

S-78,357

Form PTO1595

(Rev. 10/02)



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U.S. Department of Commerce
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Rev. 04/03/2006

To the Honorable Commissioner for Patents. Please record the attached original documents or copy thereof.

Name of conveying party(ies):
The Regents of the University of CaliforniaAdditional name(s) of conveying
party(ies) attached? ☐ Yes ☒ No

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date: 17 April 2006

2. Name and address of receiving party:

Name: Los Alamos National Security, LLC

Address:

Los Alamos National Laboratory

LC/IP, MS A187

Los Alamos, NM 87545

Additional name(s) address(es) attached

☐ Yes ☒ 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) 08/261,361

B. Patent No.(s) 5,456,082

Additional numbers attached ☐ Yes ☒ No5. Name and address of party to whom
correspondence concerning document should be
mailed:

Name: Bruce H. Cottrell

Registration No.: 30,620

Address: Los Alamos National Laboratory
LC/IP, MS A187
Los Alamos, NM 87545

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41):

\$ 40.00

☐ Enclosed☒ Authorized to be charged to deposit account8. Deposit account number 12-2150

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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.

Bruce H. Cottrell

15 May 2006

Name of person signing

Signature

Date

Total number of pages: 3

OMB No. 0651-0027 (exp. 6/30/05)

Fax documents to be recorded with required cover sheet to: (703) 306-5995

OR

Mail documents to be recorded with required cover sheet to: Commissioner for Patents
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PATENT

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5/18/06

ASSIGNMENTDOE S-78,357

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR,

The Regents of the University of California
1111 Franklin Street, Fifth Floor, Oakland, CA 94607-5200

The previous assignment of which was Recorded on June 16, 1994,
Reel 7059, Frame 0549.

hereby sells, assigns and transfers

to ASSIGNEE, Los Alamos National Security, LLC, a Delaware Limited Liability Company, at Los Alamos National Laboratory, LC/IP, Mail Stop A187, Los Alamos, NM 87545 and the successors, assigns and legal representatives of the ASSIGNEE

☒ its entire right, title and interest

☐ an undivided fifty percent (50%) interest

☐ an undivided ____ percent (_ %) interest

for the United States and its territorial possessions

☒ and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention titled:

PIN ARRAY STACK FOR THERMOACOUSTIC COOLING

Name of Inventor(s) Gregory W. Swift, Robert M. Keolian

and which is found in

(a) ☒ U.S. application Serial No. 08/261,361, filed on 6/16/1994.

(b) ☒ U.S. Patent No. 5,456,082, issued 10/10/1995.

☒ and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, continuation-in-part, extension or substitute thereof, and any reissue, reexamination or extension of said Letters Patent and all rights under all International Conventions for the Protection of Industrial Property;

☒ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

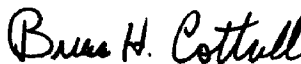
ASSIGNOR further covenants that **ASSIGNEE** will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to **ASSIGNOR** and will testify as to the same in any interference, litigation, or proceeding related thereto and will promptly execute and deliver to **ASSIGNEE** or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

AND the **ASSIGNOR** requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States and any reissue or extension thereof to the **ASSIGNEE**, Los Alamos National Security, LLC.

executed this

Signature of Assignor

17th day of April , 2006



Bruce H. Cottrell
IP Practice Group Leader