

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Natacha HAIK-BERAUD	03/05/2007
Serge MOREAU	02/23/2007
Francois JANTET	03/04/2007
Audrey MOULIN	03/05/2007
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	L'Air Liquide, Societe Anonyme a Directoire et Conseil de Surveillance pour l'Etude et l'Exploitation des Procedes Georges Claude
<b>Street Address:</b>	75, Quai d'Orsay
<b>City:</b>	Paris CEDEX 07
<b>State/Country:</b>	FRANCE
<b>Postal Code:</b>	75321
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	10559138
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(713)624-8950
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	(713) 624-8787
<b>Email:</b>	diana.guzman@airliquide.com
<b>Correspondent Name:</b>	Elwood L. Haynes
<b>Address Line 1:</b>	2700 Post Oak Blvd.
<b>Address Line 2:</b>	Suite 1800
<b>Address Line 4:</b>	Houston, TEXAS 77056
<b>ATTORNEY DOCKET NUMBER:</b>	SERIE 6177
<b>NAME OF SUBMITTER:</b>	Elwood L. Haynes #55,254

CH \$40.00 10559138

**Total Attachments: 5**

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## PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

## 1. Name of conveying party(ies):

<b>Natacha HAIK-BERAUD</b>	<b>March 5, 2007</b>
<b>Serge MOREAU</b>	<b>February 23, 2007</b>
<b>François JANTET</b>	<b>March 4, 2007</b>
<b>Audrey MOULIN</b>	<b>March 5, 2007</b>

Additional name(s) of conveying party(ies) attached? Yes  No

## 2. Name and address of receiving party(ies):

Name: **L'Air Liquide, Société Anonyme à  
Directoire et Conseil de Surveillance pour l'Étude  
et l'Exploitation des Procédés Georges Claude**  
Internal Address: **75 Quai d'Orsay**  
Street Address: **75 Quai d'Orsay**  
City: **75321 Paris** State: **Cedex 07**  
Country: **France**

Additional name(s) & address(es) attached? Yes  No

## 3. Nature of Conveyance:

<input checked="" type="checkbox"/> Assignment	Merger
<input type="checkbox"/> Security Agreement	Change of Name
<input type="checkbox"/> Other	

## 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):

**10/559,138, Filed November 30, 2005**  
**Filed Internationally June 10, 2004**

## B. Patent No.(s):

Additional numbers attached? Yes  No

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

Name: **Elwood L. Haynes**  
Internal Address: **2700 Post Oak Blvd., Ste. 1800**  
Street Address: **2700 Post Oak Blvd., Ste. 1800**  
City: **Houston** State: **TX** Zip: **77056**  
Phone: **(713) 624-8954** Fax: **(713) 624-8950**  
E-mail Address: **elwood.haynes@airliquide.com**

6. Total number of applications and patents involved: 7. Total fee (37 C.F.R. § 3.41) **\$40.00**

Enclosed  
 Authorized to be charged to deposit account

## 8. Payment Information

a. Deposit Account Number: **01-1375**  
b. Authorized User Name: **Elwood L. Haynes**  
(Attach duplicate copy of this page if paying by deposit account)

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.

Elwood L. Haynes, Reg. No. 55,254  
Name of Person Signing

  
Signature

March 9, 2007  
Date

Total number of pages including cover sheet, attachments and documents: **5**

Ref. No.: Serie 6177

**Assignment of Invention**

WHEREAS, I, **Natacha Haik-Beraud, 44 avenue Charles V, 94130 Nogent sur Marne France ; Serge Moreau 22 rue du Général Exelmans, 78140 Velizy Villacoublay, France ; François Jantet, 36 rue Catherine de Lize, 80000 Amiens, France ; Audrey Moulin, 32 avenue du Petit Parc, 94300 Vincennes, France** have invented certain new and useful improvements in "*Purification of a mixture of H2/CO by catalysis of the NOx* » which: (a) an application for Letters Patent was filed on Nov. 30 2005 having Application No. 10/559,138 ; or (b) for which an application for a United States patent was executed on \_\_\_\_\_, and

WHEREAS, **L'Air Liquide, Société Anonyme à Directoire et Conseil de Surveillance pour l'Etude et l'Exploitation des Procédés 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 the entire right, title and interest 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 by these presents do sell, assign and transfer unto said ASSIGNEE, effective as of the first priority date, the full and exclusive right to the said invention in the United States and its territorial possessions, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefore 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 sole 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 me 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 the United States and its territorial possessions.

The undersigned hereby grant(s) authorized representatives of the above identified ASSIGNEE(S) 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.

Date: 5/3/17

  
Name of Inventor, **Natacha Haik-Beraud**

Date: \_\_\_\_\_

\_\_\_\_\_  
Name of Inventor, **Serge Moreau**

Date: \_\_\_\_\_

\_\_\_\_\_  
Name of Inventor, **François Jantet**

Date: \_\_\_\_\_

\_\_\_\_\_  
Name of Inventor, **Audrey Moulin**

Ref. No.: Serie 6177

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Date: \_\_\_\_\_

\_\_\_\_\_  
Name of Inventor, Natacha Haik-Beraud

Date: 23/2/7

  
\_\_\_\_\_  
Name of Inventor, Serge Moreau

Date: \_\_\_\_\_

\_\_\_\_\_  
Name of Inventor, François Jantet

Date: \_\_\_\_\_

\_\_\_\_\_  
Name of Inventor, Audrey Moulin

**PATENT**

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Ref. No.: Serie 6177  
*Assignment of Invention*

WHEREAS, I, **Natacha Haik-Beraud**, 44 avenue Charles V, 94130 Nogent sur Marne France ; **Serge Moreau** 22 rue du Général Exelmans, 78140 Velizy Villacoublay, France ; **François Jantet**, 36 rue Catherine de Lize, 80000 Amiens, France ; **Audrey Moulin**, 32 avenue du Petit Parc, 94300 Vincennes, France have invented certain new and useful improvements in "Purification of a mixture of H2/CO by catalysis of the NOx » which: (a) an application for Letters Patent was filed on Nov. 30, 2005 having Application No. 10/559,138 ; or (b) for which an application for a United States patent was executed on \_\_\_\_\_, and

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Date: \_\_\_\_\_

\_\_\_\_\_  
Name of Inventor, Natacha Haik-Beraud

Date: \_\_\_\_\_

\_\_\_\_\_  
Name of Inventor, Serge Moreau

Date: 4<sup>th</sup> March 07

\_\_\_\_\_  
Name of Inventor, François Jantet

Date: \_\_\_\_\_

\_\_\_\_\_  
Name of Inventor, Audrey Moulin

**PATENT**

**REEL: 018988 FRAME: 0307**

Ref. No.: Serie 6177

**Assignment of Invention**

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Name of Inventor, Natacha Haik-Beraud

Date: \_\_\_\_\_

\_\_\_\_\_  
Name of Inventor, Serge Moreau

Date: \_\_\_\_\_

\_\_\_\_\_  
Name of Inventor, François Jantet

Date: 05/03/07

\_\_\_\_\_  
Name of Inventor, Audrey Moulin

**PATENT**