U.S. DEPARTMENT OF COMMERCE 07-05-2001 1 EET Patent and Trademark Office Docket No. 491712000100 101767862 To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Eugene S. Smotkin Name: NuVant Systems, LLC Internal Address: ■ Individual(s) ☐ Association Street Address: 1188 Bishop Street, Suite 1610 ☐ General Partnership ☐ Limited Partnership City, State, ZIP: Honolulu, Hawaii 96813 ☐ Corporation-State ☐ Other Additional name(s) of conveying party(ies) attached? □Yes ■No Additional name(s) & address(es) attached? □ Yes 🗷 No 3. Nature of conveyance: Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other: Execution Date: June 26, 2001 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: June 26, 2001 A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? 

Yes 

No 5. Name and address of party to whom correspondence concerning Total number of applications and patents involved: 1 document should be mailed: 7. Total fee (37 C.F.R. § 3.41): \$40.00 Raj S. Davé, Ph.D., J.D. Enclosed Morrison & Foerster LLP Authorized to be charged to deposit account, referencing 2000 Pennsylvania Avenue, N.W. Attorney Docket 491712000100 Washington, D.C. 20006-1888 8. Deposit account number: 03-1952 The Commissioner is hereby authorized to charge any fees under 37 C.F.R. § 1.21 that may be required by this paper, or to credit any overpayment to Deposit Account No. 03-1952. 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 Name: Raj S. Davé, Ph.D., J.D. June 26, 2001 Registration No: 42,465 Date Signature Total number of pages comprising cover sheet, attachments and document: 3 06/29/2001 RHARIS1 00000027 031952 09891200

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

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Attorncy Docket No. 491712000100

## ASSIGNMENT

THIS ASSIGNMENT, by Eugene S. Smotkin (hereinafter referred to as the assignor), residing at 720 South Dearborn Street - #606, Chicago, IL 60605, witnesseth:

WHEREAS, said assignor has invented certain new and useful improvements in HYDROGEN PERMEABLE MEMBRANE FOR USE IN FUEL CELLS, AND PARTIAL REFORMATE FUEL CELL SYSTEM HAVING REFORMING CATALYSTS IN THE ANODE FUEL CELL COMPARTMENT, set forth in an application for Letters Patent of the United States, bearing Serial No.

and filed on and

WHEREAS, NuVant Systems, LLC, a corporation duly organized under and pursuant to the laws of California and having its principal place of business at 1188 Bishop Street, Suite 1610, Honolulu, Hawaii 96813 (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignor has sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to he held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignor, had this sale and assignment not been made.

AND for the same consideration, said assignor hereby covenants and agrees to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignor is the sole and lawful owner of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignor hereby covenants and agrees to and with said assignee, its successors, legal representatives and assigns, that said assignor will, whenever counsel of said assignee, or the counsel of its successor, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

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AND said assignor hereby requests the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

, a Notary Public, this

Subscribed and sworn to before me at 26th day of June, 200

Notary Public

(SEAL)

'OFFICIAL SEAL" TONACIA GRANADO Notary Public, State of Illinois My Commission Expires Feb. 17, 2004

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**PATENT** REEL: 011936 FRAME: 0805