### TRADEMARK ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: **NEW ASSIGNMENT** 

NATURE OF CONVEYANCE: RELEASE BY SECURED PARTY

#### **CONVEYING PARTY DATA**

Name	Formerly	Execution Date	Entity Type
Wells Fargo Bank, National Association		10/22/2013	National Association:

### **RECEIVING PARTY DATA**

Name:	Equistar Chemicals, LP
Street Address:	1221 McKinney Street
Internal Address:	LyondellBasell Tower
City:	Houston
State/Country:	TEXAS
Postal Code:	77010
Entity Type:	LIMITED PARTNERSHIP: DELAWARE

### PROPERTY NUMBERS Total: 16

Property Type	Number	Word Mark
Registration Number:	391698	FILMEX
Registration Number:	543580	ALATHON
Registration Number:	611277	PETROTHENE
Registration Number:	715595	MICROTHENE
Registration Number:	718049	PETROTHENE
Registration Number:	764486	"ULTRATHENE"
Registration Number:	783813	ULTRATHENE
Registration Number:	1001381	PUNCTILIOUS
Registration Number:	1241723	FILMEX
Registration Number:	1413868	PLEXAR
Registration Number:	1902244	ISOMPLUS
Registration Number:	2091638	FLEXATHENE
Registration Number:	2352343	EQUISTAR
	11	TRADEMARK

**REEL: 005210 FRAME: 0850** 

Registration Number:	2278210	EQUISTAR
Registration Number:	2946794	INTEGRATE
Registration Number:	3399585	STARFLEX

#### **CORRESPONDENCE DATA**

Fax Number: 7133094631

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Phone: 7133097550

Email: legal-ip@lyondellbasell.com

Correspondent Name: LyondellBasell

Address Line 1: 1221 McKinney Street

Address Line 2: LyondellBasell - Legal Department

Address Line 4: Houston, TEXAS 77010

ATTORNEY DOCKET NUMBER:	WELLSFARGO_EQUISTAR
NAME OF SUBMITTER:	Jason P. Sander
Signature:	/Jason P. Sander/
Date:	02/06/2014

Total Attachments: 24

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#### RELEASE OF INTELLECTUAL PROPERTY SECURITY INTEREST

This RELEASE OF INTELLECTUAL PROPERTY SECURITY INTEREST ("Release"), is made and effective as of October 22, 2013 and granted by WELLS FARGO BANK, NATIONAL ASSOCIATION (the "Collateral Agent"), as collateral agent for the secured parties under the Indenture referred to below (the "Secured Parties"), in favor of LYONDELL CHEMICAL COMPANY, a Delaware corporation ("Lyondell"); EQUISTAR CHEMICALS, LP, a Delaware limited partnership, HOUSTON REFINING LP, a Delaware limited partnership, LYONDELLBASELL ACETYLS LLC, a Delaware limited liability company, LYONDELL CHEMICAL TECHNOLOGY, L.P., a Delaware limited partnership and each other Grantor.

WHEREAS, LYONDELLBASELL INDUSTRIES N.V., a naamloze vennootschap (a public limited liability company) formed under the laws of The Netherlands, Lyondell, and the Collateral Agent as trustee entered into that certain Indenture, dated as of April 30, 2010 (the "Indenture");

WHEREAS, in connection with the Indenture, the Grantors delivered to the Collateral Agent (i) that certain Security Agreement, dated as of April 30, 2010, made by and among the Grantors and the Collateral Agent (the "Master Security Agreement") and (ii) those certain Patent Security Agreements, Trademark Security Agreements and Copyright Security Agreements, each dated as of April 30, 2010, made by and among the applicable Grantors and the Collateral Agent (together with the Master Security Agreement, the "Security Agreements");

WHEREAS, capitalized terms used but not otherwise defined herein shall have the meanings ascribed thereto in the Master Security Agreement;

WHEREAS, pursuant the Security Agreements, each Grantor pledged and granted to the Collateral Agent for the ratable benefit of the Secured Parties a security interest in and to all of the right, title and interest of such Grantor in, to and under the IP Collateral (as defined herein); and

WHEREAS, the Grantors have requested that the Collateral Agent enter into this Release in order to evidence the release and reassignment of any and all right, title and interest the Collateral Agent and the Secured Parties in the IP Collateral (as defined herein) pursuant to the Security Agreements, such release occurred on November 7, 2011.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Collateral Agent hereby states as follows:

- 1. <u>Definition</u>. The term "IP Collateral", as used herein, shall mean all of each Grantor's right, title and interest of every kind and nature as of the date hereof in the Intellectual Property including the following (collectively, the "IP Collateral"):
- (a) any and all patents and patent applications, including any and all patents and patent applications set forth in Annex A hereto;
- (b) any and all trademarks and service marks, including any and all trademarks, service marks, and applications for trademark or service mark set forth in Annex B hereto; and
- (c) any and all copyrights and copyright applications, including any and all copyrights and copyright applications set forth in Annex C hereto.
- 2. <u>Release of Security Interest</u>. The Collateral Agent, on behalf of itself and the Secured Parties, their successors, legal representatives and assigns, confirms that its security interest in and to the IP Collateral was released on November 7, 2011, and all other right, title, and interest in and to the IP Collateral has been reassigned to the Grantors.
- 3. <u>Further Assurances</u>. The Collateral Agent agrees to execute, acknowledge, procure and deliver to the Grantors any and all further documents or instruments and do any and all further acts which the Grantors (or their respective agents, designees or assignees) reasonably request in order to confirm, effectuate or record this Release and the Grantors' (or their assignees') right, title and interest in and to the IP Collateral.
- 4. <u>Governing Law</u>. This Release shall be construed in accordance with and governed by the law of the State of New York.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, Collateral Agent has caused this Release to be duly executed and delivered by its officer thereunto duly authorized as of the date first above written.

WELLS FARGO BANK, NATIONAL ASSOCIATION as Collateral Agent

By: \_\_\_ Name:

Title:

Raymond Delli Coll
Vice President

# ANNEX A

# **PATENTS**

Annex A

# Schedule 11(a), Part 1B - United States Patents

# United States Patent Applications and Patents

PATENT APPLICATIONS AND PATENTS OWNED BY LYONDELL CHEMICAL TECHNOLOGY, L.P. Application Number /

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Patent Number	Title
10/387849	ORGANOSULFUR OXIDATION PROCESS
10/770924	EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
10/867507	CATALYST REGENERATION PROCESS
11/104122	CATALYST PREPARATION
11/245708	SELECTIVE OLEFIN OLIGOMERIZATION
11/249241	POLYMER-ENCAPSULATED ION-EXCHANGE RESIN
11/346500	PREPARATION OF PALLADIUM-GOLD CATALYSTS
11/633196	PROPYLENE OXIDE SYSTEM
11/641482	INORGANIC OXIDE EXTRUDATES
11/728098	PROPYLENE OXIDE RECOVERY PROCESS
11/801935	PREPARATION OF PALLADIUM-GOLD CATALYSTS
11/818318	PROPYLENE PRODUCTION
11/879265	PREPARATION OF ALKANOLAMINES
11/890728	PROPYLENE AND ISOPRENE PRODUCTION
11/977363	DESULFURIZATION PROCESS
12/009212	PRODUCTION OF PROPYLENE GLYCOL MONOALKYL ETHER
12/072575	EPOXIDATION CATALYST
	REMOVING HYDROCARBON IMPURITIES FROM ACETIC ACID PRODUCTION
12/077098	PROCESS
	REMOVING HYDROCARBON IMPURITIES FROM ACETIC ACID BY IONIC LIQUID
12/151554	EXTRACTION
12/156004	DIISOBUTYLENE PROCESS
12/231220	PROPYLENE OXIDE PROCESS
12/283329	PREPARATION OF ACETIC ACID
12/284727	EPOXIDATION CATALYST
	RESIDUAL STREAM UPGRADING IN A PROPYLENE OXIDE-STYRENE MONOMER
12/286229	PROCESS
12/290757	REMOVING IODOBENZENE COMPOUNDS FROM ACETIC ACID
	SUPPORTED PALLADIUM-GOLD CATALYSTS AND PREPARATION OF VINYL
12/291628	ACETATE THEREWITH
12/315605	DIISOBUTYLENE PROCESS
12/315887	PREPARATION OF ACETIC ACID
12/316948	PURIFICATION OF ULTRALOW SULFUR DIESEL FUEL
12/317012	DIRECT EPOXIDATION PROCESS USING IMPROVED CATALYST
12/317749	SPRAY DRIED ZEOLIT CATALYST
12/317794	PROPYLENE PRODUCTION
12/317873	CATALYST REGENERATION
12/319247	PROPYLENE OXIDE REACTOR GAS DISTRIBUTION SYSTEM
12/322650	ALLYL DIACETATE DECOMPOSITION
12/383347	DEHYDRATION OF 1-PHENYL ETHANOL
	REMOVING HYDROCARBON IMPURITIES FROM ACETIC ACID PRODUCTION
12/383896	INTERMEDIATE
12/383904	EXTRACTIVE DISTILLATION OF CONJUGATED DIENE
12/454156	HYDROFORMYLATION PROCESS
12/456,090	DIRECT EPOXIDATION USING MODIFIERS
12/459065	EPOXIDATION PROCESS
	PROCESS FOR MAKING GLYCOL ETHER COMPOSITIONS USEFUL FOR METAL
12/460225	RECOVERY

