FORM PTO-1595	-26-2001 U.S. DEPARTMENT OF COMM			
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RE IIII				
OMB No. 0651-0011 (exp. 4/94)	1760965 (.) 701			
To the Please record the attac	ched original documents or copy thereof.			
Name of conveying party(ies):	2. Name and address of receiving party(ies):			
Joakim A. Carlborg Yun-Feng Chang	Name: ABB Lummus Global, Inc.			
Lawrence L. Murrell				
Robert E. Trubac Rudolf A. Overbeek	Internal Address:			
Chuen Y. Yeh	Street Address: 1515 Broad Street			
Lothar Schuh				
Document ID No. 101655417				
Additional name(s) of conveying party(ies) attached:	City: Bloomfield State: NJ Zip: 07003			
☐ Yes 図 No	Additional name(s) & address(es) attached: ☐ Yes ☒ No			
3. Nature of conveyance:	 			
·				
☑ Assignment ☐ Merger ☐ Security/Agreement ☐ Change of Name				
☐ Other				
Execution Date: November 6, 2000				
4. Application number(s):				
If this document is being filed together with a new application, A. Patent Application No.(s)	the execution date of the application is: B. Patent No.(s)			
09/687,976				
Additional nur 5. Name and address of party to whom correspondence	nbers attached? ☐ Yes ☒ No 6. Total number of applications and patents involved: 1			
concerning document should be mailed:	o. Total number of applications and patents involved			
Name: William Squire, Esq.	7. Total fee (37 CFR 3.41)\$40.00			
Internal Address: Carella, Byme, Bain, Gilfillan, Cecchi,	□ Enclosed			
Stewart & Olstein	 Additional fees, if any, authorized to be charged to deposit account 			
Street Address: 6 Becker Farm Road	8. Deposit account number: 03-0678			
City: Roseland State: New Jersey Zip: 07068	(Attach duplicate copy of this page if paying by deposit account)			
DO N	OT USE THIS SPACE			
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.				
William Squire	June 15, 2001			
Name of Person Signing Signature	Date			
Total number of pages including cover sheet, attachments, and document: 7				

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

Docket No. 415000-551 #97838 v2

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersignedloakim A. Carlborg, Yun-Feng Chang, Lawrence L. Murrell, Robert E. Trubac, Rudolf A. Overbeek, Verena R. Schmidt, Chuen Y. Yeh and Lothar Schuh hereby sells, assigns and transfers to ABB Lummus Global, Inc. ("Assignee"), having a place of business at 1515 Broad Street, Bloomfield, New Jersey 07003, a Delaware corporation, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as: United States Application Serial No09/687,976 filed October 13, 2000 and/or executed on even date herewith and is entitled:

CONVERSION OF NITROGEN OXIDES IN THE PRESENCE OF A CATALYST SUPPORTED ON A MESH-LIKE STRUCTURE

and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original, re-examined and reissued patents and extensions thereof which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Improvements").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said Improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such Improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said Improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said Improvements and for vesting title to said Improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants power to John N. Bain (Reg. No. 18,651); John G. Gilfillan, III (Reg. No. 22,746); Elliot M. Olstein (Reg. No. 24,025); Raymond J. Lillie (Reg. No. 31,778); William Squire (Reg. No. 25,378); Alan J. Grant (Reg. No. 33,389); Francis C. Hand (Reg. No. 22,280); and G. Glennon Troublefield (Reg. No. 39,050) to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document. Address correspondence and telephone calls to William Squire, Esq. c/o Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein, 6 Becker Farm Road, Roseland, New Jersey 07068.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature:	Joakim A. Carlbo	bicital		Date: NOV.	13 ,2000
		org J	· · · · · · · · · · · · · · · · · · ·		
STATE OF VAXSE	. COUNTY OF	SS.:	Sweberio		
Before me this person(s) who are described own free will for the purpose		2000 personally principle of the control of the con	y appeared the abovement and acknowled	e named individua dged to me that the	l(s)to me known to be the y executed the same of their
Inventor's Signature:	Yun-Feng Chang			Date:	, 2000
STATE OF	, COUNTY OF	SS.:			
Before me this person(s) who are described own free will for the purpose	day of in and who executed the foregotherein expressed.	, 2000 personal ping assignment instru	lly appeaed the aboviment and acknowle	e named individual dged to me that the	l(s), to me known to be the ey executed the same of their
	Notar	y Public			

