

Form PTO-1595 (Rev. 10/02) **RECORDATION FORM COVER SHEET PATENTS ONLY** U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Tom N. Kalnes
Stephen R. Dunne
Vasant P. Thakkar

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

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

11/9/02, 11/9/01, 11/9/01

Execution Date: _____

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: **IL** 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) _____
09/992,163

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: **IL** 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

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9. Signature.
JOHN G. CUTTS, JR.

 Name of Person Signing *John G. Cutts, Jr.* Signature **JUNE 19, 2003** Date

Total number of pages including cover sheet, attachments, and documents: **4**

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

CH \$40.00 210600 09992163

ASSIGNMENT

U.S. Provisional Application

U.S. Utility Patent Application

Attorney Docket No. 106461

WHEREAS, **Tom N. Kalnes**, a citizen of United States of America, residing in the City of LaGrange, in the County of Cook and State of Illinois; **Stephen R. Dunne**, a citizen of United States of America, residing in the City of Algonquin, in the County of Kane and State of Illinois, and **Vasant P. Thakkar**, a citizen of United States of America, residing in the City of Elk Grove Village, in the County of Cook and State of Illinois, and hereinafter referred to as "the inventors" have invented certain new and useful improvements in

MULTIREACTOR PARALLEL FLOW HYDROCRACKING PROCESS

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.

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

Application No. 09/992 163 filed 11-6-01

Atty. Docket # 106461

Tom N. Kalnes
Tom N. Kalnes

11/9/01
Date

11/9/01
Date Executed
Application for Letters Patent

State of Illinois
County of Cook

Before me, on this day, November 9, 2001, 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



Susan A. Burt
Notary Public

Stephen R. Dunne
Stephen R. Dunne

11/9/01
Date

11/9/01
Date Executed
Application for Letters Patent

State of Illinois
County of Cook

Before me, on this day, November 9, 2001, personally appeared **Stephen R. Dunne**, 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



Susan A. Burt
Notary Public

V.P. Thakkar
Vasant P. Thakkar

11-9-01
Date

November 9, 2001
Date Executed
Application for Letters Patent

State of Illinois
County of Cook

Before me, on this day, November 9, 2001, 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



Susan A. Burt
Notary Public

Application No. 09/992 163 filed 11-6-01

Atty. Docket # 106461

RECORDED: 06/19/2003

PATENT
Form 3-21-00
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