

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM459080

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
RENNOVIA INC.		12/07/2017	Corporation: DELAWARE
RECEIVING PARTY DATA			
Name:	PACIFIC WESTERN BANK		
Street Address:	406 BLACKWELL STREET		
Internal Address:	SUITE 240		
City:	DURHAM		
State/Country:	NORTH CAROLINA		
Postal Code:	27701		
Entity Type:	STATE CHARTERED BANK: CALIFORNIA		
PROPERTY NUMBERS Total: 3			
Property Type	Number	Word Mark	
Registration Number:	4597451	RENNLON	
Serial Number:	86135107	RENNOVIA	
Registration Number:	5335628	RENNOVIA	
CORRESPONDENCE DATA			
Fax Number:	9193541278		
<i>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.</i>			
Phone:	919-314-3086		
Email:	diligencereview@square1bank.com		
Correspondent Name:	PACIFIC WESTERN BANK		
Address Line 1:	406 BLACKWELL STREET		
Address Line 2:	SUITE 240		
Address Line 4:	DURHAM, NORTH CAROLINA 27701		
NAME OF SUBMITTER:	NICHOLAS NANCE		
SIGNATURE:	/NICHOLASNANCE/CCD		
DATE SIGNED:	01/23/2018		
Total Attachments: 8			
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INTELLECTUAL PROPERTY SECURITY AGREEMENT

THIS INTELLECTUAL PROPERTY SECURITY AGREEMENT is entered into as of December 8, 2017 by and between PACIFIC WESTERN BANK, a California state chartered bank ("*Bank*") and RENNOVIA INC., a Delaware corporation ("*Grantor*").

RECITALS

A. Bank has made certain advances of money and extended certain financial accommodations to Grantor (the "*Loans*") in the amounts and manner set forth in that certain Loan and Security Agreement by and between Bank, as successor in interest by merger to Square 1 Bank, and Grantor dated as of March 3, 2015 (as amended, restated, modified or supplemented from time to time, the "*Loan Agreement*"; capitalized terms used herein, but not otherwise defined herein, are used herein as defined in the Loan Agreement).

B. Bank is willing to continue to extend financial accommodations to Grantor, but only upon the condition, among others, that Grantor shall grant to Bank a security interest in certain Copyrights, Trademarks and Patents to secure the obligations of Grantor under the Loan Agreement.

C. Pursuant to the terms of the Loan Agreement, Grantor has granted to Bank a security interest in all of Grantor's right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral (including without limitation, the Intellectual Property Collateral).

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Loan Agreement and all other agreements now existing or hereafter arising between Grantor and Bank, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

To secure its obligations under the Loan Agreement and under any other agreement now existing or hereafter arising between Bank and Grantor, Grantor grants and pledges to Bank a security interest in all of Grantor's right, title and interest in, to and under the Intellectual Property Collateral (as defined in the Loan Agreement), including without limitation those Copyrights, Patents and Trademarks listed on Exhibits A, B and C hereto (collectively, "*Intellectual Property Collateral*").

This security interest is granted in conjunction with the security interest granted to Bank under the Loan Agreement. The rights and remedies of Bank with respect to the security interest granted hereby are in addition to those set forth in the Loan Agreement and the other Loan Documents, and those which are now or hereafter available to Bank as a matter of law or equity. Each right, power and remedy of Bank provided for herein or in the Loan Agreement or any of the Loan Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Bank of any one or more of the rights, powers or remedies provided for in this Intellectual Property Security Agreement, the Loan Agreement or any of the other Loan Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Bank, of any or all other rights, powers or remedies.

Grantor represents and warrants that Exhibits A, B, and C attached hereto set forth any and all intellectual property rights in connection to which Grantor has registered or filed an application with either the United States Patent and Trademark Office or the United States Copyright Office, as applicable.

