RECORDATION FOR

11-18-2003



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Please record the attached original document.

1. Name of conveying party(ies):

> Robert J. Gartside Marvin I. Greene

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

> Name: ABB Lummus Global Inc. Street Address: 1515 Broad Street

City, State, ZIP: Bloomfield, NJ 07003-3096

Country: United States of America

State of Incorporation: Delaware

- 3. Nature of Conveyance: Assignment Execution Date: November 7, 2003
- 4. Application No. 10/620,186 filed July 15, 2003.
- Name and address of party to whom correspondence concerning document should be 5. mailed:

Richard H. Berneike, Esq. Alix, Yale & Ristas, LLP 750 Main Street Hartford, CT 06103-2721

- 6. Total number of applications involved: 1
- Total fee enclosed: \$40.00. If this amount is incorrect, please charge or credit the 7. difference to Deposit Account No. 16-2563.
- 8. Total number of pages including cover sheet, check and document: 5

To the best of my knowledge and belief, the foregoing information is true and correct.

Date: November 12, 2003

Aftorney's Docket No.: ABBLUM/261/US

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PATENT REEL: 014691 FRAME: 0176

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Attorney Docket ABBLUM/261/US

ASSIGNMENT

WHEREAS, we, Robert J. Gartside and Marvin I. Greene, respectively residing at 167 Colonial Road, Summit, New Jersey 07901 and 277 Prospect Avenue, Hackensack, New Jersey 07601 have invented new and useful improvements in

Processing C₄ Olefin Streams for the Maximum Production of Propylene

for which we have made application for Letters Patent of the United States, which application was filed on July 15, 2003 under Serial No. 10/620,186; and

WHEREAS, ABB Lummus Global Inc., a Delaware corporation, having a place of business at 1515 Broad Street, Bloomfield, NJ 07003-3096, is desirous of acquiring the entire right, title and interest in and to said improvements and any Letters Patent which may be granted thereon;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for and in consideration of the sum of One (1) Dollar to us in hand paid and other good and valuable consideration, receipt of which is hereby acknowledged, we, the said Robert J. Gartside and Marvin I. Greene, sell, assign and transfer to ABB Lummus Global Inc., its successors and assigns (hereinafter called "Assignee"), the entire right, title and interest in and to said improvements and in and to any Letters Patent which may be obtained thereon in the United States and in all countries foreign thereto, together with said application and all divisional, continuing, substitute, renewal, reissue, and other applications for Letters Patent which have been or may be filed on said improvements in the United States or any other country; the same to be held and enjoyed by the Assignee for its and their sole use and behoof; and we do hereby further assign to the Assignee the right to file applications for patent in all countries on said improvements and all rights of priority resulting from any application for Letters Patent filed on said improvements.

We hereby authorize and request the Commissioner of Patents and Trademarks to issue all Letters Patent of the United States on said improvements to the Assignee.

We further covenant and agree that when requested by the Assignee, and without further consideration, but at the cost and expense of the Assignee, we will, for any and all countries, execute and deliver all applications for patent on said improvements, execute all lawful oaths and other papers, supply to the Assignee all facts and evidence known to us relating to said improvements and the history and development thereof, testify in all interferences, suits, and other legal proceedings, and generally do everything rightful which the Assignee shall consider desirable for aiding in securing, maintaining, and enforcing proper patent protection for said improvements and for vesting the title to said improvements in the Assignee.

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We further covenant that we have the lawful right to assign the interest in said improvements in the manner and form as herein expressed and that the interests herein conveyed are free from prior assignment, grant, mortgage, license, or other encumbrance whatsoever.

IN WITNESS WHEREOF, I have hereunto set my hand and seal as of and for this day of Nov , 2003.
Robert J. Gartside
State of New Volcey
State of New Tersey)) ss: County of ESSEX)
On this $\frac{7\pi}{N}$ day of $\frac{NONEMBER}{N}$, 2003 , before me personally appeared Robert J. Gartside, who acknowledged that he signed the within instrument and that he executed the same as his own free act and deed.
Date Commission Expires: June 19, 2006 Notary Public JAYME ANN INNES NOTARY PUBLIC OF NEW JERSEY MY COMMISSION EXPIRES JUNE 19, 2006
IN WITNESS WHEREOF, I have hereunto set my hand and seal as of and for this day of November 2003. Marvin I. Greene
State of New Jewisey)) ss: County of Essex)
County of Essex)
On this The day of November, 2003, before me personally appeared Marvin I. Greene, who acknowledged that he signed the within instrument and that he executed the same as his own free act and deed.

JAYME ANN INNES **NOTARY PUBLIC OF NEW JERSEY** MY COMMISSION EXPIRES JUNE 19, 2006

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Date Commission Expires: June 19, 2006

RECORDED: 11/14/2003

PATENT REEL: 014691 FRAME: 0178