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FORM PTO-1596
(Rev. 6/93)



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101237920

Attorney's Docket No. 016499-619

To the Honorable Commissioner of Patents and Trademarks, Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Mahendra L. JOSHI, Ovidiu MARIN, Olivier CHARON and Jacques DUGUE

Additional name(s) of conveying party(ies) attached? Yes

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name

Other: _____

Execution Date: November 15, November 16, November 16, November 15, 1999 respectively

Name and address of receiving party(ies):

Name: L'AIR LIQUIDE

Address: Societe Anonyme Pour L'Etude Et L'Exploitation Des Procedes Georges Claude, 75 quai d'Orsay, 75321 Paris Cedex 07, FRANCE

Additional name(s) & address(es) attached? Yes No
American Air Liquide Inc., 2121 N. California Blvd., Ste. 350, Walnut Creek, CA 94596-8038

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: September 15, 1999

A. Patent Application No.(s)
09/397,021

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: E. Joseph Gess

Address: Burns, Doane, Swecker & Mathis, L.L.P.

Post Office Box 1404

Alexandria, Virginia 22313-1404

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, if necessary

8. Deposit account number:

02-4800

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Jed W. Caven, Registration Number 40,551
Name of Person Signing

Signature

December 17, 1999
Date

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

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Box Assignments
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01/04/2000 DMGUYEN 00000145 09397021

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40.00 OP

(BDSM 8)
(5/95)

PATENT
REEL: 010463 FRAME: 0070

Assignment of Invention

WHEREAS, Mahendra L. JOSHI of 1922 Holly Avenue, Darien, IL 60561, Ovidiu MARIN of 2040 Carriage Hill Road, Lisle IL 60532, Olivier CHARON of 401 East Ontario, Chicago IL 60611, and Jacques DUGUE, 30 rue de Bougainville, Montigny le Bretonneux, France, respectively, have invented certain new and useful improvements in: SYSTEM AND METHOD FOR OXIDANT INJECTION IN ROTARY ROTARY KILNS, for which an application for Application Serial No. 09/397,021, was filed September 15, 1999, and

WHEREAS, AMERICAN AIR LIQUIDE INC. (hereinafter referred to as "ASSIGNEE") having a place of business at: 2121 N. California Blvd., Ste. 350, Walnut Creek, CA 94596-8038, U.S.A. desires to acquire from Mahendra Joshi, Ovidiu Marin and Olivier Charon the entire right, title and interest they have in and to said invention and in and to any Letters Patent that may be granted thereof in the United States and its territorial possessions;

NOW, THEREFORE, for valuable consideration, the receipt whereof is hereby acknowledged, WE, Mahendra Joshi, Ovidiu Marin and Olivier Charon by these presents do sell, assign and transfer unto said ASSIGNEE, all of our rights to the said invention in the United States and its territorial possessions and our entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

We hereby authorize and request the Patent Office Officials in the United States and its territorial possessions to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of our entire right, title and interest in and to the same, for the use and behalf of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by us had this Assignment and sale not been made.

Further, we agree that we will communicate to said ASSIGNEE or its (his) representatives any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions.

The undersigned hereby grant(s) authorized representatives of the above identified ASSIGNEE the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

EXECUTED AT: U.S.A.

Date: 11/15/99 Mahendra L. JOSHI M L Joshi (Inventor)

Date: 11/16/99 Ovidiu MARIN [Signature] (Inventor)

Date: 11/16/99 Olivier CHARON [Signature] (Inventor)

Assignment of Invention

WHEREAS, Mahendra L. JOSHI of 1922 Holly Avenue, Darien, IL 60561, Ovidiu MARIN of 2040 Carriage Hill Road, Lisle IL 60532, Olivier CHARON of 401 East Ontario, Chicago IL 60611, and Jacques DUGUE, 30 rue de Bougainvillea, Montigny le Bretonneux, France, respectively, have invented certain new and useful improvements in: SYSTEM AND METHOD FOR OXIDANT INJECTION IN ROTARY KILNS, for which an application for Application Serial No. 09/397,021, was filed September 15, 1999, and

WHEREAS, L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET, L'EXPLOITATION DES PROCEDES GEORGES CLAUDE (hereinafter referred to as "ASSIGNEE"), having a place of business at: 75 quai d'Orsay, 75321 PARIS Cedex 07, FRANCE, desires to acquire from Mahendra Joshi, Ovidiu Marin and Olivier Charon the entire right, title and interest they have in and to said invention and in and to any Letters Patent that may be granted thereof in any and all countries foreign to the United States of America;

NOW, THEREFORE, for valuable consideration, the receipt whereof is hereby acknowledged, WE, Mahendra Joshi, Ovidiu Marin and Olivier Charon, by these presents do sell, assign and transfer unto said ASSIGNEE, all of our rights to said invention in all foreign countries and our entire right, title and interest in and to any and all Letters Patent which may be granted in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

WE hereby authorize and request the Patent Office in any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of our entire right, title and interest in and to the same, for the use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by us had this Assignment and sale not been made.

Further, WE agree that WE will communicate to said ASSIGNEE or its representatives any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in any and all foreign countries.

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WHEREAS, L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET, L'EXPLOITATION DES PROCEDES GEORGES CLAUDE (hereinafter referred to as "ASSIGNEE") having a place of business at: 75 quai d'Orsay 75321 PARIS Cedex 07, FRANCE, desires to acquire from Jacques Dugue, the entire right, title and interest he has in and to said invention and in and to any Letters Patent that may be granted thereof in the United States and its territorial possessions and in any and all countries foreign to the United States;

NOW, THEREFORE, for valuable consideration, the receipt whereof is hereby acknowledged, I, Jacques Dugue, by these presents do sell, assign, and transfer unto said ASSIGNEE, all my right to the said invention in the United States and its territorial possessions and in all countries foreign to the United States and my entire right, title, and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all countries foreign to the United States, and in and to any and all divisions, reissues, continuations, substitutions, and renewals thereof.

I hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all countries foreign to the United States to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title, and interest in and to the same, for the use and behalf of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment and sale not been made.

Further, I agree that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal, and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and generally do everything possible to aid said ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all countries foreign to the United States.

The undersigned hereby grants authorized representatives of the above identified ASSIGNEE the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

EXECUTED AT: Lesloges

Date: Nov. 15, 1999

Jacques Dugue
Jacques DUGUE, (Inventor)