

**Señor Director
DIRECCION DE NUEVAS CREACIONES
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO
Bogotá, D.C.**

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 10-139617-00006-0000

Fecha: 2011-04-04 13:39:22 Dep. 2020 DIR.NUEVASCR
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 444 RESPUESTAREQUE Folios: 42

**Re.: Expediente No. 10 139.617
Fase Nacional de Solicitud
de Patente PCT a nombre de
BATTELLE MEMORIAL INSTITUTE
Código 011 – 378 - 444**

En relación con la solicitud contenida en el expediente de la referencia y, en particular, para dar respuesta a su requerimiento contenido en el Oficio No. 15850, dentro del término conferido, por medio del presente escrito me permito manifestarle:

1. Mi representada me ha dado precisas instrucciones de modificar el título de la solicitud por el de
“ Un proceso de hidrogenólisis para la preparación de un catalizador de hidrogenólisis y método de preparación del mismo”
2. Acompaño el comprobante de pago por concepto de ésta modificación, Recibo No. 11-30-184
3. Acompaño copia auténtica del poder conferido por mi representada, Battelle Memorial Institute, debidamente firmado, autenticado ante Notario Público quien certifica la existencia y representación legal de la sociedad y legalizado por Apostilla.
4. Acompaño copia certificada del documento en que consta la cesión del derecho a la patente de los Inventores

– Johnathan E. Holladay
– James F. White
– Thomas H. Peterson
– John G. Frye
– Danielle S. Muzatko

A favor de la sociedad solicitante Battelle Memorial Institute, debidamente firmado autenticado por Notario Público y legalizado por Apostilla.

5. Los restantes Inventores

- Simon R. Bare
- James G. Vassilakis
- Richard R. Rosin

cedieron su derecho a la patente a la sociedad UOP LLC, en fecha posterior a la de la solicitud Estadounidense de la cual se reivindica prioridad No. 12/082,997.

Acompaño entonces la copia certificada del documento en que consta la cesión del derecho a la patente de estos Inventores a favor de la sociedad solicitante UOP LLC, debidamente firmado, autenticado por Notario Público y legalizado por Apostilla.

6. Acompaño copia auténtica del poder conferido por mi representada, UOP LLC, debidamente firmado, autenticado ante Notario Público quién certifica la existencia y representación legal de la sociedad y legalizado por Apostilla.

7. Como consecuencia de lo anterior y al mismo tiempo con este escrito presento el Formulario de Modificación por medio del cual solicito se agregue a la sociedad UOP LLC como solicitante en este caso, en razón de la cesión efectuada por los tres inventores mencionados.

Le solicito se sirva agregar este escrito y sus anexos al expediente y continuar con el trámite de la solicitud.

De Usted Atentamente,

GERMAN CASTILLO GRAU
T.P. No. 2.978 del C.S.J.

UNITED STATES OF AMERICA

The State of



Washington

Secretary of State

APOSTILLE

(Convention de la Haye du 5 Octobre 1961)

1. Country: **United States of America**

2. This public document has been
signed by:

KELLI L. EADIE

3. acting in the capacity of:

Notary Public, state of Washington

4. bears the seal/stamp of:

KELLI L. EADIE

CERTIFIED

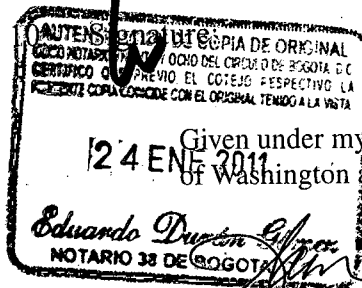
5. at: **Olympia, Washington**

6. the: 30 day of December, 2010

7. by: **Sam Reed, Secretary of State**

8. No: 201018546

9. Seal/Stamp:



Given under my hand and the Seal of the State
of Washington at Olympia, the State Capital

Sam Reed, Secretary of State

Castillo Grau & Associates

Law Offices
P.O. Box 251473
Bogotá, Colombia

FOR PATENTS AND TRADEMARKS IN

COLOMBIA

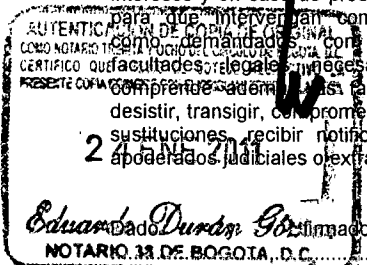
PODER GENERAL

(1) BATTELLE MEMORIAL INSTITUTE

domiciliado en (2) 902 Battelle Boulevard, P.O. Box 999, Richland, Estado de Washington, E.U.A.

nombra al Dr. Germán Castillo Grau y/o Adriana Castillo Gibsone y/o Luis Felipe Castillo Gibsone

con oficinas en la Carrera 13 No. 37-43, Piso 12 en Bogotá, D.C., Colombia como sus representantes con poder especial amplio y suficiente, para recabar de las oficinas y autoridades Colombianas, administrativas, judiciales o de policía, en primera o segunda instancia, la Obtención de Patentes de Invención, Registro de Marcas, de Diseños Industriales, de Nombres y Enseñas Comerciales, lo mismo que traspasos, extensiones, renovaciones, cambios de nombre y domicilio, registro de licencias de explotación y registro de licencias de uso referentes a tales actuaciones, a cuyo efecto les faculta para dar ante dichas autoridades todos los pasos necesarios al objeto indicado, elevar solicitudes, formular descripciones, enmiendas, protestas, declaraciones, apelaciones y reclamos, solicitar la aplicación de medidas cautelares, aceptar en nuestro nombre y representación la Cesión de derechos de invención y de patente de invención que se nos haga por cualquier persona, abonar todos los impuestos cuotas y pagos determinados por la ley, recibir todos los documentos y valores dando el descargo respectivo, llenar cualesquiera otros requisitos, desistir, y tomar en fin todas las medidas que creyeren conducentes al resguardo de nuestros intereses y en caso de presentarse oposiciones para que intervengamos como demandantes o como demandados con todas las demás facultades legales y necesarias. Este poder comprende además las facultades de recibir, desistir, transigir, comprometer, sustituir, revocar sustituciones, recibir notificaciones y nombrar apoderados judiciales o extra-judiciales



Dado en Bogotá, D.C. a 27 de Diciembre de 2010. Firmado en (4)

Firma/Signature

Corporate Seal to be Affixed

GENERAL POWER OF ATTORNEY

(1) BATTELLE MEMORIAL INSTITUTE

domiciled in (2) 902 Battelle Boulevard, P.O. Box 999, Richland, Washington, U.S.A.

