

06-18-1998

HEET

U.S. DEPARTMENT OF COMMERCE



PATENT AND TRADEMARK OFFICE

100742236

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

Lyondell Petrochemicals Company

Additional name(s) of conveying party(ies) attached? ☐ Yes ☐ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: May 4, 1998

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

Name: Equistar Chemicals, LP

Internal Address:

Street Address: 1221 McKinney, Suite 1500City: Houston State: TX Zip: 77002Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

See attached Addendum "A"

B. Patent No.(s)

Additional numbers attached? ☒ Yes ☐ No

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

Name: Attn: IPT Docket Manager,
34th Floor

Internal Address:

Liddell Sapp Zivley Hill & LaBoon LLP

Street Address:

600 Travis Suite 3400City: Houston State: TX Zip: 77002-3095

6. Total number of applications and patents involved:

12

7. Total fee (37 C.F.R. 3.41)\$480

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number:

12-1322 (016199-0000)

(DO NOT attach duplicate copy of this page even if paying by deposit account)

DO NOT 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.

JOHN WILSON JONES

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments and document:

8

06/17/1998 TTON11 00000270 00579706

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ADDENDUM "A"

Patent Application
No.

08/579,786
08/643,102
08/654,435
08/358,492
08/373,814
08/423,232
08/803,003
08/651,190
08/643,102
08/872,659
08/872,213
08/951,041

PATENT
REEL: 9242 FRAME: 0419

ASSIGNMENT

WHEREAS, LYONDELL PETROCHEMICAL COMPANY (the "ASSIGNOR") is a corporation duly organized and existing under the laws of Delaware and has a principal place of business at 1221 McKinney Street, Houston, Texas 77010;

WHEREAS, the ASSIGNOR owns certain rights in and to certain patents, utility models, and patent applications (whether provisional or otherwise), for the United States of America and other countries foreign thereto;

WHEREAS, EQUISTAR CHEMICALS, LP is a limited partnership organized under the laws of the state of Delaware, having its principal place of business at 1221 McKinney Street, Houston, Texas 77010 (hereinafter, "ASSIGNEE");

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, the ASSIGNOR has agreed to assign and transfer and does hereby assign and transfer unto ASSIGNEE, its successors and assigns, all of the right, title and interest which ASSIGNOR owns in and to the patents, utility models, and patent applications (whether provisional or otherwise), listed in the **O&P Patent Schedule** (attached hereto and made a part hereof) and in and to any division, continuation or continuation-in-part, of said applications, and in and to any and all Letters Patent and reissues and extensions thereof, of the United States of America and all countries foreign thereto (including the right to apply for Letters Patent in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties or otherwise), which have been or may be granted on any of the foregoing to be held and enjoyed as fully and exclusively as they would have been by ASSIGNOR had this assignment and transfer not been made;

The ASSIGNOR does further agree to execute and deliver without further consideration any further applications, assignments and documents, and to perform such other acts as may be deemed necessary by said ASSIGNEE, its successors, assigns, and nominees, fully to secure its interest as aforesaid and to obtain or maintain Letters Patent in any and all countries;

And the undersigned do hereby authorize and request the U.S. Commissioner of Patents and Trademarks and the patent offices of all other countries of the world to issue any and all Letters Patent which may be granted upon any of the said applications, to the said ASSIGNEE, as the assignee of the entire interest herein.

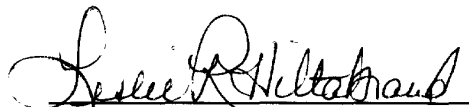
In witness whereof, the undersigned has hereunto executed this document on the day and year set forth below.

LYONDELL PETROCHEMICAL COMPANY

By: 
Name: Jeffrey R. Pendergraft
Title: Senior Vice President

State of Texas
County of Harris

The foregoing instrument was acknowledged before me the undersigned notary on this 4th day of May, 199 8, by Jeffrey R. Pendergraft as the Senior Vice President of LYONDELL PETROCHEMICAL COMPANY, and on behalf thereof. He produced TDL-11123983 as identification.


