

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Adrian C. Deneys	06/08/2011
Stephen A. Manley	06/10/2011
William J. Mahoney	06/14/2011
Kevin W. Albrecht	06/27/2011
Jesse E. Cates	06/09/2011
Arsenio C. Enriquez Jr.	10/03/2011
Kyle Brent Wright	10/03/2011

RECEIVING PARTY DATA

Name:	PRAXAIR TECHNOLOGY, INC.
Street Address:	39 Old Ridgebury Road
City:	Danbury
State/Country:	CONNECTICUT
Postal Code:	06810

Name:	Kennecott Utah Copper LLC
Street Address:	3700 Daybreak Parkway
City:	South Jordan
State/Country:	UTAH
Postal Code:	84095

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13154903

CORRESPONDENCE DATA

Fax Number: (203)837-2545
Phone: (203) 837-2292
Email: Praxair_IP@Praxair.com

501687008

PATENT
REEL: 027042 FRAME: 0545

CH \$40.00 13154903

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.

Correspondent Name: Praxair, Inc.
Address Line 1: 39 Old Ridgebury Road
Address Line 4: Danbury, CONNECTICUT 06810

ATTORNEY DOCKET NUMBER:	13013-US
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NAME OF SUBMITTER:	ToniAnn Fonte
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Total Attachments: 12

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ASSIGNMENT OF INVENTION, PRIORITY RIGHTS AND RIGHTS TO APPLY FOR PATENTS

We, the undersigned,

<u>NAME</u>	<u>RESIDING AT</u>	<u>OCCUPATION</u>	<u>CITIZENSHIP</u>
Adrian C. Deneys	410 Bridgeside Circle Danville, CA 94506	Bus. Develop. Professional	ZA
Stephen A. Manley	17202 De Chirico Circle Spring, TX 77379	Construction Senior Mgr.	US
William J. Mahoney	391 Linden Avenue East Aurora, NY 14052	Assoc. Dir., R&D	US
Kevin W. Albrecht	550 Heartland Lane Brownsburg, IN 46112	Staff Engineer, II	US
Jesse E. Cates	1336 Oak Lake Lane Brownsburg, IN 46112	Engineer	US

believing that we are the original, first and true inventors of an invention for:

METHOD AND SYSTEM OF REMOVING ACCRETION BUILDUP IN A FURNACE

as described and/or claimed in our application for Letters Patent in the United States of America,

filed on June 7, 2011 (Serial No. 13/154,903, Attorney Docket No. 13013-US).

NOW, THEREFORE, for good and valuable consideration, the receipt of which is acknowledged and in fulfillment of our pre-existing obligations of assignment;

WE DO HEREBY ASSIGN AND TRANSFER our entire right, title, and interest in and to said invention and application unto

PRAXAIR TECHNOLOGY, INC.

a corporation organized and existing under the laws of the State of Delaware, United States of America, its successors and nominees, having an office at 39 Old Ridgebury Road, Danbury, Connecticut 06810, United States of America, as the Assignee, without any restrictions, reservations or limitations, the entire right, title and interest in and to the aforesaid application for Letters Patent and all patents which may be granted thereon, and all applications claiming priority thereof including all divisions, continuations, continuations-in-part, reissues and extension thereof;

INCLUDING ALL RIGHTS in and to said invention in any country of the world, including, but not limited to, all priority rights derived from the aforesaid application for Letters Patent by virtue of the

International Convention for the Protection of Industrial Property and for any and all member countries of the aforesaid International Convention;

AND FURTHER INCLUDING THE SOLE RIGHT to file such applications under the Patent Laws of any country of the world in its name and/or ours, and the sole right to have patents granted on said applications in its name and/or ours to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held by us had this assignment not been made, and to enforce said patents with our right to sue in any court of competent jurisdiction and obtain all remedies available, including but not limited to injunctions and to recover lost profits or compensatory and enhanced damages and attorneys fee for any and all infringements thereof;

AND we authorize insertion of the appropriate identification information above and agree that we will communicate to said PRAXAIR TECHNOLOGY, INC. or its representatives any facts known to us respecting said invention and testify in legal proceedings, sign all lawful papers, execute all divisional, continuing, continuation-in-part, extensions and reissue applications, make all rightful oaths and generally do everything possible to aid said PRAXAIR TECHNOLOGY, INC. its successors, assigns, or nominees, to obtain and enforce proper protection for said invention in all countries.