12/460227	PASSIVATION OF THERMAL CRACKING FURNACE CONDUIT
12/586637	STEAM CRACKING PROCESS
12/586 <del>966</del>	PROCESS FOR PRODUCING ALLYL ACETATE
12/587580	VINYL ACETATE PRODUCTION PROCESS
12/589775	DIRECT EPOXIDATION PROCESS USING ALKANOIC ACID MODIFIER
12/589930	METHOD FOR QUANTIFYING PERMANGANATE-REDUCING COMPOUNDS
12/589931	METHOD FOR QUANTIFYING PERMANGANATE-REDUCING COMPOUNDS
12/589932	PROPYLENE OXIDE ISOMERIZATION PROCESS
12/589933	PROCESS FOR PRODUCING ALLYL ACETATE
12/592457	ALLYL ACETATE HYDROFORMYLATION PROCESS
12/653144	VINYL ACETATE PRODUCTION PROCESS
12/653563	TITANIA-CONTAINING EXTRUDATE
12/653592	PREPARATION OF PALLADIUM-GOLD CATALYST
12/653677	ALLYL ACETATE PURIFICATION
12/653678	DIRECT EPOXIDATION CATALYST AND PROCESS
12/653878	HYDROFORMYLATION PROCESS
*********	RECOVERY OF PROPANE PURGE STREAM FROM A PROPYLENE OXIDE PRODUCTION
12/655099	PROCESS PROCESS TREAM FROM A PROPELENE OXIDE PRODUCTION
12/657893	TITANIA-ALUMINA SUPPORTED PALLADIUM CATALYST
12/657896	PROPYLENE OXIDE PROCESS
12/658029	PROCESS FOR MAKING TITANIUM-MWW ZEOLITE
12/660372	PROCESS FOR PRODUCING ALLYL ALCOHOL
12/798060	
12/798195	PROCESSING OF ACID CONTAINING HYDROCARBONS CATALYTIC HYDROGENATION PROCESS
12/798297	
12/798598	PURIFICATION OF PROPYLENE OXIDE
142/70376	PREPARATION OF ACETIC ACID
6026024	METHOD FOR CONVERTING LIGHT HYDROCARBONS TO OLEFINS, GASOLINE AND
5026934	METHANOL
5300718	OLEFIN CONVERSION PROCESS
5039508	PRODUCTION OF HYDROGEN PEROXIDE
5043481	CYCLOHEXANE OXIDATION
5043522	PRODUCTION OF OLEFINS
5107050	OLEFIN SKELETAL ISOMERIZATION
5146034	CONVERSION OF PARAFFINS TO OLEFINS
5162593	TERTIARY BUTYL ALCOHOL PREPARATION
5166370	PREPARATION OF TETRAHYDROFURAN USING A SUPPORTED TRANSITION METAL
5171868	EPOXIDATE TREATMENT
5171921	PRODUCTION OF OLEFINS
5198590	HYDROCARBON CONVERSION
5202463	PROCESS FOR THE PREPARATION OF A GLYCOL ETHER ESTER
	RECOVERY OF GROUP VIII TRANSITION METALS FROM ORGANIC SOLUTIONS
5208194	USING ACIDIC ION-EXCHANGE RESINS
	PREPARATION OF TETRAHYDROFURAN POLYMERS HAVING A NARROW
	MOLECULAR WEIGHT DISTRIBUTION USING AN AMORPHOUS SILICA-ALUMINA
5208385	CATALYST
5233093	HYDROFORMYLATION PROCESS AND BIMETALLIC CATALYST THEREFOR
5239007	OIL-ABSORBENT COMPOSITIONS
5262371	ALKYLENE OXIDE ISOMERIZATION PROCESS AND CATALYST
5276210	HYDROFORMYLATION PROCESS AND BIMETALLIC CATALYST THEREFOR
	RESIDUAL STREAM UPGRADING IN A PROPYLENE OXIDE-STYRENE MONOMER
5276235	PROCESS
	PROCESS FOR REGENERATING A DEACTIVATED RHODIUM HYDROFORMYLATION
5290743	CATALYST SYSTEM
5292974	ALKYLENE OXIDE ISOMERIZATION PROCESS AND CATALYST
5308365	DIESEL FUEL
5312998	INTEGRATED PROCESS FOR THE PRODUCTION OF DITERTIARY BUTYL PEROXIDE
	The state of the s

5314511	DIRSEL FUEL
	PREPARATION OF POLYESTERS FROM POLYETHERS BY AN ESTER-INSERTION
5319006	PROCESS
5352807	PROPYLENE OXIDE PURIFICATION
5374747	EPOXIDATION PROCESS AND CATALYST THEREFORE
5420357	PREPARATION OF DIALKYL PEROXIDES
5436313	PROCESS FOR MAKING A POLYETHERESTER
	PROCESS FOR MAKING A POLYETHERESTER BY INSERTION OF A CARBOXYLIC
5436314	ACID INTO A POLYETHER
5436382	ISOBUTYLENE RECOVERY PROCESS
5444141	PROCESS FOR MAKING VINYL AROMATIC/ALLYLIC ALCOHOL COPOLYMERS
5466836	CATALYTIC CONVERTER AND METHOD FOR HIGHLY EXOTHERMIC REACTIONS
5468885	EPOXIDIZER OXYGEN RECOVERY
5475073	HYDROXY-FUNCTIONAL ACRYLATE RESINS
5475147	PRODUCTION OF TERTIARY BUTYL HYDROPEOXIDE
5476971	GLYCERINE DITERTIARY BUTYL ETHER PREPARATION
5493035	PROPYLENE OXIDE PURIFICATION
5504261	PRODUCTION OF HYDROXY COMPOUNDS
5512 <del>64</del> 2	PROCESS FOR MAKING VINYL AROMATIC/ALLYLIC ALCOHOL COPOLYMERS
5525693	HYDROXY-FUNCTIONAL ACRYLATE RESINS
	REMOVAL OF PRIMARY AND SECONDARY HYDROPEROXIDE IMPURITIES FROM
555479 <del>6</del>	TERTIARY HYDROPEROXIDES
5567853	PURIFICATION OF ACETONE
	PROCESS FOR MAKING A POLYETHERESTER BY INSERTION OF A CARBOXYLIC
5569737	ACID INTO A POLYETHER
5571884	HYDROXY-FUNCTIONAL ACRYLATE RESINS
5573736	CATALYTIC CONVERTER AND METHOD FOR HIGHLY EXOTHERMIC REACTIONS
5585077	MOLYBDENUM EPOXIDATION CATALYST RECOVERY
5591875	IMPROVED EPOXIDATION PROCESS
5600033	IMPROVED EPOXIDE ISOMERIZATION CATAYSTS
	PROCESS FOR MAKING A POLYETHERESTER BY INSERTION OF A CARBOXYLIC
5610205	ACID INTO A POLYETHER
5646314	IMPROVED PROCESS FOR TITANIUM SILICALITE-CATALYZED EPOXIDATION
5659102	PRODUCTION OF ISO OLEFIN OLIGOMERS
5679749	NIOBIUM-CONTAINING ZEOLITES
5681789	ACTIVATION OF AS-SYNTHESIZED TITANIUM-CONTAINING ZEOLITES
5684170	EPOXIDATION PROCESS (AS AMENDED)
	A NON-HYDROTHERMAL METHOD OF MAKING A TITANIUM-CONTAINING ZEOLITE
5688484	(AS AMENDED)
5695736	EPOXIDATION PROCESS AND CATALYST THEREFORE
5731446	MOLYBDENUM EPOXIDATION CATALYST RECOVERY
5741749	REGENERATION OF A TITANIUM-CONTAINING MOLECULAR SIEVE
5753576	REGENERATION OF A TITANIUM-CONTAINING MOLECULAR SIEVE
	PREPARATION OF TITANIUM-CONTAINING CATALYSTS USING TITANOSILOXANE
5759945	POLYMERS
5760253	CATALYTIC CONVERTER AND METHOD FOR HIGHLY EXOTHERMIC REACTIONS
	EPOXIDATION PROCESS USING SUPPORTED SILVER CATALYSTS PRETREATED
5770746	WITH ORGANIC CHLORIDE
5840933	CATALYTIC CONVERTER SYSTEM AND PROCESS
	EPOXIDATION PROCESS USING SERIALLY CONNECTED CASCADE OF FIXED BED
5849937	REACTORS
5849938	SEPARATION OF METHANOL AND PROPYLENE OXIDE FROM A REACTION MIXTURE
5863391	PUKIFICATION OF A METHANOL STREAM
5866714	ESTER PREPARATION
5877372	SELECTIVE OLEFIN OLIGOMERIZATION
5883268	PROCESS STREAM PURIFICATION

