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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
James Vartuli (7/13/05) Stephen J. McCarthy (7/13/05)
Jeffrey T. Elks (7/13/05)
El-Mekki El-Malki (7/13/05)
William G. Borghard (7/13/05)
Doron Levin (7/14/05)

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: Please see dates above.

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

Name: ExxonMobil Chemical Patents Inc.

Internal Address: _____

Street Address: 13501 Katy FreewayCity: Houston State: TX ZIP: 77079Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

11/141,483 filed on
31 May 2005

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Andrew B. Griffis

Internal Address: ExxonMobil Chemical Company,
Law Technology

Street Address: 5200 Bayway Drive, P. O. Box 2149City: Baytown State: TX ZIP: 775226. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41):.....\$ 40.00

- ☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account
☒ Authorized to be charged to deposit account

8. Deposit account number:

05-1712

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9. 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.

Andrew B. Griffis (Reg No. 36,336)

Name of Person Signing

Signature

15 July 2005

Date

Total number of pages including cover sheet, attachments, and document: 8

Mail documents to be recorded with required cover sheet information to:

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PATENT
REEL: 016538 FRAME: 0423

CH \$40.00 061712 11141483

ASSIGNMENT**INVENTOR or INVENTORS:****JAMES VARTULI****EL-MEKKI EL-MALKI****DORON LEVIN****JEFFREY T. ELKS****WILLIAM G. BORGHARD****STEPHEN J. MCCARTHY**

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of and/or promise of payment which is hereby acknowledged, the undersigned person(s) named above, herein referred to as UNDERSIGNED, hereby agree(s) as follows:

- 1) UNDERSIGNED hereby assign(s) to ExxonMobil Chemical Patents Inc., a corporation of Delaware, its successors, legal representatives and assigns, herein referred to collectively as ASSIGNEE, the entire right, title and interest, for the United States and all foreign countries, in and to UNDERSIGNED'S invention or improvement and to all patent applications and patents covering same which is described in a patent application entitled

MIXED METAL OXIDE CONTAINING SULFUR

said application having been executed on the 13th & 14th day(s) of July 2005, and being further identified as USSN 11/141483 or Case No. 2005B054; and all rights of priority created by said application under provisions of international conventions or treaties.

- 2) UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for and documents relating to obtaining patents and the prosecution thereof for said invention or improvement, and any continuations of such applications or substitutes therefor or registrations thereof, and any specific separate assignments of any of the above required for recording in the United States Patent and Trademark Office and any foreign patent office that ASSIGNEE may deem necessary or expedient.
- 3) UNDERSIGNED agree(s) that in the event of any application based on said assigned invention or improvement, or patent issued thereon, or any reissue or application for the reissue thereof, becoming involved in priority of invention proceedings, UNDERSIGNED will cooperate with ASSIGNEE to the best of the ability of UNDERSIGNED in the matter of preparing and executing all documents and giving and producing evidence in support thereof.
- 4) UNDERSIGNED agree(s) to perform upon ASSIGNEE's request any and all affirmative acts to obtain United States and foreign patents covering said invention or improvement and to vest all rights therein hereby conveyed to ASSIGNEE, as fully and as entirely as the same would have been held and enjoyed by UNDERSIGNED if this assignment and sale had not been made.
- 5) UNDERSIGNED hereby authorize(s) ASSIGNEE's attorney to insert at paragraph 1, in this instrument the date(s) on which UNDERSIGNED executed the Declaration for the above-referenced patent application.

opposite UNDERSIGNED'S NAME.

DATE 7/13/05 Jane C. Vartuli
JAMES VARTULI[Signature]
WitnessDATE July 13, 2005 Jeffrey T. Elks
JEFFREY T. ELKSBrenda A. Raich
WitnessDATE July 13, 2005 El-Mekki El-Malki
EL-MEKKI EL-MALKI[Signature]
WitnessDATE July 13, 2005 William G. Borghard
WILLIAM G. BORGHARDBrenda A. Raich
WitnessDATE _____
DORON LEVIN_____
WitnessDATE July 13, 2005 Stephen J. McCarthy
STEPHEN J. MCCARTHYJason Wu
Witness

ASSIGNMENT

INVENTOR or INVENTORS:

JAMES VARTULI

EL-MEKKI EL-MALKI

DORON LEVIN

JEFFREY T. ELKS

WILLIAM G. BORGHARD

STEPHEN J. MCCARTHY

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- 1) UNDERSIGNED hereby assign(s) to ExxonMobil Chemical Patents Inc., a corporation of Delaware, its successors, legal representatives and assigns, herein referred to collectively as ASSIGNEE, the entire right, title and interest, for the United States and all foreign countries, in and to UNDERSIGNED'S invention or improvement and to all patent applications and patents covering same which is described in a patent application entitled

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said application having been executed on the 14th & 13th day(s) of July 2005, and being further identified as USSN 11/141483 or Case No. 2005B054; and all rights of priority created by said application under provisions of international conventions or treaties.

- 2) UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for and documents relating to obtaining patents and the prosecution thereof for said invention or improvement, and any continuations of such applications or substitutes therefor or registrations thereof, and any specific separate assignments of any of the above required for recording in the United States Patent and Trademark Office and any foreign patent office that ASSIGNEE may deem necessary or expedient.
- 3) UNDERSIGNED agree(s) that in the event of any application based on said assigned invention or improvement, or patent issued thereon, or any reissue or application for the reissue thereof, becoming involved in priority of invention proceedings, UNDERSIGNED will cooperate with ASSIGNEE to the best of the ability of UNDERSIGNED in the matter of preparing and executing all documents and giving and producing evidence in support thereof.
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- 5) UNDERSIGNED hereby authorize(s) ASSIGNEE's attorney to insert at paragraph 1, in this instrument the date(s) on which UNDERSIGNED executed the Declaration for the above-referenced patent application.

IN WITNESS WHEREOF, this assignment has been executed by UNDERSIGNED on the date opposite UNDERSIGNED'S NAME.

DATE _____
JAMES VARTULI

Witness

DATE _____
JEFFREY T. ELKS

Witness

DATE _____
EL-MEKKI EL-MALKI

Witness

DATE _____
WILLIAM G. BORGHARD

Witness

DATE 7/14/05 _____
DORON LEVIN

Patricia D. McBurn
Witness

DATE _____
STEPHEN J. MCCARTHY

Witness