

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT																
NATURE OF CONVEYANCE:	ASSIGNMENT																
CONVEYING PARTY DATA																	
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Thomas R. Boussie</td><td>03/15/2010</td></tr><tr><td>Eric L. Dias</td><td>03/15/2010</td></tr><tr><td>Zachary M. Fresco</td><td>03/15/2010</td></tr><tr><td>Vincent J. Murphy</td><td>03/15/2010</td></tr><tr><td>James Shoemaker</td><td>03/15/2010</td></tr><tr><td>Raymond Archer</td><td>03/15/2010</td></tr><tr><td>Hong Jiang</td><td>03/15/2010</td></tr></tbody></table>		Name	Execution Date	Thomas R. Boussie	03/15/2010	Eric L. Dias	03/15/2010	Zachary M. Fresco	03/15/2010	Vincent J. Murphy	03/15/2010	James Shoemaker	03/15/2010	Raymond Archer	03/15/2010	Hong Jiang	03/15/2010
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<table border="1"><tr><td>Name:</td><td>Rennovia, Inc.</td></tr><tr><td>Street Address:</td><td>1080 Hamilton Avenue</td></tr><tr><td>City:</td><td>Menlo Park</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>94025</td></tr></table>		Name:	Rennovia, Inc.	Street Address:	1080 Hamilton Avenue	City:	Menlo Park	State/Country:	CALIFORNIA	Postal Code:	94025						
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CORRESPONDENCE DATA																	
Fax Number: (314)231-4342 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																	
Phone: (314) 345-7000																	
Email: uspatents@senniger.com																	
Correspondent Name: Senniger Powers LLP																	
Address Line 1: 100 North Broadway, 17th Floor																	
Address Line 4: St. Louis, MISSOURI 63102																	
ATTORNEY DOCKET NUMBER:	RNVA 6351.2																

501323103

PATENT
REEL: 025154 FRAME: 0473

OP \$40.00 12814188

NAME OF SUBMITTER:

Paul D. Tietz

Total Attachments: 12

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ASSIGNMENT

WHEREAS, We, Thomas R. Boussie of Menlo Park, California, Eric L. Dias of Belmont, California, Zachary M. Fresco of Redwood City, California, Vincent J. Murphy of San Jose, California, James Shoemaker of Gilroy, California, Raymond Archer of Sunnyvale, California, and Hong Jiang of Palo Alto, California, have invented an improvement in PRODUCTION OF ADIPIC ACID AND DERIVATIVES FROM CARBOHYDRATE-CONTAINING MATERIALS (RNVA 6351.1) described in a U.S. provisional patent application assigned Serial No. 61/311,190, filed March 5, 2010;

AND, WHEREAS, Rennovia, Inc. of Menlo Park, California, a corporation of the State of Delaware (hereinafter referred to as "ASSIGNEE") is desirous of acquiring certain rights thereunder;

NOW, THEREFORE, for one dollar and other good and valuable consideration, receipt of all of which is hereby acknowledged, we have agreed to and do hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto in and to said invention, said United States application, any other United States applications (including provisional, non-provisional, divisional, continuing, or reissue applications) based in whole or in part on said United States application or in whole or in part on said invention, any foreign applications based in whole or in part on any of the aforesaid United States applications or in whole or in part on said invention, and any

and all patents (including extensions thereof) of any country which have been or may be granted on any of the aforesaid applications or on said invention or any part thereof;

TO BE HELD AND ENJOYED by said ASSIGNEE, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us had no sale and assignment of said interest been made;

AND We hereby authorize and request the Director of the United States Patent and Trademark Office of the United States of America to issue any and all United States patents which may be granted upon said United States applications or any of them, or upon said invention or any part thereof, to said ASSIGNEE;

AND We hereby jointly and severally agree for ourselves and for our respective heirs, executors and administrators, to execute without further consideration any further lawful documents and any further assurances, and any provisional, non-provisional, divisional, continuing, reissue, or other applications for patents of any country, that may be deemed necessary by said ASSIGNEE fully to secure to said ASSIGNEE its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them;

AND We hereby jointly and severally covenant for ourselves and our respective legal representatives that we have granted no right or license to make, use or sell said invention, to anyone except said ASSIGNEE, that prior to the execution of this deed our right, title and interest in said invention had not been

otherwise encumbered, and that we have not executed and will not execute any instrument in conflict herewith.

IN WITNESS WHEREOF, we have hereunto set our hands.

3/15/10
Date

Thomas R. Boussie
Thomas R. Boussie

STATE OF California)
COUNTY OF San Mateo)

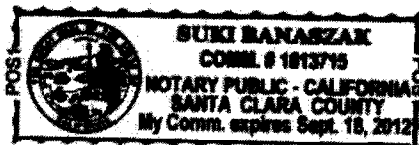
On this 15th day of March, 2010, before me, a Notary Public, personally appeared Thomas R. Boussie to me known to be the person described in and who executed the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal the date and year last above written.