5886114	PROCESS FOR MAKING VINYL AROMATIC/ALLYLIC ALCOHOL COPOLYMERS
5912367	HIGH EFFICIENCY EPOXIDATION PROCESS
5916835	HETEROGENEOUS CATALYST REGENERATION
5932751	EPOXIDATION CATALYST AND PROCESS
5938835	CEMENT COMPOSITION
5939569	EPOXIDATION PROCESS
5972173	ALLYL ALCOHOL PURIFICATION
5973171	PROPYLENE OXIDE PRODUCTION
5993673	PURIFICATION PROCESS
59 <del>94</del> 578	ESTER PREPARATION
6005123	EPOXIDATION PROCESS
6008388	EPOXIDATION PROCESS
	EPOXIDATION PROCESS USING IMPROVED HETEROGENEOUS CATALYST
6011162	COMPOSITION
6018076	ESTER PREPARATION
6024840	PROPYLENE OXIDE PURIFICATION
6037484	IMPROVED EPOXIDATION PROCESS
6063942	CATALYST PREPARATION AND EPOXIDATION PROCESS
6066750	HIGH EFFICIENCY EPOXIDATION PROCESS
6083870	ALKALINE EARTH METAL COMPOUND-SUPPORTED SILVER CATALYSTS
6103840	PROCESS FOR MAKING ALLYLIC/ETHYLENIC COPOLYMERS
6114552	HETEROGENEOUS EPOXIDATION CATALYST
6127584	BUTANEDIOL PRODUCTION
6153153	CATALYTIC CONVERTER SYSTEM AND PROCESS
	PROCESS FOR MAKING HYDROXY-FUNCTIONAL ACRYLIC RESINS HAVING LOW
6153713	RESIDUAL ALLYL MONOMER CONTENT
6194591	AQUEOUS EPOXIDATION PROCESS USING MODIFIED TITANIUM ZEOLITE
6194602	TERTIARY ALKYL ESTER PREPARATION
6225509	ALLYL ALCOHOL HYDROFORMYLATION
6232505	METHOXYACETONE PREPARATION
6242640	TERTIARY ALKYL ESTER PREPARATION USING LARGE-PORE ZEOLITE CATALYSTS
6264800	PURIFICATION PROCESS
6281369	EPOXIDATION CATALYST AND PROCESS
6306263	IMPURITIES SEPARATION BY DISTILLATION
6307073	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
6310224	EPOXIDATION CATALYST AND PROCESS
6375804	TERTIARY BUTYL ACETATE RECOVERY
6376686	DIRECT EPOXIDATION PROCESS
6376720	COBALT-CATALYZED PROCESS FOR PREPARING 1,3-PROPANEDIOL
6376724	COBALT-CATALYZED PROCESS FOR PREPARING 1,3-PROPANEDIOL
6376731 6383966	SELECTIVE OLEFIN OLIGOMERIZATION
6399794	HETEROGENEOUS EPOXIDATION CATALYST
6403815	DIRECT EPOXIDATION PROCESS USING CARBONATE MODIFIERS
6417378	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
6417412	DIRECT EPOXIDATION PROCESS USING PRE-TREATED TITANIUM ZEOLITE
V91/41&	PURIFICATION OF TERTIARY BUTYL ALCOHOL
6441203	DIRECT EPOXIDATION PROCESS USING A PALLADIUM ON NIOBIUM-CONTAINING
6441204	SUPPORT DIDECT DECYTE ATTOM PROGRESS MEETING A A CHAPTE CATALOGUE
6455657	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
6478930	PREPARATION OF VINYL AROMATIC-ALLYLIC ALCOHOL COPOLYMERS
6498259	IMPURITIES SEPARATION BY DISTILLATION
6500311	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM PROPYLENE OXIDE PURIFICATION
~>v>1 C	
6512066	PROCESS FOR MAKING CROSSLINKED POLYVINYLPYRROLIDONE WITH LOW SWELL VOLUME
6512129	EPOXIDATION PROCESS
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6555493	SOLID EPOXIDATION CATALYST AND PREPARATION
6562987	REACTOR SYSTEM AND METHOD FOR HIGHLY EXOTHERMIC REACTIONS
6583300	EPOXIDATION SYSTEM WITH FIXED BED REACTORS
6660800	PROCESS FOR MAKING CROSSLINKED POLYVINYLPYRROLIDONE
6696521	HIGH PERFORMANCE ORTHO UPR
6710192	DENSE PHASE EPOXIDATION
6710194	EPOXIDATION PROCESS
6755979	PEROXIDE IMPURITIES REMOVAL
6759541	EPOXIDATION PROCESS USING A SUPPORTED NIOBIUM OXIDE CATALYST
6762262	PREPARATION OF ACRYLIC POLYOLS
6770790	PURIFICATION OF TERTIARY BUTYL ALCOHOL
6781010	NON-PHOSGENE ROUTE TO THE MANUFACTURE OF ORGANIC ISOCYANATES
6803491	PREPARATION OF LITHIUM PHOSPHATE CATALYSTS
6867312	PROPYLENE OXIDE PROCESS
6870060	PRODUCT RECOVERY FROM SUPERCRITICAL MIXTURES
6872679	HETEROGENEOUS CATALYST REGENERATION
6884898	PROPYLENE OXIDE PROCESS
6906200	PRODUCTION OF N-VINYL PYRROLIDONE
6914167	VENT RECOVERY SYSTEM
6930143	ACRYLIC LATEX COMPOSITION
6936740	DENSE PHASE OXIDATION OF BENZENE
6958405	POLYMER-ENCAPSULATED TITANIUM ZEOLITES FOR OXIDATION REACTIONS
F0 F0 F0 8	PROCESS FOR DIRECT OXIDATION OF PROPYLENE TO PROPYLENE OXIDE AND
6960671	LARGE PARTICLE SIZE TITANIUM SILICALITE CATALYSTS FOR USE THEREIN
6969780	PRODUCTION OF BUTANEDIOL
6972337	EPOXIDATION PROCESS
<i>ረስ</i> ማማሳወሳ	PREPARATION OF DICYCLOPENTADIENE-CONTAINING UNSATURATED
6977282	POLYESTERS
6982337 6984606	PROCESS FOR MAKING N-VINYL-2-PYRROLIDONE
0784000	EPOXIDATION CATALYST
7002026	REMOVAL OF PROPYLENE GLYCOL AND PROPYLENE GLYCOL ETHERS FROM
7002020	AQUEOUS STREAMS DIISOBUTYLENE PROCESS
7012107	
7026492	PURIFICATION OF METHYL TERTIARY BUTYL ETHER DIRECT EPOXIDATION PROCESS USING MODIFIERS
/UZU+7Z	
7030255	OXIDATION PROCESS WITH IN-SITU H2O2 GENERATION AND POLYMER- ENCAPSULATED CATALYSTS THEREFOR
7030233	
7057056	METHOD FOR PURIFYING N-(2-HYDROXYETHYL)-2-PYRROLIDONE EPOXIDATION CATALYST
7060787	EXTRACTION OF IMPURITIES FROM GRAFTED POLYOLEFINS
7105687	PROPYLENE OXIDE PURIFICATION AND RECOVERY
7138535	DIRECT EPOXIDATION PROCESS
7144499	DESULFURIZATION PROCESS
7153978	METHOD FOR PURIFYING N-METHYL-2-PYRROLIDONE
7208625	REMOVING PERMANGANATE-REDUCING IMPURITIES FROM ACETIC ACID
7232783	PROPYLENE OXIDE CATALYST AND USE
7238260	PURIFICATION OF N-(2-HYDROXYETHYL)-2-PYRROLIDONE
7238817	DIRECT EPOXIDATION PROCESS
7253305	TERTIARY ALKYL ACETATE PREPARATION
7256149.	CATALYST REGENERATION PROCESS
7259280	PROCESS FOR PRODUCING ALKENYL ALCOHOLS
7270742	ORGANOSULFUR OXIDATION PROCESS
7271117	EPOXIDATION CATALYST
7271295	HYDROFORMYLATION PROCESS
7273826	EPOXIDATION CATALYST
7276464	TITANIUM ZEOLITE CATALYSTS

