

FORM PTO-1595  
(Rev. 6-93)

# RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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

## PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

**VASANT P. THAKKAR**

**TOM N. KALNES**

**RICHARD K. HOEHN**

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

3. Nature of conveyance:

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other _____	

Execution Date: **12/7/00, 12/6/00, 12/7/00**

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

Name: **UOP LLC**

Internal address:

Street Address: **25 EAST ALGONQUIN ROAD  
P.O. BOX 5017**

City: **DES PLAINES** State: **ILLINOIS** Zip: **60017-5017**

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

4. Application number(s) or patent number(s):  
If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s)

**09/738,452**

Additional numbers attached? Yes  No

B. Patent No.(s)

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

Name: **UOP LLC**

Internal address: **ATTN: JOHN G. TOLOMEI**

Street Address: **25 EAST ALGONQUIN ROAD  
P.O. BOX 5017**

City: **DES PLAINES** State: **ILLINOIS** Zip: **60017-5017**

6. Total number of applications and patents involved: **1**

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

Enclosed  Authorized to be charged to deposit account

8. Deposit account number:

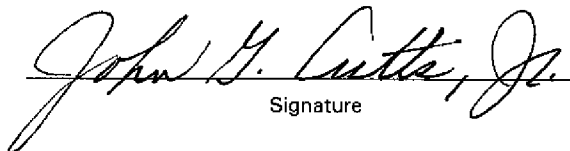
**21-0600**

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

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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.*

**JOHN G. CUTTS, JR.**  
Name of Person Signing



Signature

**10 Dec. 2001**  
Date

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

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

# ASSIGNMENT

 U.S. Provisional Application

 U.S. Utility Patent Application

 Attorney Docket No. 105426

WHEREAS, VASANT P. THAKKAR, a citizen of THE UNITED STATES OF AMERICA, residing in the City of ELK GROVE VILLAGE, in the County of COOK and State of ILLINOIS, TOM N. KALNES, a citizen of THE UNITED STATES OF AMERICA, residing in the City of LA GRANGE, in the County of COOK and State of ILLINOIS, and RICHARD K. HOEHN, a citizen of THE UNITED STATES OF AMERICA, residing in the City of JOINT PROSPECT, in the County of COOK and State of ILLINOIS, and hereinafter referred to as "the inventors" have invented certain new and useful improvements in

## HYDROCRACKING PROCESS FOR PRODUCTION OF LPG AND DISTILLATE HYDROCARBONS;

WHEREAS, the inventors hereby authorize and request their attorney/agent of record to have inserted on each page (where indicated below) the filing date and application number of said application when known; and

WHEREAS, UOP LLC, a company organized and existing under the laws of the State of Delaware having a principal place of business at Des Plaines, Illinois, is desirous of acquiring an interest in and to said application, the inventions disclosed therein, and the Letters Patent of the United States that may be issued thereon.

NOW, THEREFORE in consideration of the sum of One Dollar (\$1.00) and other good and valuable considerations the receipt of which is hereby acknowledged, said inventors do hereby transfer, set over and assign unto said UOP LLC, its successors and assigns, the entire right, title and interest in, to and under said application; the invention(s) covered thereby; any and all resultant patent or patents thereon; any renewals, reissues, extensions, reexaminations, substitutions, continuations, or divisions thereof, and all foreign rights thereunder including all rights to claim any priority in and to the inventions disclosed therein. Inventors hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said UOP LLC, its successors and assigns.

Serial No. 09/738 452 filed 12-18-2000

Attorney Docket No. 105426

PATENT  
Page 1 of 2  
REEL: 012228 FRAME: 0982

IN WITNESS WHEREOF, the inventors have set their signatures hereunto on the date specified below.

V.P. Thakkar 12/7/2000 12/7/2000  
VASANT P. THAKKAR Date Date Executed  
Application for Letters Patent

State of ILLINOIS  
County of COOK

Before me, on this day, December 7, 2000, personally appeared VASANT P. THAKKAR, to me personally known, who duly acknowledged the foregoing instrument to be his/her free and voluntary act and deed for the purposes therein expressed.

SEAL OFFICIAL SEAL ALICE E SIGNORINI NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES: 02/23/01  
Alice E. Signorini  
Notary Public

Tom N. Kalnes 12/06/00 12/6/2000  
TOM N. KALNES Date Date Executed  
Application for Letters Patent

State of ILLINOIS  
County of COOK

Before me, on this day, December 6, 2000, personally appeared TOM N. KALNES, to me personally known, who duly acknowledged the foregoing instrument to be his/her free and voluntary act and deed for the purposes therein expressed.

SEAL OFFICIAL SEAL ALICE E SIGNORINI NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES: 02/23/01  
Alice E. Signorini  
Notary Public

Richard K. Hoehn 12/07/00 12/7/2000  
RICHARD K. HOEHN Date Date Executed  
Application for Letters Patent

State of ILLINOIS  
County of COOK

Before me, on this day, December 7, 2000, personally appeared RICHARD K. HOEHN, to me personally known, who duly acknowledged the foregoing instrument to be his/her free and voluntary act and deed for the purposes therein expressed.

SEAL OFFICIAL SEAL ALICE E SIGNORINI NOTARY PUBLIC, STATE OF ILLINOIS MY COMMISSION EXPIRES: 02/23/01  
Alice E. Signorini  
Notary Public

Serial No. 09/738 452 filed 12-18-2000