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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4772549

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date	
HIROKI DOMON	12/21/2017	
AKIYOSHI MANABE	12/21/2017	
MASAHIRO OHARA	12/21/2017	

RECEIVING PARTY DATA

Name:	DE NORA PERMELEC LTD		
Street Address:	2023-15, ENDO		
City:	FUJISAWA-SHI, KANAGAWA		
State/Country:	JAPAN		
Postal Code:	252-0816		

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	15743887	

CORRESPONDENCE DATA

Fax Number: (612)455-3801

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.

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HAMRE, SCHUMANN, MUELLER & LARSON, P.C. Correspondent Name:

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ATTORNEY DOCKET NUMBER:	DRNEY DOCKET NUMBER: 20344.0099USWO		
NAME OF SUBMITTER:	MASAKO YOSHIDA		
SIGNATURE:	/Masako Yoshida/		
DATE SIGNED:	01/11/2018		

Total Attachments: 2

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> **PATENT** REEL: 044601 FRAME: 0841 504725825

Docket No.

ASSIGNMENT OF PATENT APPLICATION

WHEREAS,

- 1. DOMON Hiroki residing at c/o DE NORA PERMELEC LTD and a citizen of Japan
- MANABE Akiyoshi residing at c/o DE NORA PERMELEC LTD and a citizen of Japan
- OHARA Masahiro residing at c/o DE NORA PERMELEC LTD and a citizen of Japan

(hereinafter c	alled "THE U	NDERSIGNEI	D") have mad	le an inventic	on and have e	executed an
application for	or Letters Pate	nt of the United	d States for th	nis invention	which was fi	led on,
entitled ELE	CTROLYSIS.	APPARATUS	AND ELEC	TROLYSIS N	ΛΈΤΗΟD, ai	nd which has
been given a	oplication seria	al number		\(\frac{1}{2}\)		

and

WHEREAS DE NORA PERMELEC LTD (hereinafter "ASSIGNEE") a corporation organized under the laws of Japan and having an office and place of business at 2023-15, Endo, Fujisawa-shi, Kanagawa 252-0816, Japan wish(es) to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, THE UNDERSIGNED hereby sell, assign, and transfer to the ASSIGNEES, its successors, legal representative and assigns, the entire right, title and interest for the United States in and to the invention disclosed in said application, and in and to said application, as well as to 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 of the United States to issue all Letters Patent for said invention to the ASSIGNEES of the entire right, title and interest in and to the same, in accordance with the terms of this instrument.

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 ASSIGNEES) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEES, 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 ASSIGNEES, it successors or assigns, the entire right, title and interest in and to the said invention, patent applications, Letters Patent, rights, titles, benefits, privileges, and advantages hereby sold, assigned and conveyed, or intended so to be.

PATENT REEL: 044601 FRAME: 0842 THE UNDERSIGNED represent and agree with said ASSIGNEES, 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.

North Roman

December 21, 2017

Date

2. Signature WANABE Akiyoshi

December 21, 2017

Date

3. Signature OHARA Masahiro

December 21, 2017

Date

PATENT REEL: 044601 FRAME: 0843

RECORDED: 01/11/2018