	MIT TIDUAGE DE ACTOR DEGICNI NICODINOS ATRIXO ESTADA CONTRACTORIO
7279145	MULTIPHASE REACTOR DESIGN INCORPORATING FILTRATION SYSTEM FOR FIXED- BED CATALYST
7279606	HYDROFORMYLATION PROCESS
7288237	EPOXIDATION CATALYST
7294602	HYDROFORMYLATION PROCESS
7345197	PREPARATION OF ACETIC ACID
7357909	PROCESS FOR PRODUCING HYDROGEN PEROXIDE
7365217	OXIDATION PROCESS
7381675	DIRECT EPOXIDATION CATALYST
7387981	DIRECT EPOXIDATION CATALYST AND PROCESS
7390919	METHYL ACETATE PURIFICATION AND CARBONYLATION
,,,,,,,,	PROCESS FOR DIRECT OXIDATION OF PROPYLENE TO PROPYLENE OXIDE AND
7399726	LARGE PARTICLE SIZE TITANIUM SILICALITE CATALYSTS FOR USE THEREIN
7414164	DISOBUTYLENE PROCESS
7425652	PREPARATION OF ALKANOLAMINES
7432384	DIRECT EPOXIDATION PROCESS
7439405	PURIFICATION OF PROPYLENE GLYCOL MONOALKYL ETHER
7453003	DIRECT EPOXIDATION CATALYST AND PROCESS
7470800	TITANIUM ZEOLITE CATALYSTS
7470801	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
7476770	EPOXIDATION CATALYST  EPOXIDATION CATALYST
14/0//0	PROCESS FOR MAKING ALKYLENE GLYCOL ETHER COMPOSITIONS USEFUL FOR
7482495	METAL RECOVERY
7501532	PROCESS FOR PRODUCING HYDROGEN PEROXIDE
7528269	PROCESS FOR OXIDIZING ORGANIC COMPOUNDS
7531675	DIRECT EPOXIDATION PROCESS USING IMPROVED CATALYST COMPOSITION
7541479	DIRECT EPOXIDATION PROCESS USING IMPROVED CATALYST COMPOSITION DIRECT EPOXIDATION PROCESS
7550065	METHOD FOR RECOVERING SOLVENTS
7550610	DIRECT EPOXIDATION PROCESS
7563740	DIRECT EPOXIDATION PROCESS  DIRECT EPOXIDATION PROCESS
7575604	DRYCLEANING METHOD
7595410	DIRECT EPOXIDATION PROCESS USING IMPROVED CATALYST COMPOSITION
7612241	HYDROFORMYLATION PROCESS USING IMPROVED CATALYST COMPOSITION
7615654	DIRECT EPOXIDATION PROCESS
7013034	MULTIPHASE REACTOR DESIGN INCORPORATING FILTRATION SYSTEM FOR FIXED-
7642365	BED CATALYST  BED CATALYST
7645892	REACTION SYSTEM
7648936	SPRAY-DRIED TRANSITION METAL ZEOLITE AND ITS USE
7649102	PROPYLENE OXIDE PROCESS
7655821	DIRECT HYDROCARBONYLATION PROCESS
7671222	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
7687647	PROPYLENE OXIDE PROCESS
7696367	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
7700790	ALKYLENE OXIDE PROCESS
5081325	PURIFICATION OF UNSATURATED HYDROCARBON STREAMS CONTAINING STYRENICS
5120894	OLEFIN CONVERSION PROCESS
~ * * * * * * * * * * * * * * * * * * *	
5157205	PROCESS FOR REMOVING ALDEHYDES AND/OR VINYL ESTERS FROM GASEOUS OR LIQUID PROCESS STREAMS
A 4 64 1 WAM	SANTA I WOODD DIWIND