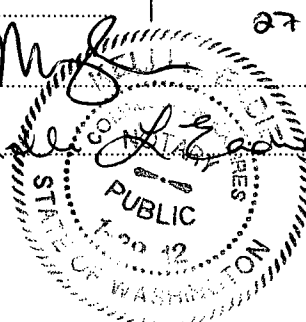
hereby appoint Dr. Germán Castillo Grau and/or Adriana Castillo-Gibsone and/or Luis Felipe Castillo-Gibsone

with offices at Carrera 13 No. 37-43, 12th Floor in Bogotá, Colombia as our representatives with special ample and sufficient power to obtain from the offices and Colombian authorities, administrative, judicial and police, in first or in second instance, Patents of Invention, registration of Trade or Service Marks, Industrial Designs, of Commercial Names and Ensigns, as well as assignments, extensions, renewals, changes of names and addresses, registration of licences of exploitation and licences of use referring to said actions who are empowered to take before said authorities all of the necessary steps for the purposes indicated, to file applications, to formulate descriptions, corrections, protests, declarations, appeals and claims, apply for precautionary measures, to accept on our behalf and representation the assignment of rights on invention and titles of invention that may be given to us by any person, to pay all taxes, quotas and payments prescribed by law, to receive all the documents and proceeds giving the respective acquiescence or receipt, to fulfill any other requisites to desist and take in fact any other measures that may be deemed conducive to the safeguard of our interests, and in case oppositions are presented to intervene as plaintiff or defendant, with all necessary legal faculties. This power includes the faculties to receive, desist, compromise, transact, substitute it in all or in part, to revoke substitutions, to receive notifications and to appoint judicial or extra-judicial attorneys.

Given and signed in (4)

Richard W.A.

27 Dec 2010



DECLARACION NOTARIAL
(Individual)

A los días del mes de de 2010
compareció personalmente ante mí, Notario
Público el/la señor(a)

A quien(es) doy fe de conocer y me consta que
es(son) la(s) persona(s) descrita(s) y firmante(s)
del documento que precede, declarando ante mí
que otorga(n) el mismo para los fines y
propósitos que en él se expresan.

El Notario Público

.....
(Sociedades)

El infrascrito Notario certifica: que la(s) firma(s)

que antecede(n) y dice(n):

.....
es (son) auténtica(s); que el (los) signatario(s)
desempeña(n) el (los)

cargo(s) de

.....
de **BATTELLE MEMORIAL INSTITUTE**

que tiene(n) facultad para otorgar este poder; y
que dicha compañía está domiciliada en
Richland, Estado de Washington, E.U.A.

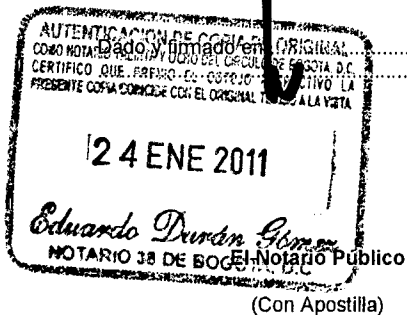
y actualmente existe y está organizada de

acuerdo a las leyes de

.....
Todos los hechos anteriores le constan por

haber examinado los documentos respectivos y

de todo ello da fe.



NOTARIAL CERTIFICATE
(Individuals)

On this 27th day of December of 2010....
personally appeared before me, a Notary Public,
Derek Maughan.....

to me known, and known to be the person(s)
described in and who executed the foregoing
document, and he(they) duly acknowledged to
me that he(they) executed same for the uses
and purposes therein expressed.

Notary Public

.....
Kelli L Eadie

.....
(Corporations)

The undersigned Notary Public certifies: that

the preceding signature(s) reading ..

Derek Maughan
is (are) authentic; that the signor(s) at present
fill(s) the

post(s) of

Manager, IP Legal Services

of **BATTELLE MEMORIAL INSTITUTE**

and that he/she (they) is (are) empowered to
grant this power; and that said company is
domiciled in Richland, Washington, U.S.A.

and actually exists and is organized in
accordance with the laws of

the State of Washington, USA

All the foregoing facts are known to the Notary

due to his/her having examined the respective

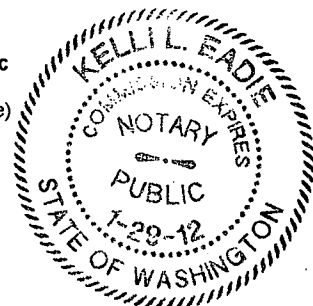
documents to which he/she, the Notary, attests.

Granted in Richland and Washington signed

.....
Kelli L Eadie

Notary Public

(With Apostille)



653

Castillo Grau & Associates

Law Offices
P.O. Box 251473
Bogotá, Colombia

**FOR PATENTS AND TRADEMARKS IN
COLOMBIA**

(1)

domiciliado en (2) UOP LLC

25, East Algonquin Road,
DES PLAINES, Illinois
60017-5017 U.S.A.

nombra al Dr. Germán Castillo Grau y/o Adriana
Castillo Gibsone y/o Luis Felipe Castillo Gibsone

.....
con oficinas en la Carrera 13 No. 37-43, Piso 12 en
Santafé de Bogotá, D.C., Colombia como sus
representantes con poder especial amplio y suficiente,
para recabar de las oficinas y autoridades
Colombianas, administrativas, judiciales o de policía, en
primera o segunda instancia, la Obtención de Patentes
de Invención, Registro de Marcas, de Diseños
Industriales, de Nombres y Enseñas Comerciales, lo
mismo que trasposos, extensiones, renovaciones,
cambios de nombre y domicilio, registro de licencias de
explotación y registro de licencias de uso referentes a
tales actuaciones, a cuyo efecto les faculta para dar
ante dichas autoridades todos los pasos necesarios al
objeto indicado, elevar solicitudes, formular
descripciones, enmiendas, protestas, declaraciones,
apelaciones y reclamos, solicitar la aplicación de
medidas cautelares, aceptar en nuestro nombre y
representación la Cesión de derechos de invención y
de patente de invención que se nos haga por cualquier
persona, abonar todos los impuestos cuotas y pagos
determinados por la ley, recibir todos los documentos y
valores dando el descargo respectivo, llenar
cualesquiera otros requisitos, desistir, y tomar en fin
todas las medidas que creyeren conducentes al
resguardo de nuestros intereses y en caso de
presentarse oposiciones para que intervengan como
demandantes o como demandados, con todas las
demás facultades legales necesarias. Este poder
comprende además las facultades de recibir, desistir,
transigir, comprometer, sustituir, revocar sustituciones,
recibir notificaciones en nombre de poderados judiciales o
extra-judiciales

Dado

Firma/Signature.....

Corporate Seal to be Affixed..... Assistant Secretary-Patent Matters.....

