

FORM PTO-1619A

Expires 08/30/99  
OMB 0651-0027U.S. Department of Commerce  
Patent and Trademark Office  
PATENTRECORDATION FORM COVER SHEET  
PATENTS ONLY

S-87,602

TO: The Director of the United States Patent and Trademark Office; Please record the attached original document(s) or copy(ies).

## Submission Type

☐ New☐ Resubmission (Non-Recordation)

Document ID#

☐ Correction of PTO Error

Reel #

Frame #

☐ Corrective Document

Reel #

Frame #

## Conveyance Type

☐ Assignment☐ Security Agreement☐ License☐ Change of Name☐ Merger☒ Other ☐ Confirmatory License

U.S. Government

(For Use ONLY by U.S. Government Agencies)

☒ Departmental File☐ Secret File

## Conveying Party(ies)

☐ Mark If additional names of conveying parties attached

Name (line 1) LOCKHEED MARTIN ENERGY RESEARCH CORPORATION

Execution Date  
Month Day Year  
1/12/2000

Name (line 2)

Second Party

Name (line 1)

Execution Date  
Month Day Year

Name (line 2)

## Receiving Party

☐ Mark If additional names of receiving parties attached

Name (line 1) U. S. Department of Energy

Name (line 2)

Address (line 1) 1000 Independence Avenue, S.W.

Address (line 2)

Address (line 3) Washington

D.C.

20585-0162

City

State/Country

Zip Code

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

## Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

FOR OFFICE USE ONLY

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS

Mail documents to be recorded with required cover sheet(s) information to:

Mail Stop Assignment Recordation Services, Director of the United States Patent and Trademark Office,

P.O. Box 1450, Alexandria, VA 22313-1450

700288277

REEL: 018297 FRAME: 0664

FORM PTO-1619B

Expires 06/30/99  
OMB 0651-0027

Page 2

U.S. Department of Commerce  
Patent and Trademark Office  
PATENT

## Correspondent Name and Address

Area Code and Telephone Number

202-586-2805 (FAX)

Name Brenda K. Banks

Address (line 1) U. S. Department of Energy

Address (line 2) 1000 Independence Avenue, S.W.

Address (line 3) Washington, D. C. 20585-0162

Address (line 4) Telephone (Voice): 202-586-2802

## Pages

Enter the total number of pages of the attached conveyance document  
including any attachments.

# 1

## Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09/212,217

If this document is being filed together with a new Patent Application, enter the date the patent application  
was

Month Day Year

## Patent Cooperation Treaty (PCT)

Enter PCT application number  
only if a U.S. Application Number  
has not been assigned.

PCT

PCT

PCT

PCT

PCT

PCT

## Number of Properties

Enter the total number of properties involved.

# 1

## Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 0.00

Method of Payment:

Enclosed ☐Deposit Account ☐

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

#

Authorization to charge additional fees:

Yes ☐No ☒

## 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. Charges to deposit account are authorized, as  
indicated herein.

Brenda K. Banks

Name of Person Signing

Signature

Date

PATENT

REEL: 018297 FRAME: 0665

09/212, 217

DOE Docket No. ERID 0270  
S-87,602

## CONFIRMATORY LICENSE

Application for: Microfluidic Circuit Designs For Performing Electrokinetic Manipulations That Reduce The Number Of Voltage Sources And Fluid Reservoirs  
Inventor(s): Stephen C. Jacobson, J. Michael Ramsey  
Serial No.: 09/212, 217  
Filing Date (U.S.): December 16, 1998  
Contractor: Lockheed Martin Energy Research Corporation  
DOE Contract No.: DE-AC05-96OR22464

The invention identified above is a "Subject Invention" under the above-numbered contract. A copy of the provision of the above-numbered contract (certified on 11-8-95) governing patent rights in the Subject Invention at the time the invention was made has been submitted to the U. S. Department of Energy.

The Contractor hereby confirms that under the provisions of the above-numbered contract governing patent rights, it has granted to the Government a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the subject invention throughout the world. This license applies to the invention in the above-identified patent application and any and all divisions or continuations thereof and any resulting patent or reissue patent which may be granted thereon.

It is understood and agreed that this document does not preclude the Government from asserting rights under the provisions of said contract or any other agent between the Government and the Contractor, or any other rights of the Government with respect to the above-identified invention.

The Contractor hereby grants the Government an irrevocable power to inspect and make copies of the above-identified application.

Signed this 12 day of January, 2000.

Lockheed Martin Energy Research Corporation  
(Contractor)

By Dean A. Waters  
(Contractor's Official and Title)  
Dean A. Waters, Director  
Office of Technology Transfer

If the invention was made under a subcontract, please identify the Prime Contractor \_\_\_\_\_  
and Prime Contract No. \_\_\_\_\_