# PATENTS OWNED BY LYONDELL CHEMICAL TECHNOLOGY, L.P., AND MILLENNIUM PETROCHEMICALS INC.

7485749	PREPARATION OF ACETIC ACID
	PREPARATION OF ACETIC ACID

PATENT APPLICAT	TIONS AND PATENTS OWNED BY LYONDELL CHEMICAL TECHNOLOGY, L.P.,
12/316829	AND EQUISTAR CHEMICALS, LP CATALYST REGENERATION METHOD
12/583313	CAINLIST REGENERATION METHOD
	METHOD FOR REDUCING COKE FOULING IN A BURNER TIP
12/583871	PREPARATION OF ACETIC ACID
7314545	DESULFURIZATION PROCESS
7392988	ROTARY SEAL
7527725	UPGRADING DRIP OIL
7615144	HYDROCARBON THERMAL CRACKING USING HARDFACED FITTINGS
PATENT A	PPLICATIONS AND PATENTS OWNED BY EQUISTAR CHEMICALS, LP
08/287078	ZR/V MULTI-SITE OLEFIN POLYMERIZATION CATALYST AND POLYMER
10/774161	PREPARATION OF POLYETHYLENE FILMS
	POLYETHYLENE FILMS HAVING HIGH RESISTANCE TO DEFORMATION OF
10/879763	ELONGATION
11/053962	MULTILAYER POLYETHYLENE THIN FILMS
11/054202	PREPARATION OF MULTILAYER POLYETHYLENE THIN FILMS
11.00 12.00	MODIFIED TIE-LAYER COMPOSITIONS AND IMPROVED CLARITY MULTI-
11/221119	LAYER BARRIER FILMS PRODUCED THEREWITH
11/362625	SOLID STATE MODIFICATION OF PROPYLENE POLYMERS
11/635324	HYDROCARBON CRACKING
11/03/324	
11/651265	PROCESS FOR PRODUCING MULTI-LAYER STRUCTURES HAVING IMPROVED METAL ADHESION
11/698591	
11/030331	MDO MULTILAYER POLYETHYLENE FILM
11910011	IMPROVING BARRIER PROPERTIES OF SUBSTANTIALLY LINEAR HDPE FILM
11/717944	WITH NUCLEATING AGENTS
11/799907	DYNAMIC SEAL ASSEMBLY
4.1004004	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL/CONDENSATE
11/800824	FEEDSTOCK AND HYDROTREATING
11/803905	HYDROCARBON THERMAL CRACKING USING ATMOSPHERIC RESIDUUM
11/807315	METHOD FOR CONVEYING POLYMER
11/809688	PREPARATION OF POLYETHYLENE
11/888501	IMPROVED RHEOLOGY-MODIFIED GRAFTS AND ADHESIVE BLENDS
	MONOMER CONCENTRATION PREDICTION AND CONTROL IN A
11/890726	POLYMERIZATION PROCESS
	OLEFIN PRODUCTION UTILIZING A FEED CONTAINING CONDENSATE AND
11/894013	CRUDE OIL.
	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL/CONDENSATE
11/894123	FEEDSTOCK AND SELECTIVE HYDROCRACKING
11/897438	POLYOLEFIN RESIN BLENDS FOR CRACK-RESISTANT PIPE
11/899090	OLEFIN POLYMERIZATION PROCESS
11/899113	OLEFIN POLYMERIZATION PROCESS
11/906306	MODIFICATION OF POLYETHYLENE WITH OZONE
11/978297	TUBE HANDLING METHOD AND APPARATUS
a ser v dans s	IMPROVED TIE-LAYER ADHESIVES FOR STYRENE POLYMERS AND
12/006370	ARTICLES
12000370	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL/CONDENSATE
12/006435	OPELIA LYONOCHOLI OLINISIAG AMONE CKONE ONICOMDENSVIE
12/006532	FEEDSTOCK WITH A PARTITIONED VAPORIZATION UNIT
12/000332	PRPEARATION OF WIRES AND CABLES
12/009251	METHOD FOR REDUCING COKE AND OLIGOMER FORMATION IN A FURNACE
1 A IA BA 1 B B	PREPARATION OF ULTRA HIGH MOLECULAR WEIGHT LINEAR LOW
12/072175	DENSITY POLYETHYLENE
12/150724	OLEFIN POLYMERIZATION PROCESS
12/152053	METATHESIS PROCESS USING A MOVING PHASE REACTOR
12/156844	BIMODAL POLYETHYLENE PROCESS AND PRODUCTS
12/157300	EXTRACTIVE DISTILLATION

12/214910	FLARE GAS FLAMMABILITY CONTROL
10 20 000	PROCESS FOR THE PREPARATION OF MULTIMODAL POLYETHYLENE
12/218597	RESINS
10000011	PREPARATION OF ULTRA HIGH MOLECULAR WEIGHT LINEAR LOW
12/220941	DENSITY POLYETHYLENE
10001460	POLYETHYLENE THICK FILM AND PROCESS FOR PREPARING
12/231458 12/284486	POLYETHYLENE
12/284630	MODIFYING TUBULAR LDPE WITH FREE RADICAL INITIATOR
12/287449	POLYMER REMOVAL FROM A POLYMER MIXER
12/288360	IMPROVED MULTIMODAL POLYETHYLENE PIPE RESINS AND PROCESS
12/288471	MAR RESISTANT THERMOPLASTIC ALLOYS POLYOLEFIN-METAL LAMINATE
12/2004/1	
12/288826	POLYETHYLENE HAVING FASTER CRYSTALLIZATION RATE AND
12/290792	IMPROVED ENVIRONMENTAL STRESS CRACKING RESISTANCE OLEFIN POLYMERIZATION PROCESS
12/313336	METHOD FOR TIMING A POLYMER PUMP CONTAINING POLYMER
144713330	QUALITY ASSURANCE METHOD FOR OLEFIN POLYMERIZATION
12/313575	CATALYSTS
12/313576	PROCESS FOR MAKING ETHYLENE HOMOPOLYERS
12/315552	PREPARATION OF MULTIMODAL POLYETHYLENE
12/319486	PREPARATION OF POLYOLEFIN-BASED ADHESIVES
12/380455	EXTRUSION COATED ARTICLE
12/380519	POLYOLEFIN COMPOSITION HAVING IMPROVED OXIDATIVE STABILITY
12/383967	PROCESSING OF ACID CONTAINING HYDROCARBONS
12/383989	PROCESSING OF ACID CONTAINING HYDROCARBONS
12/383990	PROCESSING OF ACID CONTAINING HYDROCARBONS
12/387074	POLYETHYLENE PIPE RESINS
12/454778	FRACTIONAL EXTRACTION OF BUTADIENE
12/454780	PREPARATION OF POLYOLEFIN-BASED ADHESIVES
12/456,403	HEAT-SHRINKABLE FILM
12/456635	DOUBLE CONTAINMENT VALVE SYSTEM
	POLYETHYLENE COMPOSITIONS COMPRISING A POLAR PHENOLIC
	ANTIOXIDANT AND REDUCED DISSIPATION FACTOR, AND METHODS
12/460304	THEREOF
12/460621	CATALYSTS BASED ON 2-ARYL-8-ANILINOQUINOLINE LIGANDS
12/460628	METHOD OF PREPARING NON-METALLOCENE CATALYSTS
12/460640	METHOD OF PREPARING NON-METALLOCENE CATALYSTS
12/462021	METHOD FOR LOCATING THE SURFACE OF A POLYMER PARTICLE BED
12/462163	IMPROVED ADHESIVE COMPOSITIONS
12/583547	POLYOLEFIN COMPOSITION AND FILM THEREOF
12/587148	INDAZOLE-MODIFIED ZIEGLER-NATTA CATALYST SYSTEM
12/587186	NITROSO-MODIFIED ZIEGLER-NATTA CATALYST SYSTEM
12/587187	PYRIDIZINE-MODIFIED ZIEGLER-NATTA CATALYST SYSTEM
******	2-HYDROXYPYRIDINE N-OXIDE-MODIFIED ZIEGLER-NATTA CATALYST
12/587188	SYSTEM
	POLYOLEFIN-BASED ADHESIVES HAVING IMPROVED OXIDATIVE
12/590224	STABILITY
10/20000	PREPARATON OF MULTIMODAL, HIGH DENSITY, ETHYLENE
12/592900	HOMOPOLYMER BARRIER RESINS AND FILMS
12/655427	FILMS OF POLYETHYLENE BLENDS
12/655434	MULTILAYER STRUCTURES WITH COMMON TIE LAYER
12/658191	METHOD FOR PREPARING A ZIEGLER-NATTA CATALYST
12/658886	POLYOLEFIN NANOCOMPOSITES
12/658905	POLYETHYLENE COMPOSITION HAVING REDUCED WARPAGE IN MOLDED
12/660555	ARTICLES
14/000333	ACTIVATION OF MONOCYCLOPENTADIENYL GROUP 6 COMPLEXES

