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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

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To the Hon. Commissioner of Patents & Trademarks: Fithereof.	Please record the attached original documents or copy				
1. Name of conveying party(ies): Serge MOREAU and Bernd POLSTER Additional name(s) of conveying party(ies) attached? II Yes (X) 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				
3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other	Street Address: 75, Quai d'Orsay 75321 Paris Cedex 07, France				
Execution Dates: October 16, 2000 and October 17, 2000	09/695087				
 Application number(s) or patent (numbers): If this document is being filed together with applications are: October 16, 2000 and A. Patent Application No(s). 	a new application, the execution dates of the				
5. Name and address of party to whom correspondence concerning document should be mailed: YOUNG & THOMPSON	Additional numbers attached? [] Yes [X] No 6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41)\$ 40 [X] Enclosed				
Second Floor 745 South 23rd Street Arlington, VA 22202	Il Authorized to be charged to deposit account 8. Deposit Account No. 25 - 0120 (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 sany attached copy is a true copy of the origin. Rhonda Desper Name of Person Signing	foregoing information is true and correct and hal document. October 25, 2000 Bignature Date				

Total number of pages including cover sheet: [2]

PATENT REEL: 011249 FRAME: 0227

ASSIGNMENT

WHEREAS, I/we, Serge MOREAU, Bernd POLSTER hereafter referred to as "applicant(s)", have invented certain new and useful improvements

PROCESS FOR THE PRODUCTION OF HYDROGEN USING A CARBONATED ADSORBENT WITH SELECTED DUBININ PARAMETERS

a) for	which an applicati	ion for a	united Sta	ates patent	was filed on .			 '
Applica	etion No.	·						
(b) for	which an application	n for a U	Inited States	s patent was	s executed on	_10/16/	<u>/00 &10/17</u>	<u>/00</u>
and				•				
	WHEREAS,	L'AIR	LIQUIDE,	SOCIETE	ANONYME	POUR	L'ETUDE	ET

L'EXPLOITATION DES PROCEDES GEORGES CLAUDE - 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, applicant(s), by these presents, do(es) 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 applicant(s) had this assignment and sale not been made.

Applicant(s) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue said United States patents to said assignee.

Date: 16/10/00

Serge MOREAU

Date: 17/10/2000

RECORDED: 10/25/2000

Bernd POLSTER

PATENT REEL: 011249 FRAME: 0228