PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date | |
|-----------------|----------------|--|
| lan C Roman | 01/27/2003 | |
| John W Simmons | 01/27/2003 | |
| Okan Max Ekiner | 01/27/2003 | |

RECEIVING PARTY DATA

| IIName. | L'Air Liquide Societe Anonyme A Directoire et Conseil De Surveillance Pour L'Etude et L'Exploration des Procedes Georges Claude | | | | |
|-----------------|---|--|--|--|--|
| Street Address: | 75 quai d'Orsay | | | | |
| City: | Paris | | | | |
| State/Country: | FRANCE | | | | |
| Postal Code: | 75321 cedex 07 | | | | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 11626419 |

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: 47394-S6090-53B

NAME OF SUBMITTER: Jeffrey C. Lew

Total Attachments: 2

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PATENT

REEL: 018795 FRAME: 0906

JP \$40.00 11626

Docket No. S6090-47316 EU113401124US

ASSIGNMENT

We, the undersigned Ian C. Roman, John W. Simmons, and O. Max Ekiner, hereby declare that

we are the true and first inventors of an invention relating to a METHOD OF SEPARATING OLEFINS FROM MIXTURES WITH PARAFFINS which is disclosed in an application for Letters Patent in the United States of America, executed the 27th day of January, 2003; and, for valuable consideration, the receipt and adequacy of which is hereby acknowledged and in fulfillment of our pre-existing obligation of assignment, we hereby sell, assign and transfer unto L'Air Liquide Société Anonyme À Directoire et Conseil De Surveillance Pour L'Étude et L'Exploration Des Procedes Georges Claude a corporation organized and existing under the laws of the Republic of France, and having its principal place of business at 75 quai d'Orsay, 75321 Paris Cedex 07. France heremafter referred to as the assignee, the entire right, title, and interest in and to the aforesaid application for letters Patent, and any divisions, continuations, continuations-in-part, reissues, renewals, extensions and other derivative applications thereof, including any priority rights derived from the aforesaid application for Letters Patent by virtue of the International Convention for the Protection of Industrial Property for any and all member countries of the aforesaid International Convention, and the entire right, title and interest in and to any and all of our inventions, whether joint or sole, disclosed in the aforesaid application for Letters Patent, and in and to any and all applications for Letters Patent for any such inventions in any country whatsoever, and in and to any and all patents and all extensions, renewals and reissues thereof or legal equivalent thereof, for any such inventions in any country whatsoever, with the sole right to file such applications in its name or ours, including the sole right to file such applications under the aforesaid International Convention, together with the sole right to have said patents granted in its name or ours and to enforce said patents and to sue for and recover profits and damages for any and all infringements thereof, and hereby agree, whenever requested, to communicate to said assignee, its successors, assigns, and legal representatives, any facts known to us respecting said invention, to testify in any legal proceeding. to execute all applications, papers or instruments necessary or required by said assignee, its successors, assigns and legal representatives to carry into effect any of the provisions of this instrument, and generally to do everything possible to aid said assignee, its successors, assigns, and legal representatives to obtain and enforce proper patent protection for said inventions in any and all countries.

| Signed and sealed this | 27th | dayof | January , 200 | 3. | |
|------------------------|------|-------|---------------|--------------|--------|
| • | | | , . | Sn C. Ru | (L.S.) |
| | | | | Ian C. Roman | (2.5.) |
| STATE OF DELAWARE |) | | | | |
| |) S | S: | | | |
| COUNTY OF NEW CASTLE |) | | | | |

On this 27th day of January, 2003, before me personally appeared Ian C. Roman, personally known to me to be the individual described in, and who executed the foregoing instrument, and acknowledged that he/she executed the same of his/her own free will for the purposes therein set forth.

PATENT REEL: 018795 FRAME: 0907

RECORDED: 01/24/2007

| Signed and sealed this 27th day of January, 2003. | |
|--|-------------------|
| STATE OF DELAWARE) SS: COUNTY OF NEW CASTLE) | (L.S.) |
| On this 27th day of January, 2003, before me personally appeared John W. Simmons, person known to me to be the individual described in, and who executed the foregoing instrument, and acknowled he/she executed the same of his/her own free will for the purposes therein set forth. | nally ged that |
| Signed and sealed this 27th day of January, 2003. |) (L.S.) |
| STATE OF DELAWARE) O. Max Ekiner | |
| OUNTY OF NEW CASTLE) | |

On this 27th day of January, 2003, before me personally appeared O. Max Ekiner, personally known to me to be the individual described in, and who executed the foregoing instrument, and acknowledged that he/she executed the same of his/her own free will for the purposes therein set forth.

PATENT

REEL: 018795 FRAME: 0908