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3-26-99

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

Assistant Commissioner for Patents
Box Assignments
Washington, DC 20231

04-05-1999



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jc511 U.S. PTO
09/277081
03/26/99

Please record the attached documents:

1) Name of conveying party(ies):

Chain T. Liu
Michael P. Brady
Peter F. Tortorelli

2) Name and address of receiving party(ies):

Lockheed Martin Energy Research Corporation
701 Scarboro Road
P.O. Box 2009
Oak Ridge, TN 37831-8243

3) Nature of conveyance:

Assignment

Additional name(s) & address(es) attached - No.

Execution Date: March 24, 1999

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: March 24, 1999.

A. Patent Application No.(s)

B. Patent No.(s)

09/277081

Additional numbers attached? No.

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

John B. Hardaway, III
Registration No. 26,554
HARDAWAY LAW FIRM, P.A.
Post Office Box 10107, Fed Sta
Greenville, SC 29603-0107
Telephone: (864) 233-6700

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.

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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.

J. Herbert O'Toole
Registration No. 31,404
Date: March 26, 1999

Our Docket: LME-41

Total number of pages including cover sheet, attachments, and document: 6

PATENT
REEL: 9854 FRAME: 0169

ASSIGNMENT OF PATENT APPLICATION

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

DUAL-PHASE Cr-Ta ALLOYS FOR STRUCTURAL APPLICATIONS

for which an application for United States Letters Patent is executed by me on even date herewith, and

WHEREAS, LOCKHEED MARTIN ENERGY RESEARCH CORPORATION, a corporation of the State of Delaware, having an office at Bethel Valley Road, P.O. 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.

Executed this 24 day of March, 1999.

Michael P. Brady

Michael P. Brady
Address: 301 Briarcliff Avenue
Oak Ridge, TN 37830

STATE OF Tennessee)

COUNTY OF Reame)

Before me personally appeared said Michael P. Brady and
acknowledged the foregoing instrument to be his free act and deed
this 24th day of March, 1999.

James M. Spicer
Notary Public for the State of
Tennessee

(seal)

My Commission Expires:

August 16, 2000

Executed this 24 day of MARCH, 1999.

Peter F. Tortorelli
Peter F. Tortorelli
Address: 8817 Mallone Drive
Knoxville, TN 37922

STATE OF TENNESSEE)
COUNTY OF ROANE)

Before me personally appeared said Peter F. Tortorelli and
acknowledged the foregoing instrument to be his free act and deed
this 24th day of March, 1999.

James M. Spicer
Notary Public for the State of
Tennessee

(seal)

My Commission Expires:

August 16, 2000

LME-41
(ERID 0424)

Executed this 24 day of March, 1999.

Chain T. Liu
Chain T. Liu
Address: 122 Newell Lane
Oak Ridge, TN 37830

STATE OF TN)
COUNTY OF Roane)

Before me personally appeared said Chain T. Liu and
acknowledged the foregoing instrument to be his free act and deed
this 24th day of March, 1999.

James M. Spicer
Notary Public for the State of
Tennessee

(seal)

My Commission Expires: August 16, 2000

LME-41
(ERID 0424)