SIGNATURE PAGE FOLLOWS

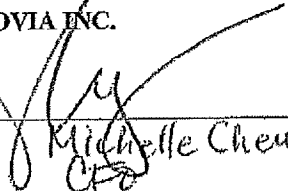
IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

Address of Grantor:

RENNOVIA INC.

3040 Oakmead Village Drive
Santa Clara, California 95051
Attn: Michelle Cheung

By: 
Name: Michelle Cheung
Title: CFO

BANK:

Address of Bank:

PACIFIC WESTERN BANK

406 Blackwell Street, Suite 240
Durham, NC 27701
Attn: Legal Department

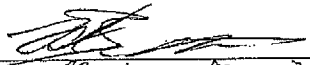
By: 
Name: Michael Barrier
Title: SVP

EXHIBIT A
COPYRIGHTS

None

EXHIBIT B

PATENTS

Description	Application No.	Application Filing Date	Issued Patent No.	Issue Date
PRODUCTION OF ADIPIC ACID AND DERIVATIVES FROM CARBOHYDRATE-CONTAINING MATERIALS	12/814,188	6/11/2010	8,669,397	3/11/2014
PRODUCTION OF GLUTARIC ACID AND DERIVATIVES FROM CARBOHYDRATE-CONTAINING MATERIALS	12/814,216	6/11/2010	8,785,683	7/22/2014
PRODUCTION OF ADIPIC ACID AND DERIVATIVES FROM CARBOHYDRATE-CONTAINING MATERIALS	12/814,240	6/11/2010	8,501,989	8/6/2013
OXIDATION CATALYSTS	12/966,702	12/13/2010	9,770,705	9/26/2017
ADIPIC ACID COMPOSITIONS	12/966,783	12/13/2010	8,669,393	3/11/2014
PRODUCTION OF CAPROLACTAM FROM CARBOHYDRATE-CONTAINING MATERIALS	13/434,756	3/29/2012	9,181,194	11/10/2015
WATER CONCENTRATION REDUCTION PROCESS	13/691,588	11/30/2012	9,216,937	12/22/2015
PROCESS FOR THE SEPARATION OF MONO- AND DI-CARBOXYLIC ACID COMPOUNDS	13/691,611	11/30/2012	9,487,465	11/8/2016
PROCESS FOR PRODUCTION OF HEXAMETHYLENEDIAMINE FROM CARBOHYDRATE-CONTAINING MATERIALS AND INTERMEDIATES THEREFOR	13/739,975	1/11/2013	8,853,458	10/7/2014
PRODUCTION OF CAPROLACTAM FROM ADIPIC ACID	13/766,705	2/13/2013	8,946,411	2/3/2015
REDUCTION CATALYSTS	13/894,351	5/14/2013	9,468,908	10/18/2016
PROCESS FOR PRODUCTION OF ADIPIC ACID FROM 1,6-HEXANEDIOL	13/915,120	6/11/2013	9,035,094	5/19/2015
PRODUCTION OF ADIPIC ACID AND DERIVATIVES FROM CARBOHYDRATE-CONTAINING MATERIALS	13/932,413	7/1/2013	8,927,768	1/6/2015
PRODUCTION OF ADIPIC ACID AND DERIVATIVES FROM CARBOHYDRATE-CONTAINING MATERIALS	14/153,248	1/13/2014	9,156,766	10/13/2015