Suzi Banaszak
Notary Public

My Commission Expires:

9/18/2012



March 15, 2010
Date

Eric L. Dias
Eric L. Dias

STATE OF California)
COUNTY OF San Mateo)

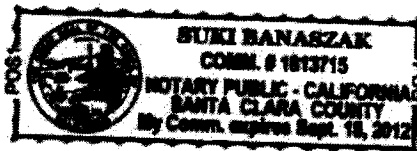
On this 15th day of MARCH, 2010, before me, a Notary Public, personally appeared Eric L. Dias to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Suzi Banaszak
Notary Public


My Commission Expires:

9/18/2012



03-15-2010

Date


Zachary M. Fresco

STATE OF CA)
COUNTY OF San Mateo)

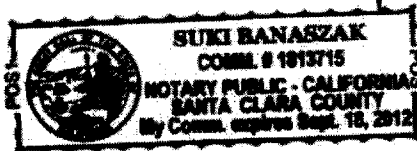
On this 15 day of March, 2010, before me, a Notary Public, personally appeared Zachary M. Fresco to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.


Notary Public

My Commission Expires:

9/18/2012



March 15 2010

Date

Vincent J. Murphy

Vincent J. Murphy

STATE OF CALIFORNIA)

COUNTY OF SANTA CLARA)

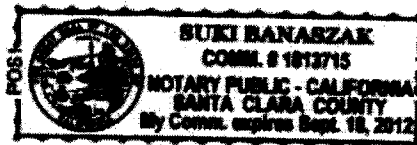
On this 15th day of MARCH, 2010, before me, a Notary Public, personally appeared Vincent J. Murphy to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Suki Banaszak
Notary Public

My Commission Expires:

9/18/2012



03/15/2010

Date

James Shoemaker

James Shoemaker

STATE OF CALIFORNIA)

COUNTY OF SANTA CLARA)

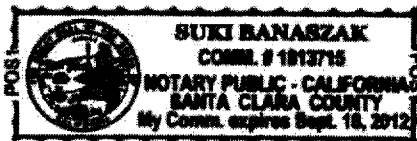
On this 15th day of MARCH, 2010, before me, a Notary Public, personally appeared James Shoemaker to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Suzi Banaszak
Notary Public

My Commission Expires:

9/18/2012



03/15/10

Date

Raymond Archer

Raymond Archer

STATE OF CALIFORNIA)

COUNTY OF SANTA CLARA)

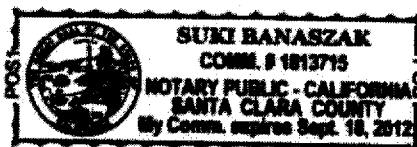
On this 15th day of MARCH, 2010, before me, a Notary Public, personally appeared Raymond Archer to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Suzi Banaszak
Notary Public

My Commission Expires:

9/18/2012



3/15/2010

Date

Hong Jiang

STATE OF California
COUNTY OF Santa Clara

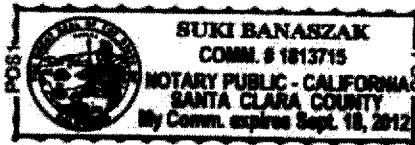
On this 15th day of March, 2010, before me, a Notary Public, personally appeared Hong Jiang to me known to be the person described, in and who executed, the foregoing assignment and acknowledged that he executed same as his free act and deed.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal and the date and year last above written.

Notary Public

My Commission Expires:

9/18/2012



VMK/slw

ACKNOWLEDGMENT

State of California
County of Santa Clara

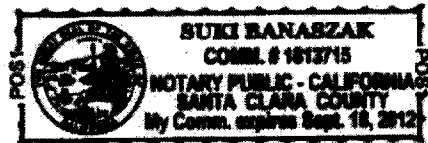
On 15 March 2010 before me, Suki Banaszak Notary Public
(insert name and title of the officer)

personally appeared Vincent J. Murphy, James Shoemaker
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal

Signature Suki Banaszak (Seal)



ACKNOWLEDGMENT

State of California

County of Santa Clara

On 15 March 2010 before me, Suki Banaszak Notary Public
(insert name and title of the officer)

personally appeared Raymond Archer and Hong Siang
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Suki Banaszak

(Seal)



PATENT

REEL: 025154 FRAME: 0485

ACKNOWLEDGMENT

State of California

County of San Mateo

On 15 March 2010 before me, Suki Banaszak Notary Public
(insert name and title of the officer)

personally appeared Zachary M. Fresco, Eric L. Dias, Thomas R. Boussie,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are
subscribed to the within instrument and acknowledged to me that he/she/they executed the same in
his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the
person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Signature Suki Banaszak (Seal)

