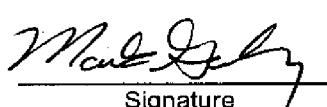


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| 1. Name of conveying party(ies): Santi Kulprathipanja Suhell F. Abdo James A. Johnson Daniel A. Kauff Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 2. Name and address of receiving party(ies) Name: 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? <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 _____ 5/28/03, 5/27/03, 5/28/03, 5/21/03 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) _____ 10/447,752 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: 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 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: 21-0600 | | | |
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ASSIGNMENT

☐ U.S. Provisional Application☒ U.S. Utility Patent Application

Attorney Docket No. 106309

WHEREAS, **SANTI KULPRATHIPANJA**, a citizen of THE UNITED STATES OF AMERICA, residing in the City of INVERNESS, in the County of COOK and State of ILLINOIS, **SUHEIL F. ABDO**, a citizen of THE UNITED STATES OF AMERICA, residing in the City of LINCOLNSHIRE, in the County of LAKE and State of ILLINOIS, **JAMES A. JOHNSON**, a citizen of THE UNITED STATES OF AMERICA, residing in the City of CLARENDON HILLS, in the County of DU PAGE and State of ILLINOIS, and **DANIEL A. KAUFF**, a citizen of THE UNITED STATES OF AMERICA, residing in the City of ARLINGTON HEIGHTS, in the County of COOK and State of ILLINOIS, and hereinafter referred to as "the inventors" have invented certain new and useful improvements in

REMOVAL OF IMPURITIES FROM LIQUID HYDROCARBON STREAMS

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. 101 447 752 filed 5-29-03

Atty. Docket # 106309

PATENT (03-21-00)
REEL: 013722 FRAME: 0240

Santi Kulprathipanja

Santi Kulprathipanja

5/28/03

Date

5/28/03

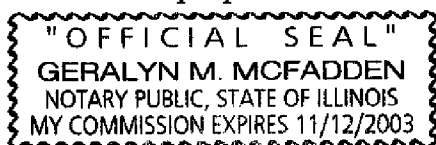
Date Executed

Application for Letters Patent

State of Illinois
County of Cook

Before me, on this day, 05-28-03, personally appeared **SANTI KULPRATHIPANJA**, 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

Suheil F. Abdo

Suheil F. Abdo

May 27, 2003

Date

May 27, 2003

Date Executed

Application for Letters Patent

State of Illinois
County of Cook

Before me, on this day, 05-27-03, personally appeared **SUHEIL F. ABDO**, 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

James A. Johnson

James A. Johnson

May 28, 2003

Date

May 28, 2003

Date Executed

Application for Letters Patent

State of Illinois
County of Cook

Before me, on this day, 05-28-03, personally appeared **JAMES A. JOHNSON**, 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.

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Notary Public

Application No. 101 447 752 filed 5-29-03

Atty. Docket # 106309

PATENT (103-21-00)
REEL: 013722 FRAME: 0241

Page 3 of 3

Daniel A. Kauff
Daniel A. Kauff5-21-03

Date

5-21-03

Date Executed

Application for Letters Patent:

State of Illinois
County of Cook

Before me, on this day, 05-21-03, personally appeared **DANIEL A. KAUFF**, 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.

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Geraldyn M. McFadden
Notary Public

Application No. _____ filed _____

Atty. Docket # 106309

PATENT (Rev. 03-21-00)
REEL: 013722 FRAME: 0242

UOP LLC
25 E. Algonquin Road
P.O. Box 5017
Des Plaines, IL 60017-5017
Phone: 847-391-2040
Fax: 847-391-2387

facsimile transmittal

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Phone: **703-308-9723** Phone: **847-391-2040**

Re: **SERIAL NUMBER: 10/447,752** Fax: **847-391-2387**

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