Notary: _____
Name: _____
Commission Expires: _____
State of Texas
County of Harris

O & P PATENT SCHEDULE

Matter ID	Country	Patent Title	Serial Number	Filing Date	Patent Number	Issue Date	Assignee	Patent Status
7024	US	Production Of Monoaromatics From Light Pyrolysis Fuel Oil	644,252	1975/12/24	4,022,681	1977/05/10	Lyondell Petrochemical Company	Expired
7032	US	Aromatics From Driplene	25,628	1979/03/30	4,235,701	1980/11/25	Lyondell Petrochemical Company	Issued
7101	US	Treatment Of Off-Specification White Mineral Oil Made By Two Stage Hydrogenation	07/537,570	1990/06/14	5,098,556	1992/03/24	Lyondell Petrochemical Company	Issued
7108	US	Separation Process Employing Two Stripping Gases	07/732,938	1991-07-19	5,141,630	1992-08-25	Lyondell Petrochemical Company	Issued
7110	US	Lubricant Base Oil Processing	07/688,723	1991/04/19	5,275,718	1994/01/04	Lyondell Petrochemical Company	Issued
7111	US	Environmentally Friendly Grease Compositions	07/817,928	1992-01-06	5,154,840	1992-10-13	Lyondell Petrochemical Company	Issued
7163	US	Purification Of Unsaturated Hydrocarbon Streams Containing Styrenics	596,478	1990/10/12	5,081,325	1992/01/14	Lyondell Petrochemical Company	Issued
7166	US	Process For Isomerizing Linear Olefins To Isoolefins	07/711,044	1991/06/05			Lyondell Petrochemical Company	Pending
7167	US	Removal Of Polar Bodies And Other Contaminants From Hydrocarbon Streams	07/775,339	1991/10/11	5,207,894	1993/05/04	Lyondell Petrochemical Company	Issued
8202	BR	Process For Isomerizing Linear Olefins To Isoolefins	P19202150-6	1992/06/05			Lyondell Petrochemical Company	Pending
8203	CA	Process For Isomerizing Linear Olefins To Isoolefins	2,070,595-7	1992/06/05			Lyondell Petrochemical Company	Pending
8204	CN	Process For Isomerizing Linear Olefins To Isoolefins	92105606.0	1992/06/05			Lyondell Petrochemical Company	Pending
8205	FI	Process For Isomerizing Linear Olefins To Isoolefins	922581	1992/06/05			Lyondell Petrochemical Company	Pending
8206	ID	Process For Isomerizing Linear Olefins To Isoolefins	P-003,184	1992-06/04			Lyondell Petrochemical Company	Pending
8207	IN	Process For Isomerizing Linear Olefins To Isoolefins	459/92	1992/05/27			Lyondell Petrochemical Company	Pending
8208	JP	Process For Isomerizing Linear Olefins To Isoolefins	145937/92	1992/06/05			Lyondell Petrochemical Company	Pending
8209	KOR	Process For Isomerizing Linear Olefins To Isoolefins	92/9860	1992/06/04			Lyondell Petrochemical Company	Pending
8210	MY	Process For Isomerizing Linear Olefins To Isoolefins	P19200961	1992/06/03			Lyondell Petrochemical Company	Pending
8211	NO	Process For Isomerizing Linear Olefins To Isoolefins	P922209	1992/06/04			Lyondell Petrochemical Company	Pending
8212	RU	Process For Isomerizing Linear Olefins To Isoolefins	5011921.04	1992/06/04			Lyondell Petrochemical Company	Pending
8213	TH	Process For Isomerizing Linear Olefins To Isoolefins	016230	1992/06/05			Lyondell Petrochemical Company	Pending
8215	TW	Process For Isomerizing Linear Olefins To Isoolefins	81104404	1992/06/04			Lyondell Petrochemical Company	Pending
8218	EPC	Process For Isomerizing Linear Olefins To Isoolefins	92305090.0	1992/06/05			Lyondell Petrochemical Company	Pending
8214	MX	Process For Isomerizing Linear Olefins To Isoolefins	922721	1992-06-05	179490	1995-08-31	Lyondell Petrochemical Company	Issued
8216	VE	Process For Isomerizing Linear Olefins To Isoolefins	0827/92	1992-06-05	00827/92		Lyondell Petrochemical Company	Issued
8766	US	Process For Isomerizing Olefins To Isoolefins	08/486,476	1995/06/07			Lyondell Petrochemical Company	Pending
8771	US	Dyeable Polyolefin Compositions And Dyeing Polyolefin Compositions	08/154,682	1993/11/18	5,468,259	1995/11/21	Lyondell Petrochemical Company	Issued
8939	US	Wettable Polyolefin Fiber Compositions And Method	08/273,726	1994/07/12	5,464,687	1995/11/07	Lyondell Petrochemical Company	Issued