Description	Application No.	Application Filing Date	Issued Patent No.	Issue Date
PROCESS FOR PRODUCTION OF HEXAMETHYLENEDIAMINE FROM CARBOHYDRATE-CONTAINING MATERIALS AND INTERMEDIATES THEREFOR	14/290,869	5/29/2014	9,035,109	5/19/2015
PRODUCTION OF GLUTARIC ACID AND DERIVATIVES FROM CARBOHYDRATE-CONTAINING MATERIALS	14/291,600	5/30/2014	9,174,911	11/3/2015
CONVERSION OF FRUCTOSE-CONTAINING FEEDSTOCKS TO HMF-CONTAINING PRODUCT	14/606,789	1/27/2015	9,611,241	4/4/2017
PROCESS FOR PRODUCTION OF HEXAMETHYLENEDIAMINE FROM CARBOHYDRATE-CONTAINING MATERIALS AND INTERMEDIATES THEREFOR	14/687,892	4/15/2015	9,518,005	12/13/2016
SHAPED POROUS CARBON PRODUCTS	14/699,942	4/29/2015	9,682,368	6/20/2017
PRODUCTION OF ADIPIC ACID AND DERIVATIVES FROM CARBOHYDRATE-CONTAINING MATERIALS	14/854,780	9/15/2015	9,434,709	9/6/2016
PREPARATION AND SEPARATION OF A DI-CARBOXYLIC ACID-CONTAINING MIXTURE	14/869,237	9/29/2015	9,776,945	10/3/2017
PROCESS FOR PRODUCTION OF HEXANETRIOL FROM 5-HYDROXYMETHYLFURFURAL	14/957,551	12/2/2015	9,586,920	3/7/2017
PRODUCTION OF 1,6-HEXANEDIOL FROM ADIPIC ACID	14/913,730	2/23/2016		
POROUS SHAPED METAL-CARBON PRODUCTS	15/132,048	4/18/2016		
POROUS SHAPED CARBON PRODUCTS	15/131,829	4/18/2016		
CONVERSION OF FRUCTOSE-CONTAINING FEEDSTOCKS TO HMF-CONTAINING PRODUCT	15/132,178	4/18/2016		
PROCESS FOR PRODUCTION OF HEXAMETHYLENEDIAMINE FROM CARBOHYDRATE-CONTAINING MATERIALS AND INTERMEDIATES THEREFOR	15/195,349	6/28/2016	9,783,473	10/10/2017
PRODUCTION OF ADIPIC ACID AND DERIVATIVES FROM CARBOHYDRATE-CONTAINING MATERIALS	15/232,285	8/9/2016		

Description	Application No.	Application Filing Date	Issued Patent No.	Issue Date
PROCESSES FOR THE MANUFACTURING OF OXIDATION CATALYSTS	15/291,786	10/12/2016	9,808,790	11/7/2017
PROCESS FOR PRODUCTION OF ADIPIC ACID FROM 1,6-HEXANEDIOL	15/295,351	10/17/2016		
PROCESS FOR PRODUCTION OF HEXANETRIOL FROM 5-HYDROXYMETHYLFURFURAL	15/417,110	1/26/2017		
CONVERSION OF FRUCTOSE-CONTAINING FEEDSTOCKS TO HMF-CONTAINING PRODUCT	15/437,570	2/21/2017		
SHAPED POROUS CARBON PRODUCTS	15/441,732	2/24/2017		
CATALYST AND PROCESS FOR THE PRODUCTION OF 1,5-PENTANEDIOL	62/514,413	6/2/2017		
PROCESS FOR PRODUCTION OF HEXAMETHYLENEDIAMINE FROM CARBOHYDRATE-CONTAINING MATERIALS AND INTERMEDIATES THEREFOR	15/683,150	8/22/2017		
PREPARATION AND SEPARATION OF A DI-CARBOXYLIC ACID-CONTAINING MIXTURE	15/722,454	10/2/2017		
OXIDATION CATALYSTS	15/803,434	11/3/2017		
PROCESSES FOR THE PRODUCTION OF A TERMINAL-DIOL PRODUCT AND RELATED PRODUCTS AND COMPOSITIONS	62/594,957	12/5/2017		
METAL OXIDE PARTS AND RELATED METHODS AND COMPOSITIONS THEREOF	62/594,945	12/5/2017		

EXHIBIT C
TRADEMARKS

Description	Application No.	Application Filing Date	Registration No.	Registration Date
RENNLON	85/204,416	12/22/2010	4,597,451	9/2/2014
RENNOVIA	86/135,107	12/4/2013		
RENNOVIA	86/135,143	12/4/2013	5,335,628	11/14/2017

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