(1) UOP LLC

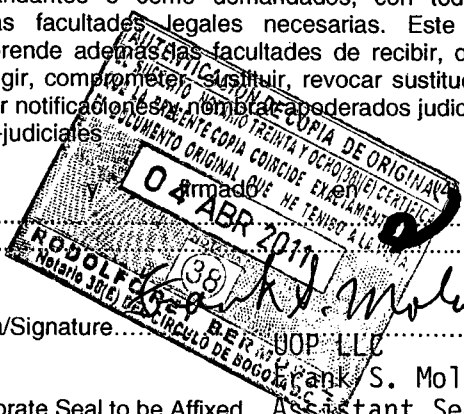
domiciled in (2)

25, East Algonquin Road,
DES PLAINES, Illinois
60017-5017 U.S.A.

hereby appoint Dr. Germán Castillo Grau and/or
Adriana Castillo-Gibsone and/or Luis Felipe Castillo-
Gibsone

.....
with offices at Carrera 13 No. 37-43, 12th Floor in
Bogotá, Colombia as our representatives with special
ample and sufficient power to obtain from the offices
and Colombian authorities, administrative, judicial and
police, in first or in second instance, Patents of
Invention, registration of Trade or Service Marks,
Industrial Designs, of Commercial Names and Ensigns,
es well as assignments, extensions, renewals, changes
of names and addresses, registration of licences of
exploitation and licences of use referring to said actions
who are empowered to take before said authorities all
of the necessary steps for the purposes indicated, to file
applications, to formulate descriptions, corrections,
protests, declarations, appeals and claims, apply for
precautionary measures, to accept on our behalf and
representation the assignment of rights on invention
and titles of invention that may be done to us by any
person, to pay all taxes, quotas and payments
prescribed by law, to receive all the documents and
proceeds giving the respective acquittance or receipt, to
fulfill any other requisites to desist and take in fact any
other measures that may be deemed conducive to the
safeguard of our interests, and in case oppositions are
presented to intervene as plaintiff or defendat, with all
necessary legal faculties. This power includes the
faculties to receive, desist, compromise, transact,
substitute it in all or in part, to revoke substitutions, to
receive notifications and to appoint judicial or extra-
judicial attorneys.

Given and signed in (4)





SPRINGFIELD, ILLINOIS

APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

1. Country: United States of America
This public document
2. has been signed by MARGHERITA M. LARICCHIA
3. acting in the capacity of NOTARY PUBLIC, COOK COUNTY
4. bears the seal/stamp of STATE OF ILLINOIS

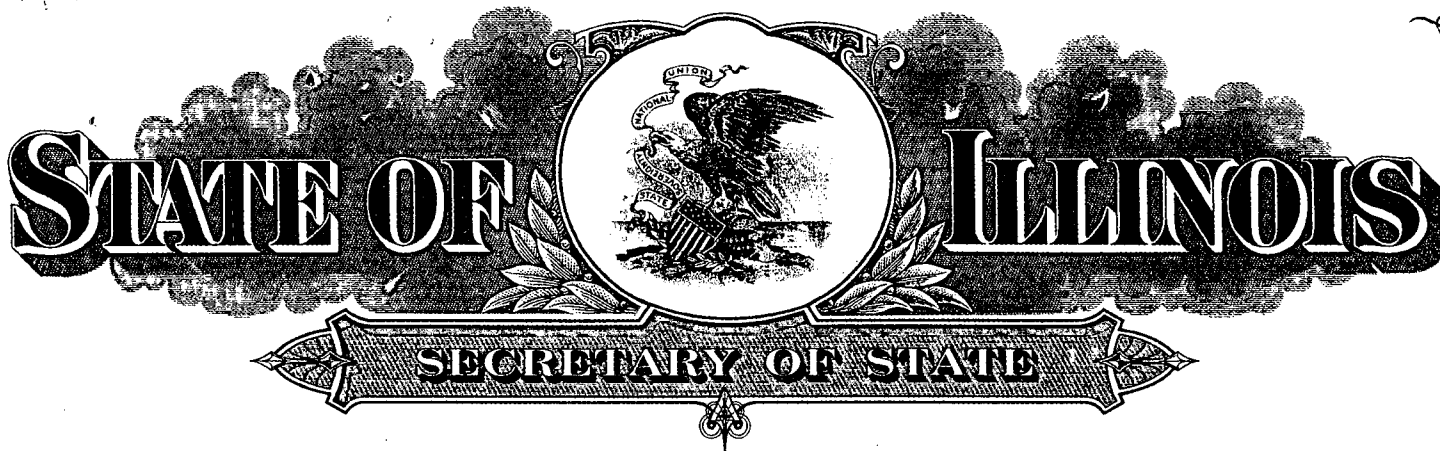
Certified

5. Springfield, Illinois
6. MAY 26, 2009
7. by the Secretary of State, State of Illinois
8. No. S09KL12612
9. Seal/Stamp:
10. Signature:



Esse White
ESSE WHITE
SECRETARY OF STATE
STATE OF ILLINOIS





SPRINGFIELD, ILLINOIS

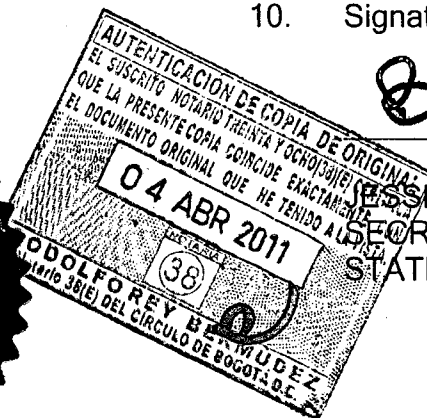
APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

1. Country: United States of America
This public document
2. has been signed by MARGHERITA M. LARICCHIA
3. acting in the capacity of NOTARY PUBLIC, COOK COUNTY
4. bears the seal/stamp of STATE OF ILLINOIS

Certified

5. Springfield, Illinois
6. MAY 26, 2009
7. by the Secretary of State, State of Illinois
8. No. S09KL12613
9. Seal/Stamp:
10. Signature:



Jesse White

JESSE WHITE
SECRETARY OF STATE
STATE OF ILLINOIS



DECLARACION NOTARIAL

(Individual)

A los 21 días del mes de Mayo de 2009
comparecí... personalmente ante mí, Notario
Público Frank S. Molinaro.....

A quien(es) doy fé de conocer y me consta que es(son) la(s)
persona(s) descrita(s) y firmante(s) del documento que
precede, declarando ante mí que otorga(n) el mismo para los
fines y propósitos que en él se expresan.

El Notario Público

(Sociedades)

El infrascrito Notario certifica: que la firma que antecede
y dice
Frank S. Molinaro.....

es auténtica; que el signatario desempeña el
cargo de
Subsecretario en asuntos de Patentes
de UOP LLC
que tiene facultad para otorgar este poder; y que dicha
compañía está domiciliada en Des Plaines, Illinois;
EUA
y actualmente existe y está organizada de
acuerdo a las leyes de

Delaware

Todos los hechos anteriores le constan por
haber examinado los documentos respectivos y
de todo ello da fe..