SIGNED AND SEALED AT Danville, CA this 8th
day of June, 2011.


ADRIAN C. DENEYS

State of California
County of Alameda ss:

This 8th day of June, 2011, before me personally came the above-named **Adrian C. Deneys** to me personally known as the individual who executed the foregoing assignment, who has acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.


Notary Public

SIGNED AND SEALED AT The Woodlands, Tx this 10th
day of June, 2011.

Stephen A. Manley
STEPHEN A. MANLEY

State of Texas)
County of Montgomery) SS:

This 10th day of June, 2011, before me personally came the
above-named Stephen A. Manley to me personally known as the individual who executed the foregoing
assignment, who has acknowledged to me that he/she executed the same of his/her own free will for the
purposes therein set forth.

Yvette Nelson
Notary Public
YVETTE NELSON
Notary Public
STATE OF TEXAS
My Comm. Exp. Jun. 06, 2015

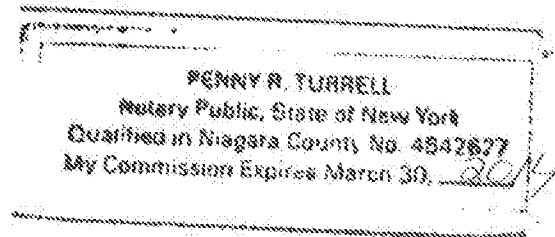
SIGNED AND SEALED AT Tonawanda this 14th
day of June, 2011.

William J. Mahoney
WILLIAM J. MAHONEY

State of New York)
County of Eric) ss:

This 14th day of June, 2011, before me personally came the
above-named **William J. Mahoney** to me personally known as the individual who executed the
foregoing assignment, who has acknowledged to me that he/she executed the same of his/her own free
will for the purposes therein set forth.

Penny R. Turrell
Notary Public

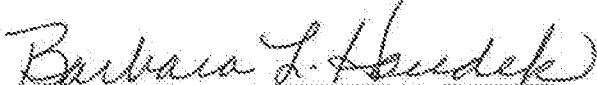


SIGNED AND SEALED AT 1500 Polco St Indpls IN this 27
day of June, 2011.

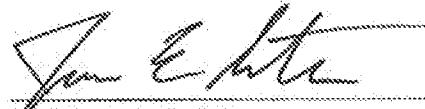

KEVIN W. ALBRECHT

State of Indiana)
County of Marion) ss:

This 27 day of June, 2011, before me personally came the
above-named Kevin W. Albrecht to me personally known as the individual who executed the foregoing
assignment, who has acknowledged to me that he/she executed the same of his/her own free will for the
purposes therein set forth.

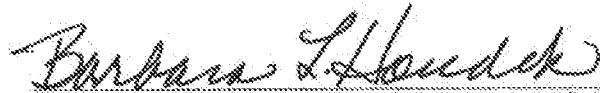

Notary Public State of Indiana
Barbara L. Houdek
Commission Exp: Feb 18, 2015

SIGNED AND SEALED AT 1500 Polco St Indianapolis IN this 9
day of JUNE, 2011.


JESSE E. CATES

State of Indiana)
County of Marion) ss:

This 9 day of June, 2011, before me personally came the
above-named Jesse E. Cates to me personally known as the individual who executed the foregoing
assignment, who has acknowledged to me that he/she executed the same of his/her own free will for the
purposes therein set forth.


