FORM PTO-1595

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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

missioner of Patents & Trademarks: Please record the attached original documents or copy To the H**o**n thereof. Name of conveying party(ies): 2. Name and address of receiving party(ies): Christian MONEREAU, Name: Nathalie DERIVE and L'AIR LIQUIDE, SOCIETE ANONYME Pierre PETIT POUR L'ETUDE ET L'EXPLOITATION DES PROCEDES GEORGES CLAUDE Add tional name(s) of conveying party(ies) attached? [ ] Yes [X] No Street Address: 3. Nature of conveyance: 75, Quai d'Orsay 75321 Paris Cedex 07, France [X] Assignment [ ] Merger I I Security Agreement [ ] Change of [ ] Other Execution Date: October 16, 1998 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). B. Patent No(s). 09/085,003 Additional numbers attached? [ ] Yes (X) No 5. Name and address of party to whom corre-6. Total number of applications and patents spondence concerning document should involved: be mailed: 7 YOUNG & THOMPSON 1 Enclosed Second Floor IXI Authorized to be charged to de-745 South 23rd Street posit Arlington, VA 22202 account 8. Deposit Account No. 25-0120 - N. P. S. R. S. E. R. 188 - 0e 3:5500 30 (Attach duplicate copy of this page of 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. Mary Shelton Name of Person Signing

Total number of pages including cover sheet: [2]

PATENT REEL: 9676 FRAME: 0221

## ASSIGNMENI

WHEREAS, we, Christian MONERFAU, Nathalie DERIVE and Pierre PETIT, hereafter referred to as "applicants", have invented certain new and useful improvements in

## APPARATUS AND PROCESS FOR THE SEPARATION OF GAS MIXTURES BY PRESSURE SWING ADSORPTION,

for which an application for a United States patent was filed on May 28, 1998, Application No. 09/085,003, and

WHEREAS, L'Air Liquide, Société Anonyme Pour l'Étude et l'Exploitation des Procédés 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:	October 16, 1998	ATTU
Date:	October 16, 1998	Christian MONEREAU
Date.	OCCODET TO, 1996	Nathalie DERIVE
Date:	October 16, 1998	Pierre PETIT

PATENT
RECORDED: 01/05/1999 REEL: 9676 FRAME: 0222