12/661,209	ADHESIVE COMPOSITION		
12/661237	DISTILLATION COLUMN CONTROL		
12/798120	RADIATION-CURABLE INSULATION COMPOSITION		
12/592663	BUTENE COPOLYMER-CONTAINING ADHESIVE BLENDS		
12/592701	IMPROVED ADHESIVE COMPOSITIONS		
Application Number not			
yet received	OLEFIN POLYMERIZATION CATALYSTS		
20 1 CTTT	MICROFINE PROPYLENE POLYMER POWDERS AND PROCESS FOR THEIR		
5246779	PREPARATION		
5371279	ACETIC ACID REMOVAL FROM LIQUID ETHER ACETATES		
£426261	MOISTURE CROSSLINKABLE FLAME RETARDANT COMPOSITONS FOR		
5430091	CABLE APPLICATIONS		
5486333	BLOW MOLDING EXTRUSION DIE WITH RECTANGULAR SLOTS		
5492760	WATER TREE RESISTANT, MOISTURE CURABLE INSULATION COMPOSITION		
3472700	FOR POWER CABLES		
	POLYERMIZATION CATALYSTS BASED ON TRANSITION METAL		
5539124	COMPLEXES WITH LIGANDS CONTAINING PYRROLYL RING		
5554775	(AZAMETALLOCENE POLYMERIZATION CATALYSTS)		
5637659	BORABENZENE BASED OLEFIN POLYMERIZATION CATALYSTS BORABENZENE BASED OLEFIN POLYMERIZATION CATALYSTS		
JUJ 10J /	POLYMERIZATION OF ALPHA-OLEFINS WITH TRANSITION METAL		
	CATALYSTS BASED ON BIDENTATE LIGANDS CONTAINING PYRIDINE OR		
5637660	QUINOLINE MOIETY  QUINOLINE MOIETY		
2027000	SEMICONDUCTIVE EXTRUDABLE POLYOLEFIN COMPOSITIONS AND		
5733480	ARTICLES		
2700,700	AZABOROLINYL METAL COMPLEXES AS OLEFIN POLYMERIZATION		
5902866	CATALYSTS COMMISSION OF THE POLYMERIZATION		
	PROCESS FOR THE MANUFACTURE OF ETHYLENE/VINYL ACETATE/VINYL		
5955538	ALCOHOL TERPOLYMER		
	POLYETHYLENE FILM COMPOSITION HAVING BROAD MOLECULAR WEIGHT		
5962598	DISTRIBUTION AND IMPROVED BUBBLE STABILITY		
	BORABENZENE BASED OLEFIN POLYMERIZATION CATALYSTS		
6034027 CONTAINING A GROUP 3-10 METAL			
	SUPPORTED SINGLE-SITE CATALYST AND OLEFIN POLYMERIZATION		
6040261	PROCESS		
6111160	PROCESS FOR ISOMERIZING LINEAR OLEFINS TO ISOOLEFINS		
6121183	MODIFIED POLYSILOXANE CATALYSTS AND METHOD OF USING THE SAME		
6127484	OLEFIN POLYMERIZATION PROCESS		
	PROCESS FOR PRODUCING POLYETHYLENE FILM COMPOSITION HAVING		
	BROAD MOLECULAR WEIGHT DISTRIBUTION AND IMPROVED BUBBLE		
6147167	STABILITY		
21 M 1 0 0 0	ENHANCED-IMPACT LLDPE WITH A SHEAR MODIFIABLE NETWORK		
6171993	STRUCTURE		
6184169	ETHYLENE POLYMERIZATION CATALYST AND CATALYST SYSTEM		
6194339	ETHYLENE POLYMERIZATION CATALYST AND CATALYST SYSTEM		
£1090E0	POLYOLEFIN CONCENTRATES AND COMPOSITIONS HAVING IMPROVED		
6197852	CARBON BLACK DISPERSION		
2001 NAC	OLEFIN POLYMERIZATION PROCESS WITH FATTY AMINE ADDITIVES FOR		
6201076 6204216	IMPROVED ACTIVITY AND REDUCED FOULING		
6211311	OLEFIN POLYMERIZATION CATALYSTS CONTAINING AMINE DERIVATIVES		
ULIIJII	SUPPORTED OLEFIN POLYMERIZATION CATALYST		
6228958	AZABOROLINYL METAL COMPLEXES AS OLEFIN POLYMERIZATION CATALYSTS		
6228959			
6232260	SINGLE-SITE CATALYSTS CONTAINING HOMOAROMATIC LIGANDS SINGLE-SITE CATALYSTS FOR OLEFIN POLYMERIZATION		
	QUINOLINOXY AND PYRIDINOXY SINGLE-SITE CATALYSTS CONTAINING		
want said s	A CONTINUE OF THE PROPERTY OF THE CATALYSTS CONTAINING		

	BENZYL LIGANDS
6255415	ETHYLENE POLYMERIZATION PROCESS
6265504	PREPARATION OF ULTRA-HIGH MOLECULAR WEIGHT POLYETHYLENE
6281308	OLEFIN POLYMERIZATION CATALYSTS CONTAINING AMINE DERIVATIVES
	SEMICONDUCTIVE POLYOLEFIN COMPOSITIONS AND CABLES COVERED
6299978	WITH THE SAME
6303842	(Amended) METHOD OF PRODUCING OLEFINS FROM PETROLEUM RESIDUA
6323384	PROCESS FOR ISOMERIZING LINEAR OLEFINS TO ISOOLEFINS
6326434	EXTRUSION COMPOSITIONS WITH IMPROVED MELT FLOW
	COATED POLYMERIC PARTICLES HAVING IMPROVED ANTI-BLOCK
	CHARACTERISTICS, METHOD OF MAKING SUCH PARTICLES, AND
6328798	APPARATUS THEREFOR
6329561	IMPURITIES REMOVAL
6355733	POLYETHYLENE BLENDS AND FILMS
6376629	SINGLE-SITE CATALYSTS FOR OLEFIN POLYMERIZATION
6392153	ELECTRICAL CONDUCTIVE ASSEMBLY
6392154	FAST CURING POLYMER COMPOSITION
6414162	BIMETALLIC CATALYSTS FOR OLEFIN POLYMERIZATION
	POLYOLEFIN INSULATION COMPOSITIONS HAVING IMPROVED OXIDATIVE
6469088	STABILITY
6486270	HIGH MOLECULAR WEIGHT, MEDIUM DENSITY POLYETHYLENE
	CHELATING PYRIMIDINES AS LIGANDS FOR SINGLE-SITE OLEFIN
6489414	POLYMERIZATION CATALYSTS
6498221	SINGLE-SITE CATALYSTS CONTAINING CHELATING N-OXIDE LIGANDS
6541583	POLYPROPYLENE PREPARATION
	OLEFIN POLYMERIZATION CATALYSTS CONTAINING CHELATING
6544918	DIANIONIC LIGANDS
6559251	PROCESS FOR MAKING LOW-DENSITY POLYOLEFINS
6566460	CONTINUOUS RECOVERY OF POLYMER FROM A SLURRY LOOP REACTOR
2 mm A 2 m	SINGLE-SITE CATALYSTS BASED ON ANIONIC THIOPYRAN DIOXIDE
6579957	LIGANDS
6583209	PROPYLENE POLYMER COMPOSITES HAVING IMPROVED MELT STRENGTH
6583240	ETHYLENE POLYMERIZATION PROCESS
6583242	SUPPORTED OLEFIN POLYMERIZATION CATALYSTS
/ FD / F 1 F	COMPLEXES BASED ON FOUR-MEMBERED CYCLIC ANIONIC SIX-
6586545	ELECTRON-DONOR LIGANDS
CENCONZ	OLEFIN POLYMERIZATION CATALYSTS CONTAINING 1,3-DIBORETANYL
6596826	LIGANDS
((000C)	IN-REACTOR PROCESS FOR MAKING ETHYLENE POLYMER
6602966	NANOCOMPOSITE MATERIALS
6613841	PREPARATION OF MACHINE DIRECTION ORIENTED POLYETHYLENE FILMS
	COATED POLYMERIC PARTICLES HAVING IMPROVED ANTI-BLOCK
6616968	CHARACTERISTICS, METHOD OF MAKING SUCH PARTICLES, AND APPARATUS THEREFOR
6620982	
0020392	METHOD OF PRODUCING PURIFIED CYCLOPENTANE
6630547	USE OF SILANES TO CONTROL MOLECULAR WEIGHT IN OLEFIN POLYMERIZATIONS
6635728	
0033120	PREPARATION OF ULTRA-HIGH-MOLECULAR-WEIGHT POLYETHYLENE USE OF SILANES TO ENHANCE ACTIVITY IN SINGLE-SITE
6642326	POLYMERIZATIONS
VV-1232V	PROCESS FOR MAKING POLYOLEFIN COMPOSITIONS CONTAINING
6646072	EXPOLIATED CLAY
6649698	POLYETHYLENE BLENDS
W#7747V	PROCESS FOR PRODUCING OLEFIN POLYMER COMPOSITES HAVING
6656995	IMPROVED MELT STRENGTH
6660678	SINGLE-SITE CATALYSTS FOR OLEFIN POLYMERIZATION
	AND STRUCTURE OF S

