FORM PTO-1619A Expires 08/30/99 OMB 0651-0027

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U.S. Department of Commerce Patent and Trademark Office PATENT



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Name (line 1) William J. Sartain	11/16/1999				
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Name William A. Heidrich					
Address (line 1) Equistar Chemicals LP					
Address (line 2) 11530 Northlake Drive					
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PATENT

REEL: 010674 FRAME: 0297

FORM PTO-1619B Expires 06/30/99 OMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT
Correspondent Name and Address	Area Code and Telephone Number	(516) 742-4343
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Address (line 1) Scully, Scott, Murphy & Presser		
Address (line 2) 400 Garden City Plaza		
Address (line 3) Garden City, New York 11530-0	299	
Address (line 4)		
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Application Number(s) or Patent Nu	umber(s) Mark if ad	dditional numbers attached
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Patent Application Number(s)	Patent	Number(s)
		Month Day Year
If this document is being filed together with a new Parsigned by the first named executing inventor.	tent Application, enter the date the patent application	was 11/16/1999
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Enter PCT application number only if a U.S. Application Numb has not been assigned.		PCT
Number of Properties Enter the total	tal number of properties involved.	1
Fee Amount Fee Amou	int for Properties Listed (37 CFR 3.41): \$	40.00
•	closed Deposit Account	
Deposit Account (Enter for payment by deposit account or if a	additional fees can be charged to the account.)	
	Deposit Account Number: #	17-0032
Statement and Signature	Authorization to charge additional fees:	Yes V No
To the best of my knowledge and	belief, the foregoing information is true a e original document. Charges to deposit	
William A. Heidrich	William affectif	11/17/1999
Name of Person Signing	Signature '	Date

PATENT REEL: 010674 FRAME: 0298

Assignment of Rights i (Sole inventor; single		
Inventor	Residence of Inventor	
WILLIAM J. SARTAIN	7934 BLACKHAWK COURT WEST CHESTER, OHIO 45069	
Assignee	Residence or Principal Place of Business of Assignee	
EQUISTAR CHEMICALS, LP	1221 McKinney Street Suite 700 Houston, Texas 77010	

Whereas, I, the above-identified Inventor, have invented certain new and useful improvements in:

ETHYLENE POLYMERIZATION CATALYST AND CATALYST SYSTEM

(hereinafter referred to as "Invention") for which I am making application for Letters Patent in the United States of America;

And, whereas I desire to assign a 100% undivided interest in said Invention, said application disclosing the Invention and any Letters Patent which may be granted therefor to the above-identified Assignee, and whereas said Assignee is desirous of acquiring the entire right, title and interest in the same;

Now, this indenture witnesseth, that for the sum of ONE dollars

(\$ 1.00), and other good and valuable consideration, the receipt whereof is hereby acknowledged;

I hereby assign, sell and transfer a 100% undivided interest in said invention, said application, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;

And I hereby authorize and request the Commissioner of Patents and Trademarks to issue said United States Letters Patent to said Assignee, as assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary and lawful future documents, including assignments in favor of Assignee, or its designees as Assignee or its Assignees may from time-to-time present to me in order to perfect title in said Invention, modifications, and improvements in said Invention, applications and Letters Patent of the United States and countries foreign thereto;

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Assignment of Rights in Invention (Sole inventor; single assignee)		Docket No. 12664		
Inventor	Resid	Residence of Inventor		
WILLIAM J. SARTAIN	7934 BLACKHAWK C WEST CHESTER, OH			
Assignee	Residence or Principa	Residence or Principal Place of Business of Assignee		
EQUISTAR CHEMICALS, LP	1221 McKinney Street Suite 700 Houston, Texas 77010			

And I further agree to sign and properly execute such necessary and lawful papers for application for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee thereof shall hereafter require and prepare at its own expense.

Executed this 16th day of November, in the year 1999 at Cincinnati, Ohio; USA

State of OHIO

County of HAMILTON

Before me personally appeared WILLIAM J. SARTAIN
who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this 1/4 day of November, in the year 1999.

Margaret E. Sailey (Notary Public)

MARGARET E. BAILEY Notary Public, State of Ohio My Commission Expires August 30, 2001 Recorded in Clemont County

William Sartais

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