

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3160848

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RONG HE	12/09/2014
STANISLAW PLECHA	12/09/2014
MEENAKSHI S. KRISHNAMOORTHY	12/15/2014
BHARAT M. PATEL	12/09/2014
RECEIVING PARTY DATA	
Name:	ADVANCED REFINING TECHNOLOGIES LLC
Street Address:	7500 GRACE DRIVE
City:	COLUMBIA
State/Country:	MARYLAND
Postal Code:	21044
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14409560
CORRESPONDENCE DATA	
Fax Number:	(908)654-7866
<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:	(908) 518-6425
Email:	Assignment@ldlkm.com
Correspondent Name:	LDLK&M
Address Line 1:	600 SOUTH AVENUE WEST
Address Line 4:	WESTFIELD, NEW JERSEY 07090
ATTORNEY DOCKET NUMBER:	GRACE 3.3-016 (E)
NAME OF SUBMITTER:	HARVEY L. COHEN
SIGNATURE:	/Harvey L. Cohen/
DATE SIGNED:	12/23/2014
Total Attachments: 4	
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ASSIGNMENT OF UTILITY APPLICATION

Docket Number (Optional)

GRACE 3.3-016 (E)

Whereas, I, Rong He of 2452 W. Bayshore Road, Palo Alto, California 94303

hereafter referred to as assignor, have with others invented certain new and useful improvements in

IMPROVED RESID HYDROTREATING CATALYST CONTAINING TITANIA

for which an application for a United States Letters Patent was filed on December 19, 2014
Application Number 14/409,560

for which an application for a United States Letters Patent was executed by me on _____

for which an International Application was filed on June 20, 2013, as
PCT/US2013/046753, designating the United States.

And

Whereas, Advanced Refining Technologies LLC
a corporation of Delaware herein referred to as "assignee" whose mailing address is
7500 Grace Drive, Columbia, Maryland 21044

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

12/09/2014
Date

Rong He
Rong He

Nan Chen
Witness

Nan Chen
Typed Name of Witness

*Total of 4 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) GRACE 3.3-016 (E)
<p>Whereas, I, <u>Stanislaw Plecha</u> of <u>10518 Vista Road, Columbia, Maryland 21044</u> hereafter referred to as assignor, have with others invented certain new and useful improvements in <u>IMPROVED RESID HYDROTREATING CATALYST CONTAINING TITANIA</u> <input checked="" type="checkbox"/> for which an application for a United States Letters Patent was filed on <u>December 19, 2014</u> Application Number <u>14/409,560</u> <input type="checkbox"/> for which an application for a United States Letters Patent was executed by me on _____, <input checked="" type="checkbox"/> for which an International Application was filed on <u>June 20, 2013</u>, as <u>PCT/US2013/046753</u>, designating the United States.</p> <p>And</p> <p>Whereas, <u>Advanced Refining Technologies LLC</u> a corporation of <u>Delaware</u> herein referred to as "assignee" whose mailing address is <u>7500 Grace Drive, Columbia, Maryland 21044</u> is desirous of acquiring the entire right, title and interest in the same;</p> <p>NOW, THEREFORE, in consideration of the sum of <u>one</u> dollar (\$ <u>1.00</u>), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.</p> <p>And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.</p> <p><u>December 9, 2014</u> Date</p> <p><u>Stanislaw Plecha</u> Stanislaw Plecha</p> <p><u>Matthew Woods</u> Witness</p> <p><u>Matthew Woods</u> Typed Name of Witness</p>	
<input checked="" type="checkbox"/> *Total of <u>4</u> forms are submitted.	

LE-515

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) GRACE 3.3-016 (E)
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Whereas, I, Meenakshi S. Krishnamoorthy of 7218 Solar Walk, Columbia, Maryland 21046

hereafter referred to as assignor, have with others invented certain new and useful improvements in

IMPROVED RESID HYDROTREATING CATALYST CONTAINING TITANIA

for which an application for a United States Letters Patent was filed on December 19, 2014
Application Number 14/409,560

for which an application for a United States Letters Patent was executed by me on _____

for which an International Application was filed on June 20, 2013, as PCT/US2013/046753, designating the United States.

And

Whereas, Advanced Refining Technologies LLC
a corporation of Delaware herein referred to as "assignee" whose mailing address is 7500 Grace Drive, Columbia, Maryland 21044

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

12/15/2014
Date

K M M V
Meenakshi S. Krishnamoorthy

[Signature]
Witness

CRISTIAN LIBANATI
Typed Name of Witness

*Total of 4 forms are submitted.

ASSIGNMENT OF UTILITY APPLICATION	Docket Number (Optional) GRACE 3.3-016 (E)
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Whereas, I, Bharat M. Patel of 404 Shade Tree Place, Apt. E, Catonsville, Maryland 21228

hereafter referred to as assignor, have with others invented certain new and useful improvements in

IMPROVED RESID HYDROTREATING CATALYST CONTAINING TITANIA

for which an application for a United States Letters Patent was filed on December 19, 2014
Application Number 14/409,560

for which an application for a United States Letters Patent was executed by me on _____

for which an International Application was filed on June 20, 2013, as PCT/US2013/046753, designating the United States.

And

Whereas, Advanced Refining Technologies LLC
a corporation of Delaware herein referred to as "assignee" whose mailing address is 7500 Grace Drive, Columbia, Maryland 21044

is desirous of acquiring the entire right, title and interest in the same;

NOW, THEREFORE, in consideration of the sum of one dollar (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I as assignor hereby sell, assign and set over to said assignee my entire right, title and interest for the United States of America and all other countries in and to said invention and the aforesaid utility patent application and all original, divisional, continuation, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, for said invention, including without limitation all applications and patents for said invention claiming priority or benefit of the aforesaid utility application pursuant to any law or treaty, and including all claims for damages by reason of past infringement with the right to sue for and collect the same for its own use and the use of its successors, assigns and legal representatives, and including the right to claim such priority or benefit and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said improvements or resulting therefrom to said assignee herein, as assignee of the entire interest therein; and the undersigned for me and my legal representatives, heirs and assigns do hereby agree and covenant without further remuneration, to execute and deliver all original, divisional, continuation, reissue and other applications for Letters Patent on said improvements and all assignments thereof to said assignee or its assigns, to communicate to said assignee or its representatives all facts known to the undersigned respecting said improvements, whenever requested, to testify in any interferences or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths, and to do generally everything necessary to aid assignee, its successors, assigns and nominees to obtain patent protection for said improvements in all countries, the expenses incident to said applications to be borne and paid by said assignee.

And I do hereby authorize my attorneys to insert on this deed the filing date and application number of said application when known.

12/9/14
Date

Bharat M Patel
Bharat M. Patel

Matthew Woods
Witness

Matthew Woods
Typed Name of Witness

*Total of 4 forms are submitted.