Dado y firmado en Des Plaines, Illinois
Mayo 21, 2009.....

Frank S. Molinaro
Subsecretario en asuntos de Patentes
El Notario Público
(Con Legalización Consular)

NOTARIAL CERTIFICATE

(Individuals)

On this 21 day of May of 2009
personally appeared before me, a Notary Public,
Frank S. Molinaro.....

to me known, and known to me be the person(s) described in
and who executed the foregoing document, and he(they) duly
acknowledged to me that he(they) executed same for the uses
and purposes therein expressed.

Notary Public

Margherita M. Laricchia



(Corporations)

The undersigned Notary Public certifies: that
The preceding signature reading Frank S. Molinaro

is authentic; that the signor at present fills the
post of
Assistant Secretary-Patent Matters
of UOP LLC
and that he is empowered to grant this power; and that said
company is domiciled in Des Plaines, Illinois; USA

and actually exists and is organized in accordance with the
laws of

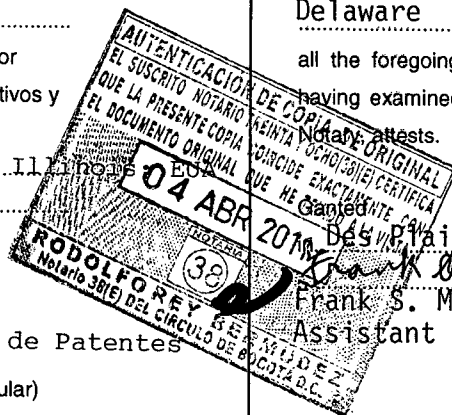
Delaware

all the foregoing facts are known to the Notary due to his
having examined the respective documents to which he, the
Notary attests.

and signed
Des Plaines, Illinois; USA
May 21, 2009

Frank S. Molinaro
Assistant Secretary-Patent Matters
Notary Public

(With Consular Legalization)



Margherita M. Laricchia



UNITED STATES OF AMERICA

The State of



Washington

Secretary of State

APOSTILLE

(Convention de la Haye du 5 Octobre 1961)

1. Country: **United States of America**

2. This public document has been
signed by:

MARK W. HENDRICKSEN

3. acting in the capacity of:

Notary Public, state of Washington

4. bears the seal/stamp of:

MARK W. HENDRICKSEN

CERTIFIED

5. at: **Olympia, Washington**

6. the: 5 day of January, 2011

7. by: **Sam Reed, Secretary of State**

8. No: 201100065

9. Seal/Stamp:

10. Signature:



Given under my hand and the Seal of the State
of Washington at Olympia, the State Capital

Sam Reed, Secretary of State

MSB

Certification

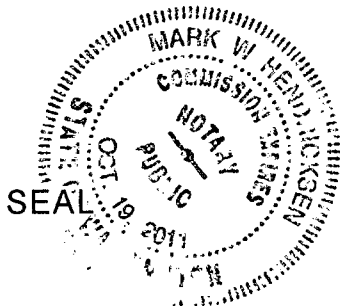
This is to certify that the annexed certified copy of Assignment which was recorded in the United States Patent and Trademark Office on September 24, 2010, is a true and correct copy of the original Assignment document executed by Johnathan E. Holladay, James F. White, Thomas H. Peterson, John G. Frye Jr., and Danielle S. Muzatko as Inventors, in favor of Battelle Memorial Institute.

Dated: 1/3/11


Robert C. Hyta

State of WASHINGTON)
) ss.
County of Spokane)

On this 3rd day of January, 2011, before me, a Notary Public, personally appeared Robert C. Hyta, who is known to me to be the person whose name is subscribed above, who executed it and acknowledged such execution to be voluntary and for the purposes set forth therein.




Notary Public for the State of Washington
residing at Spokane

[City] 10/19/2011
Commission Expires: _____

12 89

ASSIGNMENT

PARTIES TO THE ASSIGNMENT:

INVENTORS:

Johnathan E. Holladay
James F. White
Thomas H. Peterson
John G. Frye, Jr.
Danielle S. Muzatko

ASSIGNEE:

Battelle Memorial Institute
Pacific Northwest Division
P.O. Box 999
Richland, WA 99352
United States

BACKGROUND OF THIS ASSIGNMENT:

Inventors have conceived certain new and useful inventions disclosed in a United States patent application titled Hydrogenolysis Processes and Hydrogenolysis Catalyst Preparation Methods, United States patent application 12/082,997, filed April 16, 2008.

Battelle Memorial Institute (hereinafter referred to as "ASSIGNEE") desires to acquire the entire right, title and interest in said inventions and with respect to any Letters Patent that may be granted with respect to the inventions in both the United States and in all foreign countries.

12/60

THE PARTIES AGREE AS FOLLOWS:

In consideration of good and valuable consideration, the receipt, sufficiency and adequacy of which is hereby acknowledged, INVENTORS have sold, assigned and transferred, and by these present do hereby sell, assign and transfer to ASSIGNEE the entire right, title and interest in the above-identified inventions and application and to any reissues, renewals, divisions or continuations of the application thereof, and hereby authorizes the Commissioner of Patents and Trademarks to issue such Letters Patent to ASSIGNEE for the sole use of ASSIGNEE, its successors or assigns.

INVENTORS further agree to execute, at the request and expense of ASSIGNEE, such other formal documents as may be required to fully convey the interest transferred herein and will similarly execute any patent application papers (foreign or domestic) required for the filing of any divisional, continuation, renewal or reissue of the patent application or resulting Letters Patent; and will generally do everything necessary or desirable to obtain and enforce proper protection for the inventions assigned hereby.

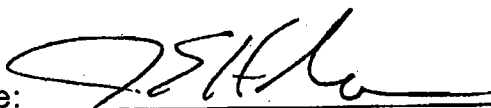
INVENTORS further assign to ASSIGNEE the whole right, title and interest in the inventions disclosed in the application throughout all countries foreign to the United States. ASSIGNEE is hereby authorized to apply for patents relating to the inventions in its own name in countries where such procedure is proper; to claim the benefit of the International Convention; to file and prosecute International Applications relating to the

inventions under the Patent Cooperation Treaty; and to file and prosecute applications relating to the inventions under the European Patent Convention. INVENTORS agree to execute applications relating to the inventions in those countries and under those conventions where it is necessary that the same be executed by the inventor, and to execute assignments of such applications and the resulting Letters Patent to ASSIGNEE as well as all other necessary papers in relation to such applications and Letters Patent. INVENTORS hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country as proof of the right of ASSIGNEE to apply for patent and other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

To be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

1562

Dated: 7-11-2008

Signature: 
Johnathan E. Holladay

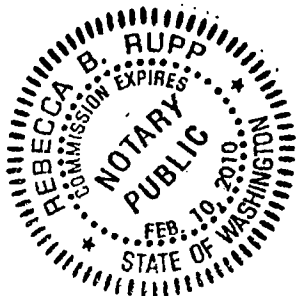
State of Washington

County of Benton

)
) ss.
)

On this 11 day of July, 2008,
before me, Rebecca B Rupp (name and title of
Notary Official), personally appeared Johnathan E. Holladay, known or
identified to me (or proved to me on the basis of satisfactory evidence) to be
the person whose name is subscribed to the within Assignment, and
acknowledged to me that he/she executed the Assignment in his/her
authorized capacity, and that by his/her signature on the Assignment, the
person executed the Assignment.