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Joakim A. Carlborg, Yun-Feng Chang, Lawrence L. Murrell, Robert E. Trubac, Rudolf A. Overbeek, Verena R. Schmidt, Chuen Y. Yeh and Lothar Schuh hereby sells, assigns and transfers to ABB Lummus Global, Inc. ("Assignee"), having a place of business at 1515 Broad Street, Bloomfield, New Jersey 07003, a Delaware corporation, its successors, assigns and legal representatives, his entire right, title and interest for the United States and all other countries, in and to the improvements(s) known as: United States Application Serial No. 09/687,976 filed October 13, 2000 and/or executed on even date herewith and is entitled:

CONVERSION OF NITROGEN OXIDES IN THE PRESENCE OF A CATALYST SUPPORTED ON A MESH-LIKE STRUCTURE

and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all other countries on any of said improvements, and in and to all original, re-examined and reissued patents and extensions thereof which have been or shall be issued in the United States and all other countries on said improvements (hereinafter collectively, the "Improvements").

The undersigned further agrees that said Assignee may apply for and receive Letters Patent for said Improvements in its own name; and, when requested, without charge to but at the expense of Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue and all other patent applications on all such Improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives all facts known to the undersigned relating to said Improvements and the history thereof; and do everything possible which said Assignee, its successors, assigns or representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said Improvements and for vesting title to said Improvements and all applications for patent and all patents on said improvements in Assignee, its successors, assigns and representatives.

The undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

The undersigned hereby grants power to John N. Bain (Reg. No. 18,651); John G. Gilfillan, III (Reg. No. 22,746); Elliot M. Olstein (Reg. No. 24,025); Raymond J. Lillie (Reg. No. 31,778); William Squire (Reg. No. 25,378); Alan J. Grant (Reg. No. 33,389); Francis C. Hand (Reg. No. 22,280); and G. Glennon Troublefield (Reg. No. 39,050) to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document. Address correspondence and telephone calls to William Squire, Esq. c/o Carella, Byrne, Bain, Gilfillan, Cecchi, Stewart & Olstein, 6 Becker Farm Road, Roseland, New Jersey 07068.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

nventor's Signature:			Date:	<u>, 2000</u>
	Joakim A. Carlborg	3		
STATE OF	. COUNTY OF	SS.:		
Before me this person(s) who are described in own free will for the purpose the second	day of and who executed the foregoing therein expressed.		ared the above named individund acknowledged to me that the	
·	Notary	Public		
nventor's Signature:		-	Date: Now	enlagres 2000
	Yuk-Feng Chang			
STATE OF NEW JERS	SEY, COUNTY OF ESSE	SS.:		
Before me this 61	day of NOVEMBERS and who executed the foregoing herein expressed.	, 2000 personally app g assignment instrument a	nd acknowledged to me that th	ual(s), to me known to be the ey executed the same of their
	\mathcal{Q}_{n}	me lound	n war	
	Notary	Public		YME ANN INNES

