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To the Director of the United States Patent and Trademark Office. Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): Name and address of receiving party(ies): Hiroshi YAGI, Takanori MAEDA, Yoshinori OOTA and Yasuhiro Name: Dai Nippon Insatsu Kabushiki Kaisha **UCHIDA** Address: 1-1, Ichigava Kagacho 1-chome, Shinjuku-ku, Tokyo, Japan Additional name(s) of conveying party(ies) attached?

Yes No 09-15-2004 3. Nature of Conveyance: Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name 102836107 ☐ Other Additional name(s) and address(es) attached?

Yes No Execution Date: April 1, 2004 4. Application number(s) or patent number(s): ☐ This document is being filed together with a new application B. Patent No.(s) A. Patent Application No.(s) 10/491,888 Additional numbers attached?

Yes No 5. Name and address of party to whom correspondence 6. Total applications and patents involved: 1 concerning document should be mailed: 7. Total fee (37 CFR 3.41): \$40.00 Customer Number Enclosed ☐ Authorized to be charged to deposit account 8. Deposit account number: 15-0030 Fax. (703) 413-2220 (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. Name of Person Signing Roland E. Martin Registration Number: Registration No. 48,082 Total number of pages including this cover sheet: 3 09/10/2004 HLE333 00000017 10491888 Do not detach this portion 01 FC:8021 40.00 QP Mail documents to be recorded with required cover sheet information to:

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> PATENT REEL: 015775 FRAME: 0280

Assignment Of Application

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	WHEREAS, I (WE) Hiroshi YAGI, Takanori MAEDA, Yoshinori
	OOTA and Yasuhiro UCHIDA of:
SERT NAMES ID RESIDENCE ODRESSES OF E INVENTORS:	c/o Dai Nippon Insatsu Kabushiki Kaisha, 1-1, Ichigaya
	Kagacho 1-chome, Shinjuku-ku, Tokyo, Japan
ERT TITLE	, respectively, THIN FILM SUPPORT
INVENTION:	have invented certain new and useful improvements in: SUBSTRATE FOR USE IN HYDROGEN PRODUCTION FILTER AND
SERT DATE IN-	PRODUCTION METHOD OF HYDROGEN PRODUCTION FILTER April 1, 2004 for which an application for Letters Patent was executed on
CLARATION:	(Application No. 10/491,888 , filed April 15, 2004), and
ERT NAME D ADDRESS OF MPANY OR	WHEREAS, Dai Nippon Insatsu Kabushiki Kaisha
MPANT OR HER ASSIGNEE:	(hereinafter referred to as "ASSIGNEE") having a place of business at: 1-1, Ichigaya
	Kagacho 1-chome, Shinjuku-ku, Tokyo, Japan
	is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;
	NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continua-

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tions, substitutions and renewals thereof.

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I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) 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 (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (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 Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, 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	April 1, 20	04	Hirochi Zagi
Date			(Signature of Inventor) Hiroshi YAGI
Date:_	April 1, 20	04	Jakanozi Maeda (Signature of Inventor) Takanori MAEDA
	April 1, 200		(Signature of Inventor) Takanori MAEDA (Signature of Inventor) Yoshinori OOTA
	April 1, 200		Yasuhiro Uchida
			(Signature of Inventor) Yasuhiro UCHIDA (Signature of Inventor)
Date:_			(Signature of Inventor)
Date:_			(Signature of Inventor)
Date:_			(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

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