SEAL



Rebecca B. Rupp
My Commission Expires: 2/10/2010

Dated: July 1, 2008

Signature: James F. White
James F. White

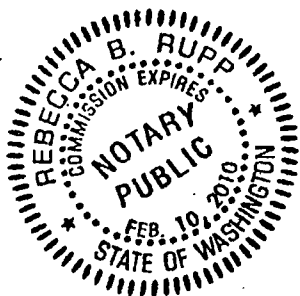
State of Washington

County of Benton

)
) ss.
)

On this 1st day of July, 2008,
before me, Rebecca B. Rupp (name and title of
Notary Official), personally appeared James F. White, known or identified to
me (or proved to me on the basis of satisfactory evidence) to be the person
whose name is subscribed to the within Assignment, and acknowledged to
me that he/she executed the Assignment in his/her authorized capacity, and
that by his/her signature on the Assignment, the person executed the
Assignment.

SEAL



Rebecca B. Rupp
My Commission Expires: 2/10/2010

Dated: July 24, 2008

Signature: Thomas H. Peterson
Thomas H. Peterson

State of Michigan

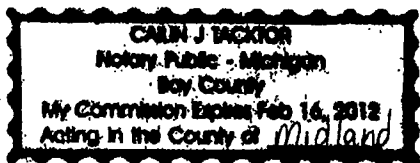
County of Midland

)
) ss.
)

On this 24th day of July, 2008,
before me, Caillin J. Tacktor (name and title of
Notary Official), personally appeared Thomas H. Peterson, known or
identified to me (or proved to me on the basis of satisfactory evidence) to be
the person whose name is subscribed to the within Assignment, and
acknowledged to me that he/she executed the Assignment in his/her
authorized capacity, and that by his/her signature on the Assignment, the
person executed the Assignment.

SEAL

Caillin J. Tacktor
My Commission Expires: 02/16/2012



Dated: July 1, 2008

Signature: John G. Frye, Jr.
John G. Frye, Jr.

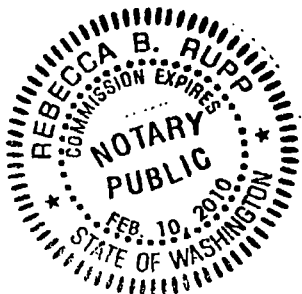
State of Washington

County of Benton

)
) ss.
)

On this 1 day of July, 2008,
before me, Rebecca B. Rupp (name and title of
Notary Official), personally appeared John G. Frye, Jr., known or identified
to me (or proved to me on the basis of satisfactory evidence) to be the
person whose name is subscribed to the within Assignment, and
acknowledged to me that he/she executed the Assignment in his/her
authorized capacity, and that by his/her signature on the Assignment, the
person executed the Assignment.

SEAL



Rebecca B. Rupp
My Commission Expires: 2/10/2010

Dated: July 7, 2008

Signature: Danielle S. Muzatko

Danielle S. Muzatko

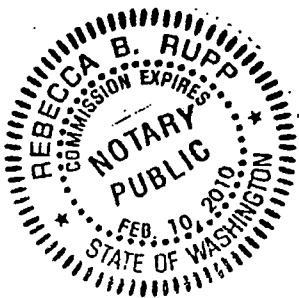
State of Washington

County of Benton

)
) ss.
)

On this 7 day of July, 2008,
before me, Rebecca B. Rupp (name and title of
Notary Official), personally appeared Danielle S. Muzatko, known or
identified to me (or proved to me on the basis of satisfactory evidence) to be
the person whose name is subscribed to the within Assignment, and
acknowledged to me that he/she executed the Assignment in his/her
authorized capacity, and that by his/her signature on the Assignment, the
person executed the Assignment.

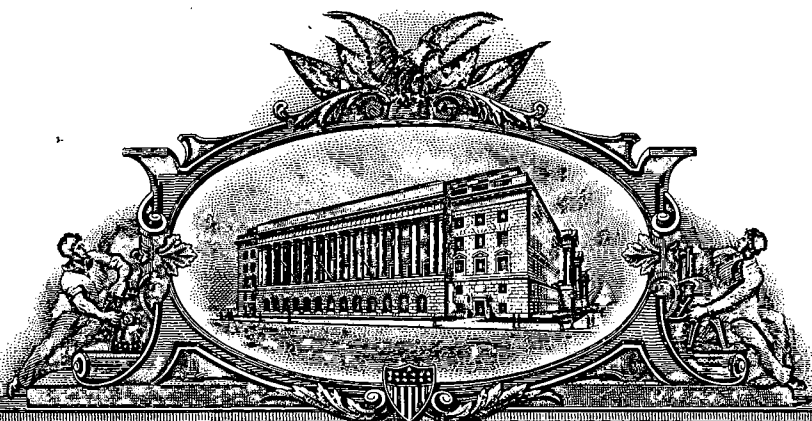
SEAL



Rebecca B. Rupp
My Commission Expires: 2/10/2010

2468

A 7267034



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

November 09, 2010

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE
RECORDS OF THIS OFFICE OF A DOCUMENT RECORDED ON
SEPTEMBER 24, 2010.

By Authority of the
Under Secretary of Commerce for Intellectual Property
and Director of the United States Patent and Trademark Office