	CUMPARTED STATES TO SET A STATE OF THE STATE OF THE STATES
6673882	SUPPORTED SINGLE-SITE CATALYSTS USEFUL FOR OLEFIN POLYMERIZATION
6683150	HIGH MOLECULAR WEIGHT POLYPROPYLENE PROCESS
6689848	LATE TRANSITION METAL POLYMERIZATION CATALYSTS
6693154	TRANSITION METAL CATALYSTS FOR OLEFIN POLYMERIZATION
6693155	PROPYLENE POLYMERIZATION PROCESS
OQPJ LJJ	OLEFIN POLYMERIZATION PROCESS OLEFIN POLYMERIZATION CATALYSTS CONTAINING TRIQUINANE
6693157	LIGANDS
6710005	ALUMINOXANE MODIFICATION
0710005	OLEFIN POLYMERIZATION CATALYSTS BASED ON CONVEX, POLYCYCLIC
6713576	LIGANDS
0123310	ENHANCED-IMPACT LLDPE WITH A SHEAR MODIFIABLE NETWORK
6713585	STRUCTURE
6716928	GRAPTED PROPYLENE COPOLYMERS AND ADHESIVE BLENDS
0.103aV	CASCADED BOILING POOL REACTORS FOR PRODUCING
	WIND MODELLO I COLDINATE TOWN TON PRODUCENT
6716936	BIMODAL LOW TO MEDIUM DENSITY POLYETHYLENE POLYMERS
6727389	CYCLIC ORGANO-OXIDE STORAGE VENT SCRUBBING
6737487	POLYOLEFIN BLOCK COPOLYMERS
6743961	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL
	HIGH-TEMPERATURE SOLUTION PROCESS FOR POLYOLEFIN
6756455	MANUFACTURE
	ALUMINOBORONATE ACTIVATORS FOR SINGLE-SITE OLEFIN
6759361	POLYMERIZATION CATALYSTS
	TRANSITION METAL CATALYSTS CONTAINING BIDENTATE LIGANDS AND
6759493	METHOD OF USING AND REPARING SAME
	PREALKYLATED OLEFIN POLYMERIZATION CATALYSTS AND OLEFIN
6762255	POLYMERIZATION EMPLOYING SUCH CATALYSTS
6765074	OLEFIN POLYMERIZATION PROCESS
	OLEFIN POLYMERIZATION WITH PYRIDINE MOIETY-CONTAINING SINGLE-
6767975	SITE CATALYSTS
6768038	ALPHA OLEFIN PRODUCTION
6770715	HIGH MOLECULAR WEIGHT, MEDIUM DENSITY POLYETHYLENE
	OLEFIN POLYMERIZATION CATALYSTS BASED ON ANNULATED
6774078	CYCLOPENTADIENYL LIGANDS
6780395	SYNTHESIS GAS PRODUCTION
6780807	ACYCLIC ANIONIC SIX-ELECTRON-DONOR ANCILLARY LIGANDS
	PROCESS FOR THE IN-SITU PREPARATION OF SINGLE-SITE TRANSITION
6790805	METAL CATALYSTS AND POLYMERIZATION PROCESS
	TRANSITION METAL CATALYSTS CONTAINING BIDENTATE LIGNDS AND
6790918	METHOD OF USING AND PREPARING SAME
6794468	OLEFIN POLYMERIZATION PROCESS
	METHOD FOR PREPARING PROPYLENE POLYMERS HAVING BROAD
6800703	MOLECULAR WEIGHT DISTRIBUTION
4000.004	HIGH FLOW FILLED PROPYLENE POLYMER COMPOSITIONS HAVING
6803421	IMPROVED IMPACT AND DIMENSIONAL PROPERTIES
4410400	TRIPLE-DECKER CATALYSTS BASED ON DELOCALIZED DIANIONIC
6812183	LIGANDS
6818713	PROCESS FOR MAKING POLYETHYLENE
6824674	PYROLYSIS GASOLINE STABILIZATION
6835777	ADHESIVE COMPOSITIONS HAVING IMPROVED PERFORMANCE
6838410	CATALYSTS FOR MAKING POLYOLEFINS
£020£22	IMPROVED ADHESIVES FOR FLUOROPOLYMER FILMS AND STRUCTURES
6838520	CONTAINING SAME
6841500	BIMETALLIC INDENOINDOLYL CATALYSTS
6841506	POLYMERIZATION CATALYST SYSTEM CONTAINING POLYETHER-

