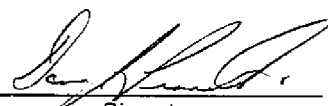


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| <p>Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005)</p> <p>Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼</p> | <p>RECORDATION FORM COVER SHEET PATENTS ONLY</p> | <p>U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office</p> |
| <p>To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.</p> | | |
| <p>1. Name of conveying party(ies): Mohamed S.M. Skakur Joseph Agnello Kevin J. Richardson Nicholas F. Urbanski</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | <p>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</p> | |
| <p>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 _____</p> <p style="text-align: center;">10/5/01, 10/5/01, 10/4/01, 10/4/01</p> <p>Execution Date: _____</p> | <p>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>09/973,393</u> B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> | |
| <p>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></p> | <p>6. Total number of applications and patents involved: <u>1</u> 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></p> | |
| <p>DO NOT USE THIS SPACE</p> | | |
| <p>9. Signature. <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: center;"> <p>David J. Piasecki</p> <p>_____ Name of Person Signing</p> </div> <div style="text-align: center;">  <p>_____ Signature</p> </div> <div style="text-align: center;"> <p>September 4, 2003</p> <p>_____ Date</p> </div> </div> <p style="text-align: right;">Total number of pages including cover sheet, attachments, and documents: <u>5</u></p> </p> | | |

Mail documents to be recorded with required cover sheet information to:
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PATENT
REEL: 013944 FRAME: 0754

ASSIGNMENT

☐ U.S. Provisional Application☒ U.S. Utility Patent ApplicationAttorney Docket No. 106290

WHEREAS, **Mohamed S.M. Shakur**, a citizen of United States of America, residing in the City of Amherst, in the County of Erie, and State of New York; **Joseph Agnello**, a citizen of United States of America, residing in the City of Grand Island, in the County of Erie, and State of New York; **Kevin J. Richardson**, a citizen of United States of America, residing in the City of Hamburg, in the County of Erie and State of New York; and **Nicholas F. Urłanski**, a citizen of United States of America, residing in the City of DePew, in the County of Erie, and State of New York; and hereinafter referred to as "the inventors" have invented certain new and useful improvements in

MULTIPLE DOWNCOMER FRACTIONAL DISTILLATION TRAY AND 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. 09/973 393 filed 10-9-01Atty. Docket # 106290

PATENT 3-21-00

REEL: 013944 FRAME: 0755

Mohamed S.M. Shakur
Mohamed S.M. Shakur

10/5/01
Date

10/5/01
Date Executed
Application for Letters Patent

State of New York
County of Erie

Before me, on this day, Oct 5, 2001, personally appeared **Mohamed S.M. Shakur**, 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

Julie A. Demmin
Notary Public
JULIE A. DEMMIN
Notary Public, State of New York
Qualified in Erie County
My Commission Expires 4/5/03

Joseph Agnello
Joseph Agnello

10-4-01
Date

10-4-01
Date Executed
Application for Letters Patent

State of New York
County of Erie

Before me, on this day, Oct. 5, 2001, personally appeared **Joseph Agnello**, 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

Julie A. Demmin
Notary Public
JULIE A. DEMMIN
Notary Public, State of New York
Qualified in Erie County
My Commission Expires 4/5/03

09/973 393

Application No. _____ filed 10-9-01

Atty. Docket # 106290

Kevin J. Richardson
Kevin J. Richardson

Oct. 4, 2001
 Date

Oct 4, 2001
 Date Executed
 Application for Letters Patent

State of New York
 County of Erie

Before me, on this day, Oct. 4, 2001, personally appeared **Kevin J. Richardson**, 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

Julie A. Demmin
 Notary Public
JULIE A. DEMMIN
 Notary Public, State of New York
 Qualified in Erie County
 My Commission Expires 4/5/03

Nicholas F. Urbanski
Nicholas F. Urbanski

04 October 2001
 Date

04 October 2001
 Date Executed
 Application for Letters Patent

State of New York
 County of Erie

Before me, on this day, Oct. 4, 2001, personally appeared **Nicholas F. Urbanski**, 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

Julie A. Demmin
 Notary Public
JULIE A. DEMMIN
 Notary Public, State of New York
 Qualified in Erie County
 My Commission Expires 4/5/03

Application No. 09/973 393

filed 10-9-01

Atty. Docket # 106290

RECORDED: 09/04/2003

PATENT 3-21-00
REEL: 013944 FRAME: 0757