M. TARVER
Certifying Officer



69
28

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>Johnathan E. Holladay</td> <td>07/11/2008</td> </tr> <tr> <td>James F. White</td> <td>07/01/2008</td> </tr> <tr> <td>Thomas H. Peterson</td> <td>07/24/2008</td> </tr> <tr> <td>John G. Frye Jr.</td> <td>07/01/2008</td> </tr> <tr> <td>Danielle S. Muzatko</td> <td>07/07/2008</td> </tr> </tbody> </table>		Name	Execution Date	Johnathan E. Holladay	07/11/2008	James F. White	07/01/2008	Thomas H. Peterson	07/24/2008	John G. Frye Jr.	07/01/2008	Danielle S. Muzatko	07/07/2008
Name	Execution Date												
Johnathan E. Holladay	07/11/2008												
James F. White	07/01/2008												
Thomas H. Peterson	07/24/2008												
John G. Frye Jr.	07/01/2008												
Danielle S. Muzatko	07/07/2008												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Battelle Memorial Institute</td> </tr> <tr> <td>Street Address:</td> <td>902 Battelle Boulevard, P.O. Box 999</td> </tr> <tr> <td>Internal Address:</td> <td>Pacific Northwest Division</td> </tr> <tr> <td>City:</td> <td>Richland</td> </tr> <tr> <td>State/Country:</td> <td>WASHINGTON</td> </tr> <tr> <td>Postal Code:</td> <td>99352</td> </tr> </table>		Name:	Battelle Memorial Institute	Street Address:	902 Battelle Boulevard, P.O. Box 999	Internal Address:	Pacific Northwest Division	City:	Richland	State/Country:	WASHINGTON	Postal Code:	99352
Name:	Battelle Memorial Institute												
Street Address:	902 Battelle Boulevard, P.O. Box 999												
Internal Address:	Pacific Northwest Division												
City:	Richland												
State/Country:	WASHINGTON												
Postal Code:	99352												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>PCT Number:</td> <td>US0940695</td> </tr> </tbody> </table>		Property Type	Number	PCT Number:	US0940695								
Property Type	Number												
PCT Number:	US0940695												
CORRESPONDENCE DATA													
Fax Number: (509)838-3424 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 5096244276 Email: sschwarz@wellsstjohn.com Correspondent Name: Robert C. Hyta Address Line 1: 601 W. 1st Avenue Address Line 2: Suite 1300 Address Line 4: Spokane, WASHINGTON 99201													
ATTORNEY DOCKET NUMBER:	BA4-361												

OP \$40.00 US0940695

501301100

PATENT
REEL: 025042 FRAME: 0022

70
23

NAME OF SUBMITTER:

Robert C. Hyta

Total Attachments: 8

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source=Battelle Assignment#page8.tif

PATENT
REEL: 025042 FRAME: 0023

2/7/11

ASSIGNMENT

PARTIES TO THE ASSIGNMENT:

INVENTORS:

Johnathan E. Holladay
James F. White
Thomas H. Peterson
John G. Frye, Jr.
Danielle S. Muzatko

ASSIGNEE:

Battelle Memorial Institute
Pacific Northwest Division
P.O. Box 999
Richland, WA 99352
United States

BACKGROUND OF THIS ASSIGNMENT:

Inventors have conceived certain new and useful inventions disclosed in a United States patent application titled Hydrogenolysis Processes and Hydrogenolysis Catalyst Preparation Methods, United States patent application 12/082,997, filed April 16, 2008.

Battelle Memorial Institute (hereinafter referred to as "ASSIGNEE") desires to acquire the entire right, title and interest in said inventions and with respect to any Letters Patent that may be granted with respect to the inventions in both the United States and in all foreign countries.

2572

THE PARTIES AGREE AS FOLLOWS:

In consideration of good and valuable consideration, the receipt, sufficiency and adequacy of which is hereby acknowledged, INVENTORS have sold, assigned and transferred, and by these present do hereby sell, assign and transfer to ASSIGNEE the entire right, title and interest in the above-identified inventions and application and to any reissues, renewals, divisions or continuations of the application thereof, and hereby authorizes the Commissioner of Patents and Trademarks to issue such Letters Patent to ASSIGNEE for the sole use of ASSIGNEE, its successors or assigns.

INVENTORS further agree to execute, at the request and expense of ASSIGNEE, such other formal documents as may be required to fully convey the interest transferred herein and will similarly execute any patent application papers (foreign or domestic) required for the filing of any divisional, continuation, renewal or reissue of the patent application or resulting Letters Patent; and will generally do everything necessary or desirable to obtain and enforce proper protection for the inventions assigned hereby.

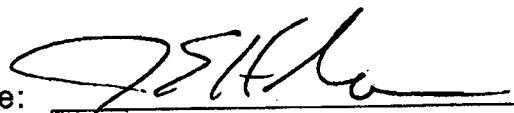
INVENTORS further assign to ASSIGNEE the whole right, title and interest in the inventions disclosed in the application throughout all countries foreign to the United States. ASSIGNEE is hereby authorized to apply for patents relating to the inventions in its own name in countries where such procedure is proper; to claim the benefit of the International Convention; to file and prosecute International Applications relating to the

73
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inventions under the Patent Cooperation Treaty; and to file and prosecute applications relating to the inventions under the European Patent Convention. INVENTORS agree to execute applications relating to the inventions in those countries and under those conventions where it is necessary that the same be executed by the inventor, and to execute assignments of such applications and the resulting Letters Patent to ASSIGNEE as well as all other necessary papers in relation to such applications and Letters Patent. INVENTORS hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country as proof of the right of ASSIGNEE to apply for patent and other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

To be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Dated: 7-11-2008

Signature: 

Johnathan E. Holladay

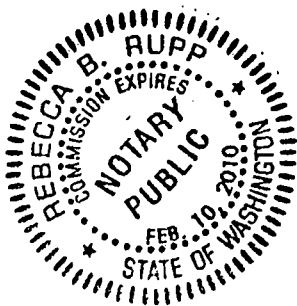
State of Washington

County of Benton

)
) ss.
)

On this 11 day of July, 2008,
before me, Rebecca B Rupp (name and title of
Notary Official), personally appeared Johnathan E. Holladay, known or
identified to me (or proved to me on the basis of satisfactory evidence) to be
the person whose name is subscribed to the within Assignment, and
acknowledged to me that he/she executed the Assignment in his/her
authorized capacity, and that by his/her signature on the Assignment, the
person executed the Assignment.

SEAL



Rebecca B Rupp
My Commission Expires: 2/10/2010

75
28

Dated: July 1, 2008

Signature: 
James F. White

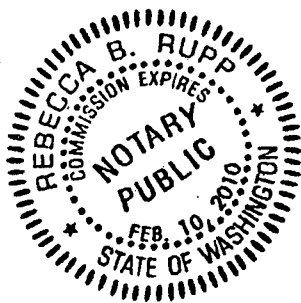
State of Washington

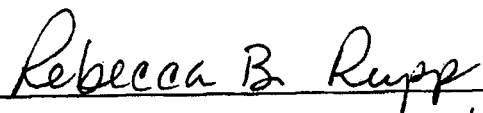
County of Benton

)
) ss.
)

On this 1st day of July, 2008,
before me, Rebecca B. Rupp (name and title of
Notary Official), personally appeared James F. White, known or identified to
me (or proved to me on the basis of satisfactory evidence) to be the person
whose name is subscribed to the within Assignment, and acknowledged to
me that he/she executed the Assignment in his/her authorized capacity, and
that by his/her signature on the Assignment, the person executed the
Assignment.

