

Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005) Tab settings	RECORDATION FORM COVER SHEET PATENTS ONLY	U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.		
1. Name of conveying party(ies): Brian W. Hedrick Paolo Palmas Daniel N. Myers Michael C. Newman Agnieszka Ziolkiewicz-Dydak Andrew W. Broerman Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies) Name: <u>UOP LLC</u> Internal Address: _____ _____ Street Address: <u>25 EAST ALGONQUIN ROAD</u> <u>P.O. BOX 5017</u> City: <u>DES PLAINES</u> State: <u>IL</u> Zip: <u>60017-5017</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 _____ <u>8/19/03, 8/26/03, 8/20/03,</u> <u>9/3/03, 8/13/03, 7/25/03</u> Execution Date: _____		
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) _____ <u>10/461,139</u> B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>UOP LLC</u> Internal Address: <u>ATTN: JOHN G. TOLOMEI</u> _____ Street Address: <u>25 EAST ALGONQUIN ROAD</u> <u>P.O. BOX 5017</u> City: <u>DES PLAINES</u> State: <u>IL</u> Zip: <u>60017-5017</u>	6. Total number of applications and patents involved: <input type="text" value="1"/> 7. Total fee (37 CFR 3.41).....\$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account: 8. Deposit account number: <u>21-0600</u>	
DO NOT USE THIS SPACE		
9. Signature. <div style="display: flex; justify-content: space-between; align-items: flex-end; margin-top: 20px;"> <div style="text-align: center;"> <u>Frank S. Molinaro</u> Name of Person Signing </div> <div style="text-align: center;"> Signature </div> <div style="text-align: center;"> <u>September 15, 2003</u> Date </div> </div> Total number of pages including cover sheet, attachments, and documents: <input type="text" value="6"/>		

CH \$40.00 210600 10461139

 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. 106362

WHEREAS, **BRIAN W. HEDRICK**, a citizen of THE UNITED STATES OF AMERICA, residing in the City of ROLLING MEADOWS, in the County of COOK and State of ILLINOIS, **PAOLO PALMAS**, a citizen of THE UNITED STATES OF AMERICA, residing in the City of DES PLAINES, in the County of COOK and State of ILLINOIS, **DANIEL N. MYERS**, a citizen of THE UNITED STATES OF AMERICA, residing in the City of ARLINGTON HEIGHTS, in the County of COOK and State of ILLINOIS, **MICHAEL C. NEWMAN**, a citizen of THE UNITED STATES OF AMERICA, residing in the City of OAK PARK, in the County of COOK and State of ILLINOIS, **AGNIESZKA ZIOLKIEWICZ-DYDAK**, a citizen of THE UNITED STATES OF AMERICA, residing in the City of GROVES, in the County of JEFFERSON and State of TEXAS, and **ANDREW W. BROERMAN**, a citizen of THE UNITED STATES OF AMERICA, residing in the City of VINCENNES, in the County of KNOX and State of INDIANA, and hereinafter referred to as "the inventors" have invented certain new and useful improvements in

APPARATUS AND PROCESS FOR MINIMIZING CATALYST RESIDENCE TIME IN A REACTOR VESSEL

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. 10/461,139 filed June 13, 2003

Atty. Docket # 106362

PATENT (Rev. 03-21-00)
REEL: 013972 FRAME: 0851

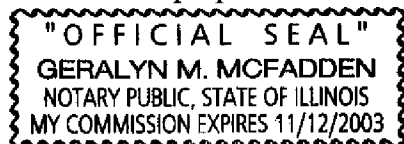
Brian W. Hedrick 8/19/2003
Brian W. Hedrick Date

Brian W. Hedrick 8/19/2003
Date Executed
Application for Letters Patent

State of Illinois
County of Cook

Before me, on this day, 08-19-03, personally appeared **BRIAN W. HEDRICK**, 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



Geralyn M. McFadden
Notary Public

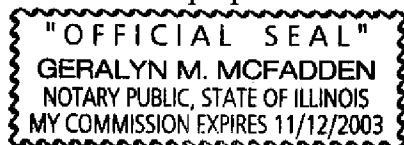
Paolo Palmas 8/26/03
Paolo Palmas Date

8/26/03
Date Executed
Application for Letters Patent

State of Illinois
County of Cook

Before me, on this day, 08-26-03, personally appeared **PAOLO PALMAS**, 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



Geralyn M. McFadden
Notary Public

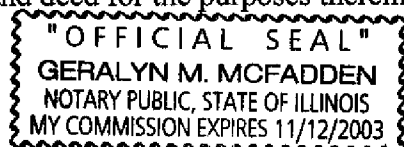
Daniel N. Myers 8-20-03
Daniel N. Myers Date

8-20-03
Date Executed
Application for Letters Patent

State of Illinois
County of Cook

Before me, on this day, 08-20-03, personally appeared **DANIEL N. MYERS**, 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



Geralyn M. McFadden
Notary Public

Application No. 10/461,139 filed June 13, 2003

Atty. Docket # 106362

Andrew W. Broerman 7/25/03
Andrew W. Broerman Date

Before me, on this 25th day of July, 2003, personally appeared **ANDREW W. BROERMAN**, 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.

Signature of Witness Connie L. Ingram

PRINTED Name of Witness Connie L. INGRUM

Address R.R-1, Box 242A
Bridgeport, IL 62417



Application No. 10/461,139 filed June 13, 2003

Atty. Docket # 106362
RECORDED: 09/15/2003

PATENT (Rev. 03-21-00)
REEL: 013972 FRAME: 0854