O & P PATENT SCHEDULE

9104	US	Process For Isomerizing Linear Olefins To Isoolefins	08/203,153	1994/02/28			Lyondell Petrochemical Company	Pending
9267	US	Dyeable Polyolefin Compositions And Dyeing Polyolefin Compositions	08/384,716	1995/02/03	5,550,192	1996/08/27	Lyondell Petrochemical Company	Issued
9268	US	Wettable Polyolefin Fiber Compositions And Method	08/423,528	1995/04/17	5,614,574	1997/03/25	Lyondell Petrochemical Company	Issued
9300	US	Dyeable Polyolefin Compositions And Method	08/422,304	1995-05-16	5,576,366	1996-11-19	Lyondell Petrochemical Company	Issued
9367	PCT	Dyeable Polyolefin Compositions And Method	US95/06590	1995/05/23			Lyondell Petrochemical Company	Pending
9368	IN	Dyeable Polyolefin Compositions And Method	598/CAL/95	1995/05/26			Lyondell Petrochemical Company	Pending
9370	MY	Dyeable Polyolefin Compositions And Method	P19501430	1995/05/30			Lyondell Petrochemical Company	Pending
9371	ID	Dyeable Polyolefin Compositions And Method	P951021	1995/06/05			Lyondell Petrochemical Company	Pending
9372	TH	Dyeable Polyolefin Compositions And Method	026704	1995/06/06			Lyondell Petrochemical Company	Pending
9373	PH	Dyeable Polyolefin Compositions And Method	50675	1995/06/06			Lyondell Petrochemical Company	Pending
9403	US	High Efficiency Catalyst Systems	08/579,786	1995/12/28			Lyondell Petrochemical Company	Pending
9404	US	Process For Producing Polyethylene	08/051,147	1993/04/22	5,444,133	1995/08/22	Lyondell Petrochemical Company	Issued
9426	BE	Improved Catalysts For Polymerizing Olefins	94925080.7	1995/05/08			Lyondell Petrochemical Company	Issued
9428	DE	Improved Catalysts For Polymerizing Olefins	94925080.7	1995/05/08			Lyondell Petrochemical Company	Issued
9433	CA	Process For The Manufacture Of Linear Polyethylene Containing A-Alkene Comonomers	2,062,371-3	1992/03/06			Lyondell Petrochemical Company	Pending
9450	US	Supported Catalysts	08/643,102	1995-05-02			Lyondell Petrochemical Company	Pending
9452	US	Polysiloxane Supported Metallocene Catalysts	08/654,435	1996-05-28			Lyondell Petrochemical Company	Pending
9457	US	Polymerization Catalysts Based On Transition Metal Complexes With Ligands Containing Pyrrolyl Ring (Azametallocene)	08/358,492	1994/12/19	5,539,124	1996/07/23	Lyondell Petrochemical Company	Issued
9462	US	Borabenzene Based Olefin Polymerization Catalysts	08/373,814	1995/01/17	5,554,775	1996/09/10	Lyondell Petrochemical Company	Issued
9465	US	Polymerization Of A-Olefins W/Transition Metal Catalysts Based On Bidentate Ligands	08/423,232	1995/04/17	5,637,660	1997/06/10	Lyondell Petrochemical Company	Issued
9494	PCT	Wettable Polyolefin Fiber Compositions And Method	US95/07522	1995/06/13			Lyondell Petrochemical Company	Pending
9495	IN	Wettable Polyolefin Fiber Compositions And Method	705/CAL/95	1995-06-20			Lyondell Petrochemical Company	Pending
9496	MY	Wettable Polyolefin Fiber Compositions And Method	P19501686	1995/06/21			Lyondell Petrochemical Company	Pending
9497	ID	Wettable Polyolefin Fiber Compositions And Method	P951210	1995/06/28			Lyondell Petrochemical Company	Pending
9498	TH	Wettable Polyolefin Fiber Compositions And Method	026713	1995/06/06			Lyondell Petrochemical Company	Pending
9499	PH	Wettable Polyolefin Fiber Compositions And Method	50873	1995/07/10			Lyondell Petrochemical Company	Pending
9526	US	Process For The Manufacture Of Linear Polyethylene Containing A-Alkene Comonomers	07/897,645	1992/06/11	5,236,998	1993/08/17	Lyondell Petrochemical Company	Issued
9678	US	Process For Producing High Molecular Weight (HMW) Film Resins	08/688,021	1996/07/26			Lyondell Petrochemical Company	Pending
9742	US	Alpha-Olefin Polymerization Catalysts	08/803,003	1997/02/21			Lyondell Petrochemical Company	Pending

