

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| Name | | Execution Date |
| Kuang-Tsai Wu | | 11/19/2007 |
| Hisashi Kobayashi | | 11/27/2007 |
| RECEIVING PARTY DATA | | |
| Name: | Praxair Technology, Inc. | |
| Street Address: | 39 Old Ridgebury Road | |
| City: | Danbury | |
| State/Country: | CONNECTICUT | |
| Postal Code: | 06810 | |
| PROPERTY NUMBERS Total: 1 | | |
| Property Type | Number | |
| Application Number: | 11938829 | |
| CORRESPONDENCE DATA | | |
| Fax Number: | (203)837-2515 | |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | |
| Phone: | 2038372175 | |
| Email: | Janie_Murphy@Praxair.com | |
| Correspondent Name: | Praxair, Inc. | |
| Address Line 1: | 39 Old Ridgebury Road | |
| Address Line 4: | Danbury, CONNECTICUT 06810 | |
| ATTORNEY DOCKET NUMBER: | 21552 | |
| NAME OF SUBMITTER: | Janie Murphy | |
| Total Attachments: 3 source=21522_ASSIGN_11-28-07#page1.tif source=21522_ASSIGN_11-28-07#page2.tif source=21522_ASSIGN_11-28-07#page3.tif | | |

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PATENT
REEL: 020168 FRAME: 0171

JOINT

**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> |
|--------------------|---|-------------------|--------------------|
| Kuang-Tsai Wu | 193-8 Palmdale Drive Williamsville, NY 14221 | Engineer | USA |
| Hishashi Kobayashi | 170 Barger Street Putnam Valley, NY 10579 | Engineer | USA |

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

REDUCING CROWN CORROSION IN A GLASSMELTING FURNACE

as described and/or claimed in our application for Letters Patent in the United States of America,
filed on November 13, 2007 (Serial No. 11/938,829, Attorney Docket No. 21552).

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 Tonawanda this 19th
day of November, 2007.

State New York)
County of Erie) ss:

Kuang-Tsai Wu
KUANG-TSAI WU

This 19th day of November, 2007, before me personally came the above-named KUANG-TSAI WU 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

PENNY R. TURRELL
Notary Public, State of New York
Qualified in Niagara County No. 4842627
My Commission Expires March 30, 2010

SIGNED AND SEALED AT Danbury this 27th
day of November, 2007.

State of Connecticut
County of Fairfield) ss:

HISASHI KOBAYASHI
HISASHI KOBAYASHI

This 27th day of November, 2007, before me personally came the
above-named HISASHI KOBAYASHI 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.

Helen H. Duncan
Notary Public

HELEN H. DUNCAN
NOTARY PUBLIC
MY COMMISSION EXPIRES JULY 31, 2012