PATENT REEL: 011916 FRAME: 0605

JAYME ANN INNES
NOTARY PUBLIC OF NEW JERSEY
MY COMMISSION EXPIRES JUNE 19, 2001

Inventor's Signature:	Mundle	11/6/
Inventor's Signature: Lawrence L	Murrell	Date:
STATE OF NEW JERZSEY, COUNTY OF	ج العالم الع	
Before me this A day of NOVEM, person(s) who are described in and who executed the foown free will for the purpose therein expressed.	おとて , 2000 personally appeared the aboregoing assignment instrument and acknowled	we named individual(s), to me known to be the ged to me that they executed the same of their
Ñ	Jaymo Clim Anus	JAYME ANN INNES NOTARY PUBLIC OF NEW JERSEY MY COMMISSION EXPIRES JUNE 19, 2001
Inventor's Signature: Robert E. Tr	rubac	Date: Nov 6 , 2000
STATE OF NEW JERSEY, COUNTY OF	£225× ss.:	
Before me this 6 /2 day of 1000 £ /3 person(s) who are described in and who executed the for own free will for the purpose therein expressed.	n δ ξ ι ζ , 2000 personally appeared the above regoing assignment instrument and acknowled	ve named individual(s), to me known to be the ged to me that they executed the same of their
N	lotary Problic	JAYME ANN INNES NOTARY PUBLIC OF NEW JERSEY MY COMMISSION EXPIRES JUNE 19, 2001
Inventor's Signature:		Date: Arvenber 6, 2000
Rudolf A. O	verbeek	Date: 1/1800m/000 , 2000
STATE OF NEW JERSEY, COUNTY OF		
Before me this GTA day of NOVEN person(s) who are described in and who executed the for own free will for the purpose therein expressed.	PREFT, 2000 personally appeared the above regoing assignment instrument and acknowled	re named individual(s), to me known to be the ged to me that they executed the same of their
Ñ	otary Public	JAYME ANN INNES NOTARY PUBLIC OF NEW JERSEY MY COMMISSION EXPIRES JUNE 19, 2001
Inventor's Signature:	show (dt	Date:, 2000
STATE OF , COUNTY OF	SS.:	
Before me this day of person(s) who are described in and who executed the for own free will for the purpose therein expressed.	, 2000 personally appeared the above regoing assignment instrument and acknowled	re named individual(s), to me known to be the ged to me that they executed the same of their
N	otary Public	
	- Tolk	

Inventor's Signature:	Chuen Chuen Y. Ye		L Dat	e: 11/6	, 2000
STATE OF NEW J	ERSEY, COUNTY OF	<i>E ≤</i> SE× ss.:			
Before me this person(s) who are describe own free will for the purpo	day of NOUEN d in and who executed the fose therein expressed.	regoing assignment instru	ment and acknowledged t	o me that they exe JAY NOTARY P	, to me known to be the ecuted the same of their ME ANN INNES PUBLIC OF NEW JERSEY SION EXPIRES JUNE 19, 200
Inventor's Signature:	Lothar Schul	h	Dat	e:	, 2000
STATE OF	, COUNTY OF	SS.:			
Before me this person(s) who are describe own free will for the purpo	day of d in and who executed the for se therein expressed.		lly appeared the above nat ment and acknowledged to		
	N	otary Public			

CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI, STEWART & OLSTEIN 6 Becker Farm Road - Roseland, NJ 07068 - (973) 994-1700

Docket No. 415000-551 #80525 v2

Inventor's Signature:			_ Date:	,2000
<u> </u>	Chuen Y. Yeh			
STATE OF	, COUNTY OF	SS.:		
Before me this person(s) who are described in own free will for the purpose the			red the above named individu acknowledged to me that the	
Inventor's Signature:	falled	Public	Date: <u></u>	<u> 1. , 2000</u>
_	Lothar Schuh			
STATE OF	, COUNTY OF	SS.:		·
Before me this person(s) who are described in own free will for the purpose the			red the above named individu acknowledged to me that the	
	Notary	/ Public		

CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI, STEWART & OLSTEIN 6 Becker Farm Road - Roseland, NJ 07068 - (973) 994-1700

Docket No. 415000-551 #80525 v2

Notariat 6 Heidelberg

Kurfürstenanlage 23 69115 Heidelberg

Telefon (06221) 5914 -90 / -91

FAX (06221) 59 22 44

Kosten gemäß §§ 38, 145,

45, 32 KostO auf Kopie erhoben.

Heidelberg, den 16.11.2000

Der Kostenbeamte: i. A. \$aya

Unterschriftsbeglaubigung

Vorstehende, eigenhändig vor mir vollzogene Unterschrift des persönlich bekannten

Herr Dr. Lothar Herbert Schuh, geb. am 15.07.1956, wohnh. Handschuhsheimer Str. 13, 68723 Plankstadt

handelnd für die Firma Asea Brown Boveri AG Forschungszentrum, Speyerer Str. 4, 69115 Heidelberg,

wird hiermit als echt öffentlich beglaubigt.

RECORDED: 03/15/2001

Heidelberg, den 16.11.2000

Notariat 6, Heidelberg

Schmenger, Notar

