ii)]

Schedule 1.2(c)(i)

Issued Patents

U.S. Issued Patents

Patent Title	Disclosure No	File Date	Issue Date	Pat Ser No	Pat No	Licensee	Assignee
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Optical cooling of solids	1996.7108B	9/25/1995	4/1/1997		5,615,558		not shown (co-inventor, NIST)
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