

08-28-2000

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To the Honorable Commissione

I the attached original documents or copy thereof.

1. Name of conveying party(ies):  
**Steven Clare Tilyou**  
**Timothy Michael Grewe**  
**Peter Frederic Hamilton**

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

2. Name and address of receiving party(ies)

Name: Lockheed Martin Corporation  
Internal Address: Attention: Patent Counsel

Street Address: 6801 Rockledge Drive

City: Bethesda State: MD ZIP: 20817

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: 6/27/00; 6/29/00; 7/11/00

4. Application number(s) or patent number(s): **52AY1362A, "Method and Apparatus for After-Treatment of HEV Exhaust"**

If this document is being filed together with a new application, the execution date of the application is: 6/27/00; 6/29/00  
7/11/00

A. Patent Application No.(s)

**60/148,308 filed 8/11/99**

E. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: William H. Meise  
Internal Address: Lockheed Martin Corporation  
608 - Bldg. 27  
P. O. Box 1561

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

City: King of Prussia State: PA ZIP: 19406

6. Total number of applications and patents involved: **2**

7. Total fee (37 CFR 3.41).....S **40.00**

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:  
**07-0576**

(Attach duplicate copy of this page if paying by deposit account)

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01 EC15A1-40,00 CH

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.

William H. Meise  
Name of Person Signing

William H. Meise  
Signature

July 21, 00  
Date

Total number of pages including cover sheet, attachments, and documents: **4**

**PATENT**

**ASSIGNMENT**

WHEREAS, I the below-named inventor whose residence and post office are as stated below, have invented certain new and useful improvements in "**Method and Apparatus for After-Treatment of HEV Exhaust**", claiming priority of provisional patent application 60/148,308, filed 8/11/99; and

WHEREAS, LOCKHEED MARTIN CORPORATION, a corporation of the State of Maryland, having an office at 6801 Rockledge Drive, Bethesda, MD 20817, hereinafter called the ASSIGNEE, is desirous of acquiring the entire right, title and interest in the application and the invention and to any Letters Patent that may be granted therefor in the United States of America and in any and all countries foreign thereto;

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 Letters Patent on the invention that may be granted in the United States of America and in any and all countries foreign thereto, 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 said ASSIGNEE.

Further, I hereby agree to communicate to said ASSIGNEE or its representatives any facts known to us respecting said invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, 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 countries foreign thereto.

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.

Name of first Inventor: Steven Clare Tilyou

Residence: 1007 Tracy Creek Road, Vestal, Broome County, NY

Post Office Address: 1007 Tracy Creed Road, Vestal, NY 13850-5115

Date: 7/20/02 Signature: [Signature]

1st Witness MOLLY R. HORTON  
(Type or Print)

[Signature]  
(Signature)

2nd Witness GEORGE H. KRAMS  
(Type or Print)

[Signature]  
(Signature)

Name of second Inventor: Timothy Michael Grewe

Residence: 535 PHANTOM COURT, Zionsville, INDIANA 46077  
~~2616 Laguna Drive, Endicott, Broome County, NY~~

Post Office Address: 2616 Laguna Drive, Endicott, NY 13760

Date: 7/11/2002 Signature: [Signature]

1st Witness Terry Ledgerwood  
(Type or Print)

[Signature]  
(Signature)

2nd Witness ARTHUR L. MCGREW JR.  
(Type or Print)

[Signature]  
(Signature)

Name of third Inventor: Peter Frederic Hamilton

Residence: 107 Cayuga Park Circle, Ithaca, Tompkins County, NY

Post Office Address: 107 Cayuga Park Circle, Ithaca, NY 18450

Date: 6-27-00 Signature: *Peter Hamilton*

1st Witness Molly R. Horton  
(Type or Print)

*Molly R. Horton*  
(Signature)

2nd Witness Rachel P. Acari  
(Type or Print)

*Rachel P. Acari*  
(Signature)

After this Assignment has been recorded please return to: Patent Operation  
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