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9882 PCT	Azametallocene Polymerization Catalysts	US95/16942	1995/12/18		Lyondell Petrochemical Company	Pending
9883 TW	Azametallocene Polymerization Catalysts	85100470	1996/01/16		Lyondell Petrochemical Company	Pending
9884 IN	Azametallocene Polymerization Catalysts	1696/CAL.95	1995/12/21		Lyondell Petrochemical Company	Pending
9923 AU	Process For Isomerizing Linear Olefins To Isoolefins	33102/95			Lyondell Petrochemical Company	Pending
9934 SG	Process For Isomerizing Linear Olefins To Isoolefins	9604184.3	1996/02/22		Lyondell Petrochemical Company	Pending
9952 PCT	Borabenzene Based Olefin Polymerization Catalysts	US95/16556	1995/12/20		Lyondell Petrochemical Company	Pending
9953 TW	Borabenzene Based Olefin Polymerization Catalysts	85101179	1996/01/31		Lyondell Petrochemical Company	Pending
9954 IN	Borabenzene Based Olefin Polymerization Catalysts	1734/CAL.95	1995/12/27		Lyondell Petrochemical Company	Pending
9986 PCT	Azaborolanyl Metal Complexes As Olefin Polymerization Catalysts	US96/03665	1996/03/18		Lyondell Petrochemical Company	Pending
9987 TW	Azaborolanyl Metal Complexes As Olefin Polymerization Catalysts	85105943	1996/05/20		Lyondell Petrochemical Company	Pending
9988 IN	Azaborolanyl Metal Complexes As Olefin Polymerization Catalysts	581/CAL.96	1996/03/29		Lyondell Petrochemical Company	Pending
9989 PCT	Polymerization Of α -Olefins W/Transition Metal Catalysts Based On Bidentate Ligands	US96/03656	1996/03/18		Lyondell Petrochemical Company	Pending
9991 TW	Polymerization Of α -Olefins W/Transition Metal Catalysts Based On Bidentate Ligands	85105789	1996/05/16		Lyondell Petrochemical Company	Pending
9992 IN	Polymerization Of α -Olefins W/Transition Metal Catalysts Based On Bidentate Ligands	580/CAL.96	1996/03/29		Lyondell Petrochemical Company	Pending
10035 EPC	Wettable Polyolefin Fiber Compositions And Method	95923851.0	1997/01/28		Lyondell Petrochemical Company	Pending
10040 US	Borabenzene Based Olefin Polymerization Catalysts - Div. Of 9462	08/651,190	1996/05/17	5,637,659	Lyondell Petrochemical Company	Issued
10111 US	Modified Polysiloxane Supported Catalysts And A Method Of Using The Same		1997/05/20		Lyondell Petrochemical Company	Pending
10181 US	Catalyst System Containing Reaction Product Of Silicone Oil And Polyamine	08/643,102	1997/03/06		Lyondell Petrochemical Company	Pending
10201 US	Azaborolanyl Metal Complexes As Olefin Polymerization Catalysts		1996/11/08		Lyondell Petrochemical Company	Pending
10202 PCT	High Efficiency Catalyst Systems	US96/20609	1996/12/24		Lyondell Petrochemical Company	Pending
10240 EPC	Dyeable Polyolefin Compositions And Method	95920647.5	1996/12/03		Lyondell Petrochemical Company	Pending
10241 AU	Dyeable Polyolefin Compositions And Method	26033/95	1997/01/06		Lyondell Petrochemical Company	Pending
10242 BR	Dyeable Polyolefin Compositions And Method	P19507945.9	1996/12/06		Lyondell Petrochemical Company	Pending
10243 CA	Dyeable Polyolefin Compositions And Method	2,190,376	1996/11/14		Lyondell Petrochemical Company	Pending
10244 CN	Dyeable Polyolefin Compositions And Method	95194364.2			Lyondell Petrochemical Company	Pending
10245 JP	Dyeable Polyolefin Compositions And Method	501019/96	1996/12/09		Lyondell Petrochemical Company	Pending
10246 KOR	Dyeable Polyolefin Compositions And Method	707002/1996	1996/12/07		Lyondell Petrochemical Company	Pending
10247 MX	Dyeable Polyolefin Compositions And Method	966194	1996/12/06		Lyondell Petrochemical Company	Pending