SEAL




My Commission Expires: 2/10/2010

Dated: July 24, 2008

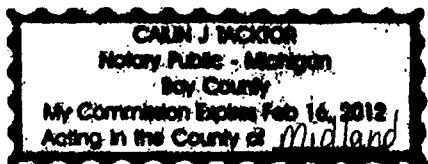
Signature: Thomas H. Peterson
Thomas H. Peterson

State of Michigan)
County of Midland) ss.

On this 24th day of July, 2008,
before me, Calvin J. Tacktor (name and title of
Notary Official), personally appeared Thomas H. Peterson, known or
identified to me (or proved to me on the basis of satisfactory evidence) to be
the person whose name is subscribed to the within Assignment, and
acknowledged to me that he/she executed the Assignment in his/her
authorized capacity, and that by his/her signature on the Assignment, the
person executed the Assignment.

SEAL

Calvin J. Tacktor
My Commission Expires: 02/10/2012



Dated: July 1, 2008

Signature: John G. Frye, Jr.
John G. Frye, Jr.

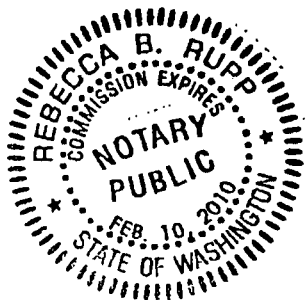
State of Washington

County of Benton

)
) ss.
)

On this 1 day of July, 2008,
before me, Rebecca B. Rupp (name and title of
Notary Official), personally appeared John G. Frye, Jr., known or identified
to me (or proved to me on the basis of satisfactory evidence) to be the
person whose name is subscribed to the within Assignment, and
acknowledged to me that he/she executed the Assignment in his/her
authorized capacity, and that by his/her signature on the Assignment, the
person executed the Assignment.

SEAL



Rebecca B. Rupp
My Commission Expires: 2/10/2010

78
31

Dated: July 7, 2008

Signature: Danielle S. Muzatko
Danielle S. Muzatko

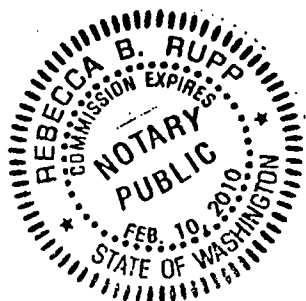
State of Washington

County of Benton

)
) ss.
)

On this 7 day of July, 2008,
before me, Rebecca B. Rupp (name and title of
Notary Official), personally appeared Danielle S. Muzatko, known or
identified to me (or proved to me on the basis of satisfactory evidence) to be
the person whose name is subscribed to the within Assignment, and
acknowledged to me that he/she executed the Assignment in his/her
authorized capacity, and that by his/her signature on the Assignment, the
person executed the Assignment.

SEAL



Rebecca B. Rupp
My Commission Expires: 2/10/2010



SPRINGFIELD, ILLINOIS

APOSTILLE

(Convention de La Haye du 5 Octobre 1961)

1. Country: United States of America
- This public document
2. has been signed by ROSE A NAGEL
3. acting in the capacity of NOTARY PUBLIC, MCHENRY COUNTY
4. bears the seal/stamp of STATE OF ILLINOIS

Certified

5. Springfield, Illinois
6. JANUARY 10, 2011
7. by the Secretary of State, State of Illinois
8. No. S011DL10119
9. Seal/Stamp:
10. Signature:



Jesse White

JESSE WHITE
SECRETARY OF STATE
STATE OF ILLINOIS

81
2/1

Certification

This is to certify that the annexed certified copy of Assignment is a true and correct copy of the original Assignment document executed by Simon R. Bare, James G. Vassilakis, and Richard R. Rosin, as inventors, in favor of UOP, LLC. The original Assignment is currently in the custody of UOP, LLC.

UOP, LLC

Dated: 01/04/2011

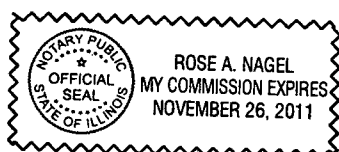
By: Frank S. Molinaro
[signature]
FRANK S. MOLINARO
[name - please print]

State of ILLINOIS)
County of McHenry) ss.

On this 4th day of January, 2011, before me, a Notary Public, personally appeared Frank S. Molinaro, who is known to me to be the person whose name is subscribed above, who executed it and acknowledged such execution to be voluntary and for the purposes set forth therein.

Rose A. Nagel
Notary Public for the State of Illinois
residing at Crystal Lake,
[City]
Commission Expires: November 26, 2011

SEAL



82

Industria y Comercio
SUPERINTENDENCIA

PLANILLA DE RADICACION - DIGITALIZACION DIARIA RELACION DE ANEXOS

Dependencia		Fecha		Recorrido:	
Tipo de Radicación		Estado	Salida	Tratado:	Convenio:
Radicador					Plantilla:

ID	Nº Radicación	Cons	Item
1			
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Item	Unidad de Conservación
1	CD
2	Disquetes
3	DVD
4	Fotos
5	Libro
6	Muestra Física
X	Otros
8	Planos
9	Periodico
10	Publicación Periódica
11	Sobre blanco tamaño carta
12	Sobre blanco tamaño oficio
13	Sobre de manila

Observaciones
Apostille 35-transparente
Foto 36-42

A 7267034

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

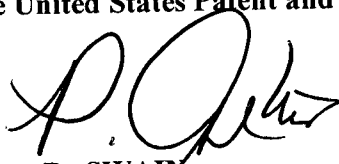
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

November 08, 2010

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE
RECORDS OF THIS OFFICE OF A DOCUMENT RECORDED ON
SEPTEMBER 24, 2010.

By Authority of the
Under Secretary of Commerce for Intellectual Property
and Director of the United States Patent and Trademark Office




P. SWAIN
Certifying Officer

85
27

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>Simon R. Bare</td><td>07/09/2008</td></tr><tr><td>James G. Vassilakis</td><td>07/15/2008</td></tr><tr><td>Richard R. Rosin</td><td>07/09/2008</td></tr></tbody></table>		Name	Execution Date	Simon R. Bare	07/09/2008	James G. Vassilakis	07/15/2008	Richard R. Rosin	07/09/2008				
Name	Execution Date												
Simon R. Bare	07/09/2008												
James G. Vassilakis	07/15/2008												
Richard R. Rosin	07/09/2008												
RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>UOP LLC</td></tr><tr><td>Street Address:</td><td>25 E. Algonquin Road</td></tr><tr><td>Internal Address:</td><td>Building A</td></tr><tr><td>City:</td><td>Des Plaines</td></tr><tr><td>State/Country:</td><td>ILLINOIS</td></tr><tr><td>Postal Code:</td><td>60017</td></tr></table>		Name:	UOP LLC	Street Address:	25 E. Algonquin Road	Internal Address:	Building A	City:	Des Plaines	State/Country:	ILLINOIS	Postal Code:	60017
Name:	UOP LLC												
Street Address:	25 E. Algonquin Road												
Internal Address:	Building A												
City:	Des Plaines												
State/Country:	ILLINOIS												
Postal Code:	60017												
PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>PCT Number:</td><td>US0940695</td></tr></tbody></table>		Property Type	Number	PCT Number:	US0940695								
Property Type	Number												
PCT Number:	US0940695												
CORRESPONDENCE DATA													
Fax Number: (509)838-3424 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: 5096244276													
Email: sschwarz@wellsstjohn.com													
Correspondent Name: Robert C. Hyta													
Address Line 1: 601 W. 1st Avenue													
Address Line 2: Suite 1300													
Address Line 4: Spokane, WASHINGTON 99201													
ATTORNEY DOCKET NUMBER:	BA4-361												
NAME OF SUBMITTER:	Robert C. Hyta												
Total Attachments: 3													

