

02-23-2000



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U.S. DEPARTMENT OF COMMERCE  
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Recordation Form Cover Sheet - Patents

Assistant Commissioner for Patents  
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Washington, DC 20231

1-18-00

RECEIVED  
JAN 18 PM 12:30  
OPR/FINANCE

Please record the attached documents:

- 1) Name of conveying party(ies):  
Thomas G. Thundat  
Patrick I. Oden  
Robert J. Warmack  
Eric Laurent Finot
- 2) Name and address of receiving party(ies):  
Lockheed Martin Energy Research Corporation  
P.O. Box 2008  
Oak Ridge, Tennessee 37831-6255

- 3) Nature of conveyance: Assignment of Patent Application
- Additional name(s) & address(es) attached

Execution Date: January 4, 2000

- 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)

09/401,865

B. Patent No.(s)

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, DC 20231, on 1-11-00

Additional numbers attached? No

*[Signature]*  
Date: 11/11/2000

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

John B. Hardaway, III  
Registration No. 26,554  
HARDAWAY/MANN IP GROUP  
Nexsen Pruet Jacobs & Pollard, LLP  
Post Office Box 10107, Fed Sta  
Greenville, SC 29603-0107  
Telephone: (864) 370-2211

- 6) Total number of applications and/or patents involved: one (1)
- 7) Total fee enclosed (37 CFR 3.41): \$40.00
- 8) Please charge any deficiencies or credit any over payment to deposit account number 08-0719.

- 9) 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.

*[Signature]*  
J. Herbert O'Toole  
Reg. No. 31,404  
Date: January 11, 2000

Our Docket: - 25016/058  
Lockheed Martin

Total number of pages including cover sheet, attachments, and document: 7

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NPGVL1:85420.1-DOC-(JBH) 025206-00000

PATENT  
REEL: 010555 FRAME: 0827

## ASSIGNMENT OF PATENT APPLICATION

WHEREAS, I, the below-named inventor whose residence and post office is as stated below, have invented certain new and useful improvements in a

### MICROMECHANICAL TRANSIENT SENSOR FOR MEASURING VISCOSITY AND DENSITY OF A FLUID

for which an application for United States Letters Patent was filed on September 23, 1999, Serial No. 09/401,865.

WHEREAS, LOCKHEED MARTIN ENERGY RESEARCH CORPORATION, a corporation of the State of Delaware, having an office at Oak Ridge National Laboratory, Post Office Box 2008, Oak Ridge, Tennessee 37831-6255, hereinafter called the ASSIGNEE, is desirous of acquiring the entire right, title and interest in the application and invention and to any Letters Patent that may be granted therefor in the United States of America and in any and all foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign to ASSIGNEE the entire right, title and interest in the application and the invention, to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letter Patent on the invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or applications therefor on the invention.

I hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the Assignee.

Further, I hereby agree to communicate to said Assignee or its representatives any facts known to me respecting said invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said invention in the United States of America and in any and all foreign countries.

I further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on me, my heirs' legal representatives, and assigns.

Full name of first inventor: Thomas G. Thundat

Signature: *Thomas G. Thundat*

Date: 10/26/99

Residence: Knoxville, Tennessee  
P.O. Address: 616 Plainfield Road  
Knoxville, TN 37923

State of Tennessee )  
County of KOANE )

On this 26<sup>th</sup> day of OCTOBER, 19 99, before me, a Notary Public in and for the County and State aforesaid, appeared - Thomas G. Thundat to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

*Kirk A. Wilson*  
Notary Public

SEAL  
My Commission Expires: May 6, 2001

LME-65 025016/00058  
(Lockheed ID#0516)

Full name of second inventor: Patrick I. Oden

Signature: Patrick I. Oden

Date: 10/25/99

Residence: Plano, Texas  
P.O. Address: 3025 Princeton Drive  
Plano, Texas 75075

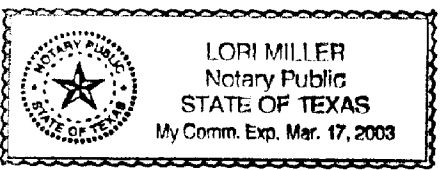
State of Texas )  
County of Dallas )

On this 25 day of Oct, 1999, before me, a Notary Public in and for the County and State aforesaid, appeared - Patrick L. Oden to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Lori Miller  
Notary Public

SEAL  
My Commission Expires: March 17 2003



LME-65 025016/00058  
(Lockheed ID#0516)

Full name of third inventor: Robert J. Warmack

Signature:

Robert J. Warmack

Date:

1/4/2000

Residence:

Knoxville, Tennessee

P.O. Address:

8915 Ormand Lane  
Knoxville, TN 37923

State of Tennessee )

County of Roane )

On this 4<sup>th</sup> day of January, <sup>2000</sup> 29 2000, before me, a Notary Public in and for the County and State aforesaid, appeared - Robert J. Warmack to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Shelley L. Stafford  
Notary Public

SEAL

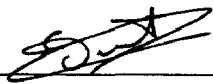
My Commission Expires:

Sept. 27, 2000

LME-65 025016/00058  
(Lockheed ID#0516)

Full name of fourth inventor: Eric Laurent Finot

Signature:



Date:

10.25.99

Residence:

Torcy, France

P.O. Address:

7 Promenade Paul Auguste Ray  
71210 Torcy, France

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me, a Notary Public in and for the County and State aforesaid, appeared - Eric Laurent Finot to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

\_\_\_\_\_  
Notary Public

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

SEAL

My Commission Expires: \_\_\_\_\_

LME-65 025016/00058  
(Lockheed ID#0516)