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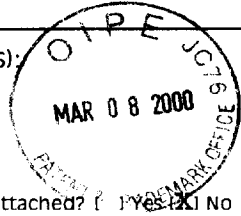


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To the Hon. Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Dominique CHAZOT and
Alain COTTEREAU



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

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

Name:

L'AIR LIQUIDE, SOCIETE ANONYME
POUR L'ETUDE ET L'EXPLOITATION
DES PROCEDES GEORGES CLAUDE

Street Address:

75, Quai d'Orsay, 75321
Paris Cedex 07, France

3. Nature of conveyance:

- Assignment Merger
- Change of Name Other
- Security Agreement

Execution Date: September 23, 1999

4. Application number(s) or patent (numbers):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s).

09/384,595

B. Patent No(s).

Additional numbers attached? Yes No

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

YOUNG & THOMPSON
Second Floor
745 South 23rd Street
Arlington, VA 22202

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41).....\$ 40.00^E

- Enclosed
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(Attach duplicate copy of this page if paying by deposit account.)

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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.

Mary Shelton
Name of Person Signing

Mary Shelton
Signature

March 8, 2000
Date

Total number of pages including cover sheet: 121

A S S I G N M E N T

WHEREAS, we, Dominique CHAZOT and Alain COTTEREAU, hereafter referred to as "applicants", have invented certain new and useful improvements in **JOULE-THOMSON COOLER**,

(a) for which an application for a United States patent was filed on 27/08/1999, Application No. 09/384 595,

(b) for which an application for a United States patent was executed on _____, and

WHEREAS, **L'AIR LIQUIDE, SOCIETE ANONYME POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE**, of 75, Quai d'Orsay, 75321 Paris Cedex 07, France, hereinafter referred to as "assignee", is desirous of acquiring the entire right, title and interest in and to the same;

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00), the receipt whereof is acknowledged, and other good and valuable consideration, applicants, by these presents, do hereby sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire right, title and interest in and to any and all patents which may be granted therefor in the United States, for its sole use and behoof, and for the use and behoof of its legal representatives, to the full end of the term for which said patents may be granted, as fully and entirely as the same would have been held by applicants had this assignment and sale not been made.

Applicants hereby authorize and request the Commissioner of Patents and Trademarks to issue said United States patents to said assignee.

Date: 29 SEP 1999



Dominique CHAZOT

Date: _____

COTTEREAU

Alain COTTEREAU