OP \$40.00 US0940695

501301115

PATENT
REEL: 025042 FRAME: 0059

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28

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source=UOP LLC Assignment#page3.tif

87 24

WHEREAS, **SIMON R. BARE**, a citizen of the United States of America, residing in Glen Ellyn, Illinois; **JAMES G. VASSILAKIS**, a citizen of the United States of America, residing in Naperville, Illinois; and **RICHARD R. ROSIN**, a citizen of the United States of America, residing in Glencoe, Illinois; and hereinafter referred to as "the inventors" have invented certain new and useful improvements in **HYDROGENOLYSIS PROCESSES AND HYDROGENOLYSIS CATALYST PREPARATION METHODS**. WHEREAS, the inventors hereby authorize and request their attorney/agent of record to have inserted on each page (where indicated below) the filing date and application number of said application when known; and WHEREAS, UOP LLC, a company organized and existing under the laws of the State of Delaware having a principal place of business at Des Plaines, Illinois, is desirous of acquiring an interest in and to said application, the inventions disclosed therein, any corresponding foreign patent application disclosing the same invention and the Letters Patents of the United States and foreign countries that may be issued thereon. NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, the inventors do hereby transfer, set over and assign unto UOP LLC, its successors and assigns, the entire right, title and interest in, to and under said application; the invention(s) covered thereby; any and all resultant patent or patents thereon; any renewals, reissues, extensions, reexaminations, substitutions, continuations, or divisions thereof, and all foreign rights thereunder including all rights to claim any priority in and to the inventions disclosed therein. Inventors hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said UOP LLC, its successors and assigns. IN WITNESS WHEREOF, the inventors have set their signatures hereunto on the date specified below.

Simon R. Bare
Simon R. Bare

7/9/08
Date

State of Illinois; County of Cook
This instrument was acknowledged
before me on this 9 day of
JULY, 2009, by
Simon R. Bare.

Wanda J. Crocker
Notary Public

(SEAL)

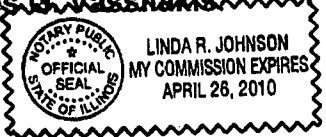
OFFICIAL SEAL
WANDA J. CROCKER
NOTARY PUBLIC - STATE OF ILLINOIS
MY COMMISSION EXPIRES: 01/29/11

88
H

ASSIGNMENT

James G. Vassilakis
James G. Vassilakis

July 15, 2008
Date

State of Illinois; County of Cook (SEAL)
This instrument was acknowledged
before me on this 15 day of
July, 2008, by
James G. Vassilakis

Linda R. Johnson
Notary Public

ASSIGNMENT

89 #1

Richard R. Rosin
Richard R. Rosin

July 9, 2008
Date

State of Illinois; County of Lake (Cook) (SEAL)
This instrument was acknowledged
before me on this 9th day of
July, 2008, by
Richard R. Rosin.
Margaret M. Oak

Notary Public

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

NIT : 800.176.089-2

-/-

91
48

Industria y Comercio
SUPERINTENDENCIA

RECIBO DE CAJA

No. 11 - 0030184

Bogotá D.C., Abril 04 de 2011 - 13:20:33

RECIBIDO DE : CASTILLO GRAU & ASOCIADOS LTDA.

NI 800.098.704

*** Soporte del Pago ***

TIPO PAGO	BANCO	CUENTA	No. PAGO	FECHA PAGO	VR. PAGO
CONSIGNACION	BANCO DE BOGOTA	062754387	378743676	04/04/2011	2.231.000.00

*** Conceptos Pagados ***

CANT.	RENTISTICO	CONCEPTO	Vr.UNDITARIO	Vr.CONCEPTO
1	50005-01-03 CAMBIO DE MODALIDAD Y MODIFICACIONES	DE MARCAS Y LEMAS COMERCIALES	118.000.00	118.000.00
				\$118.000.00
			=====	

SON: **CIENTO DIECIOCHO MIL PESOS MONEDA CORRIENTE**

Responsable: _____

Recibo de Caja Aplicado al Expediente No. _____

SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



No. 10-139617- -00006-0000

Fecha: 2011-04-04 13:39:22 Dep. 2020 DIR.NUEVASCR
Tra. 11 PATENTEIYII Eve: 378 FASENACIONALI
Act. 444 RESPUESTAREQUE Folios: 42

Sede Centro: Carrera 13 No. 27 - 00 Pisos 3,4,5 y 10 Bogotá, D.C.- Colombia

Web: www.sic.gov.co e-mai: info@sic.gov.co Conmutador: (571) 5870000 Fax: (571) 5870284 Linea: 018000-910165 Call Center: (571) 6513240

Abril 4 de 2011 - 13:20:34

2020
Bogotá D.C.,

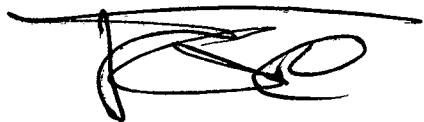
Doctor(a)
CASTILLO GRAU GERMAN
Apoderado(a) y/o Representante de
BATELLE MEMORIAL INSTITUTE
UOP LLC

REFERENCIA	Radicación No.	10 139617
	Solicitud internacional	PCT/US2009/040695
	Fecha inicio fase nacional	16/11/2010
	Trámite	11
	Evento	378
	Actuación	416
	Oficio No.	13243
	Folios	1

Teniendo en cuenta que la solicitud de privilegio de patente que se tramita bajo el expediente indicado en la referencia, reúne los requisitos de forma establecidos en la Decisión 486 de la Comisión de la Comunidad Andina, el Tratado de Cooperación en Materia de Patentes (PCT), el Reglamento y la Circular Única de la Superintendencia de Industria y Comercio, se envía el extracto de la solicitud a la Oficina de Comunicaciones para efecto de su publicación en la Gaceta de Propiedad Industrial.

23 MAYO 2011

Cúmplase
Dado en Bogotá DC,



JOSE LUIS SALAZAR LOPEZ
Director de Nuevas Creaciones (C)

mcarri