Notary Public State of Indiana
Commission Exp: Feb 18, 2015

PATENT

For: ☒ U.S. and/or ☒ Foreign-Rights
For: ☒ U.S. Application-or ☐ U.S. Provisional Application
For: ☒ U.S. Patent For: ☐ PCT Application
By: ☒ Inventor or ☐ Present-Owner

ASSIGNMENT OF INVENTION (SINGLE INVENTOR)

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Arsenio C. Enriquez, Jr.

hereby sell, assign, and transfer to

ASSIGNEE:

Kennecott Utah Copper LLC

Inventor(s) or person(s) or entity(ies) who own the invention

4700 Daybreak Parkway
South Jordan, Utah 84095

Address

and the successors, assigns, and legal representatives of the ASSIGNEE
(complete one of the following)

- ☒ the entire right, title, and interest
- ☐ an undivided _____ percent (____%) interest

for the United States and its territorial possessions,

(check the following box, if foreign rights are also to be assigned)

- ☒ and in all foreign countries,

including all rights to claim priority, in and to the invention, including any and all improvements that are disclosed in the invention, entitled:

Method and System of Removing Accretion Buildup in a Furnace

and which is found in (37 C.F.R. § 3.21)

- (a) ☐ U.S. patent application executed on even date herewith
- (b) ☐ U.S. patent application executed on _____

PATENT

- (c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention
☐ Express mail label no.:
Mailed: _____
- ☐ To comply with 37 C.F.R. § 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
- (d) ☒ U.S. application no. 13/154,903 filed June 7, 2011, which claims priority to provisional application number 61/352,143 filed June 7, 2010.
- (e) ☐ International application no. _____ PCT/ filed on _____
- (f) ☐ U.S. patent no. _____ issued _____
- ☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(check (g), if foreign application(s) is (are) also being assigned)

- (g) ☒ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, any and all Letters Patent to be obtained for said invention by the above application, or any continuation, division, renewal, or substitute thereof, and, as to any and all Letters Patent, to any and all reissues or re-examinations thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

PATENT

IN WITNESS WHEREOF, we have hereunto set hand and seal on the dates indicated below.

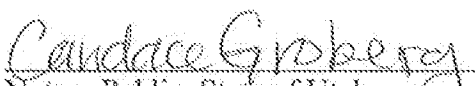
WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: October 3, 2011

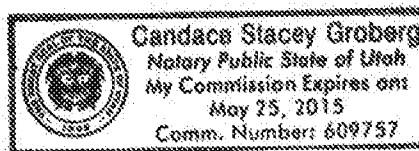


Arsenio C. Enriquez Jr.

Subscribed and sworn to before me
this 3 day of Oct, 2011.



Notary Public, State of Utah
My commission expires: May 25, 2015



PATENT

For: ☒ U.S. and/or ☒ Foreign-Rights
For: ☒ U.S. Application-or ☐ U.S. Provisional Application
For: ☒ U.S. Patent For: ☐ PCT Application
By: ☒ Inventor or ☐ Present-Owner

ASSIGNMENT OF INVENTION (SINGLE INVENTOR)

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Kyle Brent Wright

hereby sell, assign, and transfer to

ASSIGNEE:

Kennecott Utah Copper LLC
Inventor(s) or person(s) or entity(ies) who own the invention

4700 Daybreak Parkway
South Jordan, Utah 84095
Address

and the successors, assigns, and legal representatives of the ASSIGNEE
(complete one of the following)

☒ the entire right, title, and interest

☐ an undivided _____ percent (____%) interest

for the United States and its territorial possessions,

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries,

including all rights to claim priority, in and to the invention, including any and all improvements that are disclosed in the invention, entitled:

Method and System of Removing Accretion Buildup in a Furnace

and which is found in (37 C.F.R. § 3.21)

- (a) ☐ U.S. patent application executed on even date herewith
(b) ☐ U.S. patent application executed on _____

PATENT

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☐ Express mail label no.:

Mailed: _____

- ☐ To comply with 37 C.F.R. § 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

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- (e) ☐ International application no. _____ PCT/ filed on _____

- (f) ☐ U.S. patent no. _____ issued _____

- ☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(check (g), if foreign application(s) is (are) also being assigned)

- (g) ☒ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, any and all Letters Patent to be obtained for said invention by the above application, or any continuation, division, renewal, or substitute thereof, and, as to any and all Letters Patent, to any and all reissues or re-examinations thereof.

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PATENT

IN WITNESS WHEREOF, we have hereunto set hand and seal on the dates indicated below.

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date: 10-3-11

Kyle Brent Wright
Kyle Brent Wright

Subscribed and sworn to before me
this 3rd day of October, 2011.

Carol A. Wright
Notary Public, State of Utah
My commission expires: 7-8-12

