502623756 01/07/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
TAKEHIKO OKABE	12/27/2013
KATSUAKI TO	12/27/2013

RECEIVING PARTY DATA

Name:	SHOWA DENKO K.K.
Street Address:	13-9, SHIBA DAIMON 1-CHOME, MINATO-KU,
City:	TOKYO
State/Country:	JAPAN
Postal Code:	105-8518

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14148931

CORRESPONDENCE DATA

Fax Number: (202)797-8188 Phone: 202 797 4181

Email: IPUSA@IPUSAPAT.COM, ips@itohpat.co.jp Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: IPUSA, P.L.L.C

Address Line 1: 1054 31ST STREET, N.W.

Address Line 2: SUITE 400

Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20007

ATTORNEY DOCKET NUMBER:	13SHD-010
NAME OF SUBMITTER:	HERMAN PARIS
Signature:	/Herman Paris/
Date:	01/07/2014

Total Attachments: 3

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> 502623756 PATENT REEL: 031906 FRAME: 0189

RECORDATION FORM COVER SHEET		
PATENTS ONLY		
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.		
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)	
Takehiko OKABE, Katsuaki TO	Name: SHOWA DENKO K.K.	
	Internal Address:	
Additional name(s) of conveying party(ies) attached? Yes No. 3. Nature of conveyance/Execution Date(s): Execution Date(s) December 27, 2013 Assignment Merger Security Agreement Change of Name Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other 4. Application or patent number(s): This A. Patent Application No.(s)		
Additional numbers attached? Yes No 5. Name and address to whom correspondence concerning document should be mailed: 6. Total number of applications and patents involved: 1		
Name: IPUSA, PLLC		
Internal Address:	7. Total fee (37 CFR 1.21(h) & 3.41) \$	
Street Address: 1054 31st Street, N.W., Suite 400	Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)	
City: Washington	8. Payment Information	
State: DCZip: 20007		
Phone Number: 202-797-4181		
Docket Number: 13SHD-010	Deposit Account Number 50-4424	
Email Address: ipusa@ipusapat.com	Authorized User Name Herman W. Paris	
9. Signature: /Herman W. Par	is/ January 7, 2014	
Signature	Date	
Herman W. Paris	Total number of pages including cover sheet attachments and documents:	
Name of Person Signing	onest, attaonnents, and decuments.	
Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450		

PATENT REEL: 031906 FRAME: 0190

ASSIGNMENT

THIS ASSIGNMENT, by (1) Takehiko OKABE and (2) Katsuaki TO (hereinafter referred to as "Assignors"), residing at (1) Ichihara-shi, Chiba, Japan, and (2) Ichihara-shi, Chiba, Japan, respectively;

WHEREAS, Assignors have	e invented certain new and t	useful improvements in
MAGNETIC RECORDING MEDI	UM FABRICATION MET	HOD AND APPARATUS
(Application No	, filed)
set forth in a patent application for I	•	States, either previously

WHEREAS, SHOWA DENKO K.K. (hereinafter referred to as "Assignee"), having offices at 13-9, Shiba Daimon 1-chome, Minato-ku, Tokyo 105-8518 Japan, 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 of the United States 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, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuation-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and Assignment not been made;

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles, and or interests that have arisen to Assignee under the law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will 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 any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives, and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns shall advise; that any proceeding in connection with said inventions, or said patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable;

AND Assignors hereby request that the Director of the United States Patent and Trademark Office issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the said Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns;

AND Assignors hereby grant the following individuals the power to insert on this Assignment any further identification 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: All practitioners associated with the Customer Number 77464.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

December 27, 2013	Take hillo Ukube
Date	Takehiko OKABE
December 27, 2013	Katsuaki For
Date	Katsuaki TO