

RE  
2.904

02-19-2004



102671828

Attorney Docket No.: 1094-48

TO THE HONORABLE COMMISSIONER  
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1. Name of conveying party(ies):

- (1) Xingtao Gao
- (2) Johannes Hendrik Koegler
- (3) Lawrence L. Murrell
- (4) Philip J. Angevine

Additional name(s) of conveying party(ies) attached?  
 yes  no

2. Name and address of receiving party(ies):

Name: **ABB Lummus Global Inc.**

Street Address: 1515 Broad Street  
Bloomfield, New Jersey 07003  
USA

Additional names and addresses attached?  yes  no

31355 U.S. PTO  
10774774



3. Nature of Conveyance

- Assignment
- Security Agreement
- Other
- Merger
- Change of Name

Execution Date: (3) 2/1/04 & (1,2,4) 2/3/04

4. Application number(s) or patent number(s):

10774774

If this document is being filed together with a new application, the execution date of the application is 2/9/04

A. Patent Application No.(s)

B. Patent No.(s):

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Adrian T. Calderone, Esq.  
Internal Address: Dilworth & Barrese, LLP  
Street Address: 333 Earle Ovington Boulevard  
City: Uniondale State: NY ZIP: 11553

6. Total number of applications and patents involved:  
[1]

7. Total fee (37 C.F.R. 3.41) ..... \$ 40.00  
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8. Deposit account number: 04-1121  
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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*

Adrian T. Calderone, Esq.      *Adrian Calderone*      9 February 2004  
Name of Person Signing      Signature      Date  
Reg. No. 31,746      Total number of pages including cover sheet, attachments and document [ 6 ]

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03 FC:8021

40.00 OP

For:  U.S. and/or  Foreign Rights  
For:  U.S. Application or  U.S. Patent  
By:  Inventor(s) or  Present Owner

**ASSIGNMENT OF INVENTION**

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(S): Xingtao Gao, Johannes Hendrik  
(inventor(s) or Koegler, Lawrence L. Murrell,  
person(s) or entity(ies) and Philip J. Angevine  
who own the invention)

*(If assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO add the following)*

Recorded on \_\_\_\_\_  
Reel \_\_\_\_\_  
Frame \_\_\_\_\_

hereby sells, assigns and transfers to

ASSIGNEE: ABB Lummus Global Inc.  
1515 Broad Street  
Bloomfield, New Jersey 07003  
USA

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)
- an in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:

HYDROCARBON CONVERSION USING NANOCRYSTALLINE ZEOLITE Y  
(check and complete (a), (b), (c) or (d))

and which is described in an application for a United States Patent, the specification of which is either attached hereto or otherwise accompanies the Assignment or indicates an Attorney Docket No. 1094-48 or is found in

- (a)  U.S. patent application executed on even date herewith
- (b)  U.S. patent application executed on \_\_\_\_\_
- (c)  U.S. application serial no. 0 / \_\_\_\_\_ filed on \_\_\_\_\_
- (d)  U.S. patent no. \_\_\_\_\_ issued \_\_\_\_\_  
 A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (e) if foreign application(s) is also being assigned)

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

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any re-issue or re-examination 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;

(Assignment of Invention [16-3] - page 2 of 4)

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.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal  
this \_\_\_\_\_ (Date of signing).

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

Xingtao Gao  
Xingtao Gao

2/3/04  
Dated

Johannes Hendrik Koegler  
Johannes Hendrik Koegler

2/3/04  
Dated

Lawrence L. Murrell  
Lawrence L. Murrell

          
Dated

Philip J. Angevine  
Philip J. Angevine

2/3/04  
Dated

If ASSIGNOR is a legal entity complete the following information

          
Type or print the name of the above person  
authorized to sign on behalf of ASSIGNOR

          
Title

**NOTE:** No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution 35 U.S.C. 261. Use next page if notarization is desired.

Notarization or Legalization Page Added.

(Assignment of Invention [16-3] - page 3 of 4)

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.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal  
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\_\_\_\_\_  
Xingtao Gao

\_\_\_\_\_  
Dated

\_\_\_\_\_  
Johannes Hendrik Koegler

\_\_\_\_\_  
Dated

*Lawrence Murrell*  
\_\_\_\_\_  
Lawrence L. Murrell

*2/1/04*  
\_\_\_\_\_  
Dated

\_\_\_\_\_  
Philip J. Angevine

\_\_\_\_\_  
Dated

If ASSIGNOR is a legal entity complete the following information

\_\_\_\_\_  
Type or print the name of the above person  
authorized to sign on behalf of ASSIGNOR

\_\_\_\_\_  
Title

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Notarization or Legalization Page Added.

(Assignment of Invention [16-3] - page 3 of 4)

STATE OF

SS

COUNTY OF

On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared \_\_\_\_\_ to me personally known and known to me to be the person who signed the foregoing assignment and acknowledged the signing of same as his free act and deed.

\_\_\_\_\_  
Notary Public

STATE OF

SS

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On this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me personally appeared \_\_\_\_\_ to me personally known and known to me to be the person who signed the foregoing assignment and acknowledged the signing of same as his free act and deed.

\_\_\_\_\_  
Notary Public

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\_\_\_\_\_  
Notary Public