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TO: EXXONMOBIL RESEARCH AND ENGINEERING CO. COMPANY: 1545 ROUTE 22 EAST

# PATENT ASSIGNMENT

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**NEW ASSIGNMENT** SUBMISSION TYPE:

**ASSIGNMENT** NATURE OF CONVEYANCE:

#### CONVEYING PARTY DATA

Name	Execution Date
Mr. Robert F. Tammera	06/23/2009
Mr. Edward Nicholas Jones	07/09/2009
Mr. Christopher G. Smalley	08/25/2009
Mr. Phillip A. Deis	08/25/2009
Mr. Alvin U. Chen	06/25/2009
Mr. Christopher S. Gurcluilo	06/24/2009

### RECEIVING PARTY DATA

Name:	ExxonMobil Research and Engineering Company
Street Address:	1545 Route 22 East
Internal Address:	P. O. Box 900
City:	Annandale
State/Country:	NEW JERSEY
Postal Code:	06801-0900

## PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	12387834	

### CORRESPONDENCE DATA

Fax Number:

(908)730-3649

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone:

908-730-3675

Email:

gail.f.summerfield@exxonmobil.com

Correspondent Name:

ExxonMobil Research and Engineering Co.

Address Line 1:

1545 Route 22 East

Address Line 2;

P. O. Box 900

Address Line 4:

Annandale, NEW JERSEY 08801-0900

ATTORNEY DOCKET NUMBER:

2008EM132-US2 12/387,834

PATENT REEL: 022961 FRAME: 0448

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TO: EXXONMOBIL RESEARCH AND ENGINEERING CO. .COMPANY: 1545 ROUTE 22 EAST

NAME OF SUBMITTER:

Bruce M. Bordelon

Total Attachments: 1
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PATENT REEL: 022961 FRAME: 0449

USSN 12/387,834 Filed May 8, 2009

### ASSIGNMENT INVENTOR or INVENTORS:

Robert F. Tammera Alvin U. Chen

Edward Nicholas Jones Christopher S. Gurciullo Christopher G. Smalley

Phillips A. Deis

For good and valuable consideration, the undersigned person(s) named above, herein referred to as UNDERSIGNED, hereby agree(s) as follows:

1) UNDERSIGNED hereby assign(s) to ExxonMobil Research and Engineering Company (formerly Exxon Research and Engineering Company), 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 cntitled

IMPROVED FCC REACTOR AND RISER DESIGN FOR SHORT CONTACT-TIME CATALYTIC CRACKING OF HYDROCARBONS

23rd,24th, 25th June said application having been executed on the 9th day(s) of \_\_July\_ further identified as Docket Number 2008EM132-US2 (BMB-0907); 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 ASSIGNED, 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 to insert 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 tINDERSIGNED on the date opposite UNDERSIGNED's NAME.

Christopher S. Guzciullo

PATENT TRADEMARK OFFICE

Family Number: \_2008EM132-US2

PATENT REEL: 022961 FRAME: 0450

RECORDED: 07/13/2009