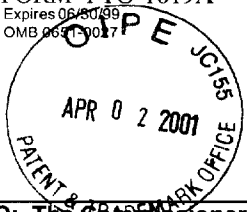


07-09-2001



101751747

4671
09/579,563



**RECORDATION FORM COVER SHEET
PATENTS ONLY**

4.701

TO: The Commissioner of Patents and Trademarks: 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 _____

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) Fred Mitchell Allen

Execution Date
Month Day Year
3 21 2001

Name (line 2) _____

Second Party

Name (line 1) Xiaolin David Yang

Execution Date
Month Day Year
3 26 2001

Name (line 2) _____

09579563

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) ENGELHARD CORPORATION

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.)

Name (line 2) _____

Address (line 1) 101 WOOD AVENUE

Address (line 2) _____

Address (line 3) ISELIN

NEW JERSEY

08830

City

State/Country

Zip Code

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 ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

Correspondent Name and Address Area Code and Telephone Number

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

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

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)		
<input type="text" value="09/579,563"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

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. #

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

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.

Richard A. Negin 

Name of Person Signing Signature Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

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.)

Name (line 2)

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Address (line 3)

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Address (line 3)

Application Number(s) or Patent Number(s)

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06-29-2000



101392613

U.S. Department of Commerce
Patent and Trademark Office

PATENT

4671

JUN 12

09/579,563

RECORDATION FORM COVER SHEET
PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: 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 _____

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) Fred Mitchell Allen Execution Date Month Day Year 05 25 00

Name (line 2) _____

Second Party Name (line 1) Xiaolin David Yang Execution Date Month Day Year 05 25 00

Name (line 2) _____

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) ENGELHARD CORPORATION 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.)

Name (line 2) _____

Address (line 1) 101 WOOD AVENUE

Address (line 2) _____

Address (line 3) ISELIN NEW JERSEY 08830
City State/Country Zip Code

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) _____

06/28/2000 ASCOTT 00000288 051070 09579563

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Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

PATENT
REEL: 11726 FRAME: 0560

Correspondent Name and Address Area Code and Telephone Number

Name

Address (line 1)

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

Application Number(s) or Patent Number(s) Mark if additional numbers attached

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

PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>
PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>

Number of Properties Enter the total number of properties involved. #

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


Method of Payment: Enclosed Deposit Account

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

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.

Richard A. Negin  June 8, 2000

Name of Person Signing Signature Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

Conveying Party(ies)

Mark if additional names of conveying parties attached

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Application Number(s) or Patent Number(s)

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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)

ASSIGNMENT

Joint

WHEREAS, WE,

Fred Mitchell Allen; Xiaolin David Yang; Ronald Marshall Heck; Jeffrey B. Hoke; Earl Marvin Waterman; Xinsheng Liu; Dennis Ray Anderson; Arthur Bruce Robertson; Terence Christopher Poles and Wayne M. Rudy

citizens of USA, USA, USA, USA, USA, The People's Republic of China, USA, USA, USA, USA respectively, are the inventors of an invention in

System for Sensing Catalyst Coating Loss and Efficiency

for which we have executed an application for Letters Patent of the United States, filed May 26, 2000 and assigned Serial No. 09/579,563; and

WHEREAS, ENGELHARD CORPORATION is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we the undersigned have sold assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ENGELHARD CORPORATION, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said invention in any country or countries foreign to the United States, and all Letters Patent which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof and all rights of priority in any such country or countries based upon the filing of the said application for Letters Patent of the United States which are created by any law, treaty or international convention; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said invention to the said ENGELHARD CORPORATION, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to said ENGELHARD CORPORATION, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ENGELHARD CORPORATION, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention in all countries.

IN TESTIMONY WHEREOF, we hereunto set our hands and seals the day and year set opposite our respective signatures.

