506306549 10/16/2020

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HISASHI HORI	09/09/2020

RECEIVING PARTY DATA

Name:	NIPPON LIGHT METAL COMPANY, LTD.	
Street Address:	1-1-13 SHIMBASHI, MINATO-KU	
City:	TOKYO	
State/Country:	JAPAN	
Postal Code:	1050004	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17048076

CORRESPONDENCE DATA

Fax Number: (612)332-9081

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

612-332-5300 Phone:

Email: crogers@merchantgould.com **Correspondent Name:** MERCHANT & GOULD P.C.

Address Line 1: P.O. BOX 2903

Address Line 4: MINNEAPOLIS, MINNESOTA 55402-0903

ATTORNEY DOCKET NUMBER:	13425.0247FPWO
NAME OF SUBMITTER:	BRIAN H. BATZLI
SIGNATURE:	/Brian H. Batzli/
DATE SIGNED:	10/16/2020

Total Attachments: 2

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> **PATENT** REEL: 054101 FRAME: 0847 506306549

INSTRUCTIONS U.S. ASSIGNMENT TO CORPORATION WHEREAS, Inventor(s) Name, Hisashi HORI having an address at c/o Nikkei Research & Address, Citizenship Development Center, NIPPON LIGHT METAL COMPANY, LTD., 1-34-1, Kambara, Shimizu-ku, Shizuoka-shi, Shizuoka 4213203, Japan and a citizen of Japan; Check the appropriate box and (herein called "THE UNDERSIGNED") have made an invention and have fill in the requested information: executed an application for Letters Patent of the United States entitled select the first check box JOINING METHOD AND METHOD FOR MANUFACTURING A if the application is a ROLLED COMPOSITE MATERIAL national stage of a PCT application and provide and which: is the national stage application of International Application No. the international application number and PCT/JP2019/001232, filed on January 17, 2019 filing date before sending will be filed without this executed PATENT ASSIGNMENT. THE the assignment for UNDERSIGNED hereby authorizes, and requests, ASSIGNEE'S legal representatives, of Merchant & Gould PC, who are associated with execution; customer number 23552, to insert here in parenthesis (U.S. Serial No. select the second check _____, filed ______) this application's box if the application will U.S. Serial Number and filing date, when known; be filed without the was filed on and was given U.S. Serial No. executed assignment -; or once the assignment is is filed concurrently herewith: executed and the serial number and filing date of the U.S. application are known, provide this information before recordation; select the third check box if the application was previously filed and provide the serial number and filing date before sending the assignment for execution; or select the fourth check box if the application will he filed with the application, AND WHEREAS NIPPON LIGHT METAL COMPANY, LTD. (herein Name of Corporation called "ASSIGNEE"), a corporation organized under the laws of Japan, and having an office and place of business at 1-1-13 Shimbashi, Minato-ku, Tokyo 1050004, Japan, wishes to acquire the entire right, title and interest in and to said invention and State or Country of patent application and any Letters Patent to be obtained therefor; Incorporation and Address NOW, THEREFORE, for and in consideration of the sum of One Dollar and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, THE UNDERSIGNED hereby sell, assign and transfer to the ASSIGNEE, its successors and assigns, the entire right, title and interest for the United States in and to the invention disclosed in the aforesaid application, and in

and to the said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents to issue any and all United States Letters Patent for the aforesaid invention to the ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to THE UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE its successors and assigns, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by THE UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by THE UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Each inventor must sign & date Note: No legalization or other witness required

Name: 1. Signature: Date:

Hisashi HORI Idiaashi Idovi 09 September 2020