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Form Pto-1595
(Rev. 6-93)

RECORDAT



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OMB No. 0651-0011 (exp. 4/94)

8-1304

PATENT OFFICE
102819577

88-2083A

To the Honorable Commissioner for Patents: Please record the attached original documents or copy thereof.

22581 U.S. PTO
10/19/18164
081304

1. Name of conveying parties:

- (1) David J. DeAngelo
- (2) Denise R. Karstensen
- (3) Bala S. Devakottai
- (4) Shane L. Fandry

Additional name(s) of conveying party attached: () Yes (X) No.

2. Name and address of receiving party:

Name: EQUISTAR CHEMICALS, LP

Internal Address: SAME

Street Address: One Houston Center
1221 McKinney Street

City: Houston State TX Zip 77010

Additional name(s) & address(es) attached: () Yes (x) No

3. Nature of conveyance:

- Assignment () Merger
- () Security Agreement () Change of Name
- () Other _____

Execution Dates: (1) August 4, 2004;
(2) August 4, 2004; (3) August 11, 2004;
(4) August 11, 2004

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

If this document is being filed together with a new application, the execution dates of the application are: August 4, 2004, and August 11, 2004

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? () Yes (x) No.

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

Name: Dennis M. Kozak

Internal Address: Legal Department

Street Address: Lyondell Chemical Company

3801 West Chester Pike

City: Newtown Square State PA Zip 19073

CUSTOMER NUMBER: 24114

6. Total number of applications and patents involved: ONE

7. Total fee (37 CFR 3.41) \$40.00

- () Enclosed
- Authorized to be charged to deposit account

8. Deposit Account Number: 01-2230

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

DO NOT USE THIS SPACE

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.

Dennis M. Kozak
Name of Person Signing
Reg. No. 28,318

Signature

August 13, 2004
Date

Total number of pages including cover sheet, attachments, and document: 3

08/20/2004 MUELLER 00000048 012230 10918164

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PATENT
REEL: 015692 FRAME: 0077

ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

David J. DeAngelo, 3020 Lake Side Drive, Coal City, Illinois 60416, USA
Denise R. Karstensen, 3775 W. Minooka Road, Morris, Illinois 60450, USA
Bala S. Devakottai, 402 Lake Bend Drive, Sugar Land, Texas 77479, USA
Shane L. Fandry, 2720 Village Dale Avenue, Houston, Texas 77059, USA

(hereinafter referred to as ASSIGNOR), has invented and owns a certain invention entitled:

Title of Invention: **HYDROCARBON CRACKING**

for which application for Letters Patent of the United States has been filed on

Particulars of Application under Serial No. and

WHEREAS: EQUISTAR CHEMICALS, LP
One Houston Center
1221 McKinney Street
Houston, Texas 77010

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

ASSIGNOR hereby covenants that no assignment, sale, agreement, or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Full Names of Inventors:


David J. DeAngelo

Date

8/4/04


Denise R. Karstensen

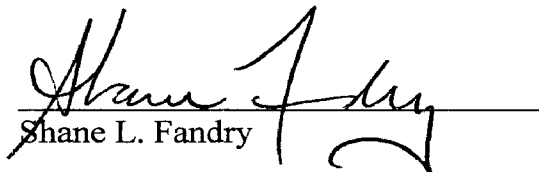
Date

8/4/04


Bala S. Devakottai

Date

8/11/04


Shane L. Fandry

Date

8/11/04