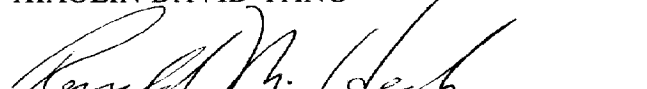
Date 3/21, 2001


FRED MITCHELL ALLEN

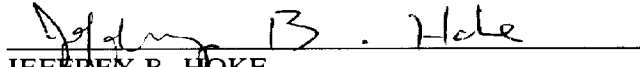
Date 3/26, 2001


XIAOLIN DAVID YANG

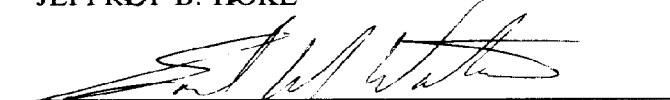
Date 3/23, 2001


RONALD MARSHALL HECK

Date 3/27, 2001


JEFFREY B. HOKE

Date 3/23, 2001


EARL MARVIN WATERMAN

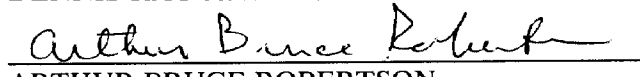
Date 3/22, 2001


XINSHENG LIU

Date 3/27, 2001


DENNIS RAY ANDERSON

Date 3/22/01, 2001


ARTHUR BRUCE ROBERTSON

Date 3/22/01, 2001


TERENCE CHRISTOPHER POLES

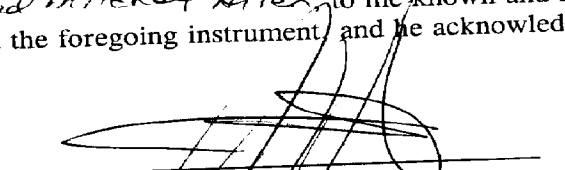
Date 3/20/01, 2001


WAYNE M. RUDY

State of New Jersey)
County of Middlesex) ss.:

PATENT

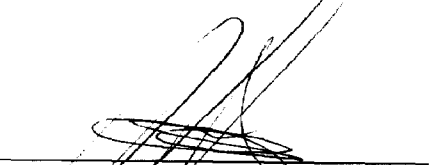
On this 21st day of MARCH, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared Fred Mitchell Allen, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.


Notary Public
PHYLLIS NOVA
Notary Public of New Jersey
My Commission Expires August 31, 2004

State of New Jersey)
County of Middlesex) ss.:


On this 26th day of MARCH, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared Xiaolin David Yang, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

State of New Jersey)
County of Middlesex) ss.:


Notary Public
PHYLLIS NOVA
Notary Public of New Jersey
My Commission Expires August 31, 2004


On this 23rd day of MARCH, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared Benala Marston Hack, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

State of New Jersey)
County of Middlesex) ss.:


Notary Public
PHYLLIS NOVA
Notary Public of New Jersey
My Commission Expires August 31, 2004


On this 27th day of March, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared Jeffrey B. Heik, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

State of New Jersey)
County of Middlesex) ss.:



Notary Public
PHYLLIS NOVA
Notary Public of New Jersey
My Commission Expires August 31, 2004

On this 28th day of March, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared Earl Marvin Wetmore, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.

State of New Jersey)
County of Middlesex) ss.:

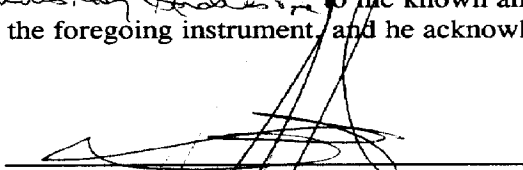

Notary Public
PHYLLIS NOVA
Notary Public of New Jersey
My Commission Expires August 31, 2004

On this 22nd day of MARCH, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared Xinsheng Hien, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.


Notary Public
PHYLLIS NOVA
Notary Public of New Jersey
My Commission Expires August 31, 2004

State of *New Jersey*)
County of *Middlesex*) ss.:

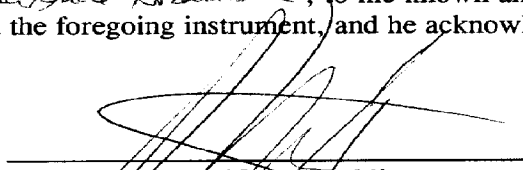
On this *27th* day of *March*, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared *Louis Ray Anderson*, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.



Notary Public
PHYLLIS NOVA
Notary Public of New Jersey
My Commission Expires August 31, 2004

State of *New Jersey*)
County of *Middlesex*) ss.:

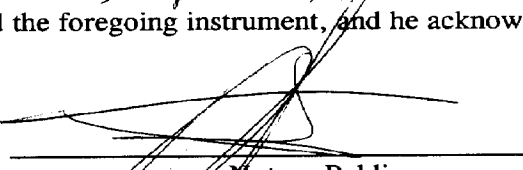
On this *22nd* day of *March*, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared *Arthur Bruce Robertson*, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.



Notary Public
PHYLLIS NOVA
Notary Public of New Jersey
My Commission Expires August 31, 2004

State of *New Jersey*)
County of *Middlesex*) ss.:

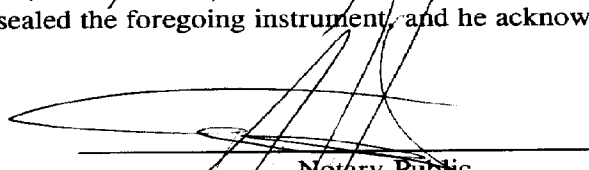
On this *23rd* day of *March*, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared *Terance Christopher Peltz*, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.



Notary Public
PHYLLIS NOVA
Notary Public of New Jersey
My Commission Expires August 31, 2004

State of *New Jersey*)
County of *Middlesex*) ss.:

On this *28th* day of *March*, 2001, before me, a Notary Public in and for the State and County aforesaid, personally appeared *Wayne M. Rudy*, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and he acknowledged the same to be his free act and deed.



Notary Public
PHYLLIS NOVA
Notary Public of New Jersey
My Commission Expires August 31, 2004