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10248 AU	Wettable Polyolefin Fiber Compositions And Method	28272/95	1997/02/12		Lyondell Petrochemical Company	Pending
10249 BR	Wettable Polyolefin Fiber Compositions And Method		1997/01/13		Lyondell Petrochemical Company	Pending
10250 CA	Wettable Polyolefin Fiber Compositions And Method	2,194,238	1996/12/31		Lyondell Petrochemical Company	Pending
10251 CN	Wettable Polyolefin Fiber Compositions And Method	95194995.0			Lyondell Petrochemical Company	Pending
10252 JP	Wettable Polyolefin Fiber Compositions And Method	504300/96	1997/01/09		Lyondell Petrochemical Company	Pending
10253 KOR	Wettable Polyolefin Fiber Compositions And Method	700173/1997	1997/01/11		Lyondell Petrochemical Company	Pending
10254 MX	Wettable Polyolefin Fiber Compositions And Method	970320	1997/01/10		Lyondell Petrochemical Company	Pending
10292 US	Transition Metal Catalysts Based On Bidentate Ligands Containing Pyridine Or Quinolone	08/872,659	1997/06/09		Lyondell Petrochemical Company	Pending
10300 EPC	Azaboroliny1 Metal Complexes As Olefin Polymerization Catalysts	96909752.6	1996/12/17		Lyondell Petrochemical Company	Pending
10306 EPC	Polymerization Of α -Olefins W/Transition Metal Catalysts Based On Bidentate Ligands Containing Pyridine Or Quinolone Moiety	96909748.4	1996/12/16		Lyondell Petrochemical Company	Pending
10342 US	Blended Dye Process	08/858,739	1997/05/19		Lyondell Petrochemical Company	Pending
10377 PCT	Supported Catalysts	US97/07483	1997/05/01		Lyondell Petrochemical Company	Pending
10378 IN	Supported Catalysts		1997/05/02		Lyondell Petrochemical Company	Pending
10379 PCT	Polysiloxane Supported Metallocene Catalysts		1997/05/28		Lyondell Petrochemical Company	Pending
10380 IN	Polysiloxane Supported Metallocene Catalysts	981/CAL97	1997/05/27		Lyondell Petrochemical Company	Pending
10381 EPC	Borabenzene Based Olefin Polymerization Catalysts		1997/08/17		Lyondell Petrochemical Company	Pending
10382 EPC	Azametallocene Polymerization Catalysts		1997/07/01		Lyondell Petrochemical Company	Pending
10383 AU	Borabenzene Based Olefin Polymerization Catalysts				Lyondell Petrochemical Company	Pending
10384 BR	Borabenzene Based Olefin Polymerization Catalysts				Lyondell Petrochemical Company	Pending
10385 CA	Borabenzene Based Olefin Polymerization Catalysts				Lyondell Petrochemical Company	Pending
10386 CN	Borabenzene Based Olefin Polymerization Catalysts				Lyondell Petrochemical Company	Pending
10387 JP	Borabenzene Based Olefin Polymerization Catalysts				Lyondell Petrochemical Company	Pending
10388 KOR	Borabenzene Based Olefin Polymerization Catalysts				Lyondell Petrochemical Company	Pending
10389 MX	Borabenzene Based Olefin Polymerization Catalysts				Lyondell Petrochemical Company	Pending
10390 RU	Borabenzene Based Olefin Polymerization Catalysts				Lyondell Petrochemical Company	Pending
10399 BR	Azametallocene Polymerization Catalysts		1997/06/19		Lyondell Petrochemical Company	Pending
10400 CA	Azametallocene Polymerization Catalysts		1997/06/18		Lyondell Petrochemical Company	Pending
10401 CN	Azametallocene Polymerization Catalysts		1997/07/18		Lyondell Petrochemical Company	Pending
10402 JP	Azametallocene Polymerization Catalysts		1997/06/19		Lyondell Petrochemical Company	Pending
10403 KOR	Azametallocene Polymerization Catalysts	97-704114	1997/06/19		Lyondell Petrochemical Company	Pending

O & P PATENT SCHEDULE

10487 US	Borabenzene Based Catalysts	08/872,213	1997/06/09			Lyondell Petrochemical Company	Pending
10558 EPC	High Efficiency Catalyst	96956516.4				Lyondell Petrochemical Company	Pending
10584 US	Method Of Producing Olefins And Feedstock For Use In Olefin Production From Petroleum Residua Which Have Low Pentane Insolubles And High Hydrogen Content	08/951,041	1997/10/15			Lyondell Petrochemical Company	Pending

RECORDED: 06/08/1998

PATENT
REEL: 9242 FRAME: 0426