	MODIETED ATTRONOVAND
6844389	MODIFIED ALUMINOXANE
0044303	ETHYLENE POLYMER COMPOSITIONS HAVING IMPROVED MELT STRENGTH
6844402	PREPARATION OF OLEFIN-ACRYLIC COPOLYMERS WITH LATE TRANSITION METAL CATALYSTS
6861485	MULTI-CATALYST SYSTEM FOR OLEFIN POLYMERIZATION
COLIGO	BIMETALLIC OLEFIN POLYMERIZATION CATALYSTS CONTAINING
6864210	INDIGOID LIGANDS
6872862	PROPYLENE PRODUCTION
6875829	SINGLE-SITE CATALYSTS CONTAINING CHELATING N-OXIDE LIGANDS
VV 1 W V W 2	CHELATING PYRIMIDINES AS LIGANDS FOR SINGLE-SITE OLEFIN
6875830	POLYMERIZATION CATALYSTS
00,000	OLEFIN POLYMERIZATION CATALYSTS CONTAINING TRIQUINANE
6875879	LIGANDS
***************************************	SUPPORTED CATALYSTS WHICH REDUCE SHEETING IN OLEFIN
	POLYMERIZATION, PROCESS FOR THE PREPARATION AND THE USE
6884749	THEREOF
6884834	SHEAR MODIFICATION OF HDPE-CLAY NANOCOMPOSITES
6884917	1-BUTENE PRODUCTION
6887070	FIRED FURNACE OPERATION AND APPARATUS
6894115	DUAL-FUNCTIONALIZED ADHESIVE COMPOSITIONS
6903169	LTMC POLYMERIZATION OF UNSATURATED MONOMERS
	OLEFIN POLYMERIZATION PROCESS USING TRIISOBUTYLALUMINUM AS A
6903170	SCAVENGER
6908972	METHOD FOR MAKING POLYOLEFINS
6908973	SINGLE-SITE CATALYSTS FOR OLEFIN POLYMERIZATION
	PROCESS FOR PRODUCING ACID FUNCTIONALIZED POLYOLEFINS AND
6914097	PRODUCTS
	CASCADED POLYOLEFIN SLURRY POLYMERIZATION EMPLOYING
6921804	DISENGAGEMENT VESSEL BETWEEN REACTORS
	PROCESS FOR REMOVAL OF INTERMEDIATE HYDROGEN FROM CASCADED
6924340	POLYOLEFIN SLURRY REACTORS
6927310	TRIPROPYLENE GLYCOL PRODUCTION
6930156	POLYMER BOUND SINGLE-SITE CATALYSTS
6933353	OLEFIN POLYMERIZATION PROCESS
6022264	ALUMINOBORONATE ACTIVATORS FOR SINGLE-SITE OLEFIN
6933354	POLYMERIZATION CATALYSTS
6936655	CROSSLINKABLE WIRE AND CABLE COMPOSITIONS HAVING IMPROVED ABRASION RESISTANCE
6936671	PROCESS FOR COPOLYMERIZING ETHYLENE WITH VINYLSILANES
0730071	HYDROSILANE ADDITIVES FOR INCREASED POLYOLEFIN MOLECULAR
6939930	WEIGHT
6948453	HYDROCARBON CRACKING
6949605	SOFT TOUCH POLYOLEFIN COMPOSITIONS
6949686	PYROLYSIS GASOLINE STABILIZATION
6958377	OLEFIN POLYMERIZATION PROCESS
6967231	OLEFIN POLYMERIZATION PROCESS
6977318	PROPYLENE PRODUCTION
05.70.00	PROCESS FOR MAKING POLYOLEFIN COMPOSITIONS CONTAINING
6979718	EXFOLIATED CLAY
***************************************	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL AND MILD
6979757	CONTROLLED CAVITATION ASSISTED CRACKING
-	OLEFIN POLYMERIZATION CATALYSTS BASED ON HYDROXYL-DEPLETED
6984599	CALIXARENE LIGANDS .
-	FLAME RETARDANT INSULATION COMPOSITION HAVING IMPROVED
6984677	SCORCH RESISTANCE
6995216	PROCESS FOR MANUFACTURING SINGLE-SITE POLYOLEFINS
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6995220	ETHYLENE POLYMERIZATION PROCESS
C000140	FLAME RETARDANT INSULATION COMPOSITIONS HAVING IMPROVED
6998443	ABRASION RESISTANCE
6998451	OLEFIN POLYMERIZATION PROCESS
7005489	ZWITTERIONIC METALLOCYCLES
7011892	PREPARATION OF POLYETHYLENE FILMS
ma 1 00ma	METHOD FOR PREPARING CYCLODEXTRIN-POLYOLEFIN BLENDS AND
7019073	PRODUCTS MADE THEREFROM
MA1A1 00	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL AND MILD CATALYTIC
7019187	CRACKING
7022785	DIIMINE COMPLEXES FOR OLEFIN POLYMERIZATION
700 E 41 E	CLATHROCHELATES AS OLEFIN POLYMERIZATION CATALYST
7026415	COMPONENTS
7030188	IMPROVED MULTI-PHASE POLYPROPYLENE COMPOSITIONS
7027070	PROCESS FOR INCREASING THE MELT STRENGTH OF EHTYLENE-VINYL
7037970	CARBOXYLATE COPOLYMERS
7041862	THERMAL CRACKING OF DIELS-ALDER ADDUCTS
7043938 7049262	METHOD OF THAWING A CRYOGENIC UNIT
1049202	CRYOGENIC METHOD FOR FORMING A SUPPORTED CATALYST
7056097	SYSTEM AND METHOD FOR MONITORING THE MECHANICAL CONDITION
1030071	OF A RECIPROCATING COMPRESSOR
7071259	FUNCTIONALIZED PROPYLENE POLYMER COMPOSITIONS AND COMPOSITES CONTAINING SAME
7074976	PROPYLENE PRODUCTION
7078081	PREPARATION OF POLYETHYLENE FILMS
7078362	CARBENE DONOR-MODIFIED ZIEGLER-NATTA CATALYSTS
7070302	OLEFIN POLYMERIZATION PROCESS
7071271	CATALYSTS CONTAINING AT LEAST ONE HETEROCYCLIC LIGAND FOR
7094723	IMPROVING THE CATALYSTS' PERFORMANCE OF OLEFIN POLYMERIZATION
7122497	OLEFIN POLYMERIZATION CATALYST
* * **********************************	ADHESIVE COMPOSITION HAVING IMPROVED CLARITY FOR COEXTRUDED
7125929	BARRIER FILMS
	OLEFIN POLYMERIZATION WITH POLYMER BOUND SINGLE-SITE
7125939	CATALYSTS
	SOLUTION POLYMERIZATION PROCESS UTILIZING PREASSEMBLED
7144964	BIMETALLIC ZIEGLER-NATTA CATALYST
	PROCESS FOR NARROWING SHORT-CHAIN BRANCHING DISTRIBUTION IN
7151145	TWO-STEP ETHYLENE POLYMERIZATIONS AND PRODUCTS
7183348	SHEAR MODIFICATION OF POLYOLEFIN-CLAY NANOCOMPOSITES
7189675	OLEFIN POLYMERIZATION CATALYST ON PLASMA-CONTACTED SUPPORT
	OLEFIN POLYMERIZATION PROCESS WITH IMPROVED OPERABILITY AND
7196147	POLYMER PROPERTIES
	POLYMER RESINS WITH IMPROVED ENVIRONMENTAL STRESS CRACK
7230054	RESISTANCE
7230056	IMPROVED CATALYST PREPARATION METHOD
7232604	FLAME RETARDANT CROSSLINKABLE COMPOSITIONS AND ARTICLES
	SOLID STATE PROCESS TO MODIFY THE MELT CHARACTERISTICS OF
7238754	POLYETHYLENE RESINS AND PRODUCTS
	IMPROVED HIGH DENSITY POLYETHYLENE AND INSULATION
7238765	COMPOSITIONS FOR WIRE AND CABLE
7270740	STARTUP OF AN OLEFINS PRODUCTION PLANT
7273914	OLEFIN POLYMERIZATION METHODS
7326823	AROMATIC COMPOUND RECOVERY
	CELLULOSIC-REINFORCED COMPOSITES HAVING INCREASED RESISTANCE
7348371	TO WATER ABSORPTION
7348466	SOLVENT EXTRACTION

7274661	THE POST AND A COURSE		
7374661	THERMAL CRACKING		
7374664	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL FEEDSTOCK		
900E1 CA	FILLED PROPYLENE POLYMER COMPOSITIONS HAVING IMPROVED MELT		
7375162 7396449	STRENGTH		
/370447	OLEFIN PRODUCTION UTILIZING CONDENSATE FEEDSTOCK		
700000	PROCESS FOR REMOVAL OF INTERMEDIATE HYDROGEN FROM CASCADED		
7396892	POLYOLEFIN SLURRY REACTORS		
7700000	MODIFYING POLYETHYLENE MADE BY ZIEGLE OR SINGLE-SITE CATALYST		
7399809	WITH FREE RADICAL INITIATOR		
7402546	MAGNESIUM CHLORIDE SUPPORT		
7404889	HYDROCARBON THERMAL CRACKING USING ATMOSPHERIC DISTILLATION		
7423098	POLYETHYLENE PROCESS		
710000	PREPARATION OF ULTRA HIGH MOLECULAR WEIGHT LINEAR LOW		
7429635	DENSITY POLYETHYLENE		
7439290	LINEAR LOW DENSITY POLYETHYLENE COMPOSITIONS AND FILMS		
7456241	ADHESIVE BLEND POWDERS		
7473745	PREPARATION OF MULTIMODAL POLYETHYLENE		
7473746	LTMC POLYMERIZATION OF UNSATURATED MONOMERS		
	RESIDENCE TIME DISTRIBUTION METHOD AND APPARATUS FOR		
7401020	OPERATING A CURVILINEAR PRESSURE VESSEL WHERE TRANSPORT		
7491259 7491368	PHENOMENA TAKE PLACE		
7493800	METHOD FOR TEMPORARY CLOSING AND REOPENING OF A REACTOR TUBE		
7528185	SAMPLING METHOD		
/340103	WHITE POLYOLEFIN COMPOSITIONS HAVING REDUCED DIRE		
7531024	PLUG-FLOW METHOD AND APPARATUS FOR OPERATING A CURVILINEAR		
7538173	PRESSURE VESSEL WHERE TRANSPORT PHENOMENA OCCUR		
7550638	POLYOLEFIN COMPOSITIONS		
1220020	INTEGRATED CRACKING AND METATHESIS PROCESS		
7550642	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL/CONDENSATE		
7571890	FEEDSTOCK WITH ENHANCED DISTILLATE PRODUCTION VALVE CONSTRUCTION AND METHOD OF USE		
7572366	METHOD FOR PROCESSING NATURAL GAS		
7601787	ETHYLENE POLYMERIZATION PROCESS		
7608327	HIGH TEAR STRENGTH FILM		
7614613			
7632900	METHOD OF OPERATING A COOLING FLUID SYSTEM LUBRICATING OIL		
7638584	OLEFIN POLYMERIZATION PROCESS		
7638586	OLEFIN FOLYMERIZATION PROCESS  OLEFIN POLYMERIZATION PROCESS		
7638597			
7655740	REMOVAL OF METAL CONTAMINANTS FROM POLYETHYLENE OLEFIN POLYMERIZATION PROCESS		
7659346			
7666960	PROCESS FOR MALEATING POLYMERIZATION RESIDUES AND PRODUCTS		
7666961	IMPROVED PROCESS FOR THE PRODUCTION OF ETHYLENE COPOLYMERS OLEFIN POLYMERIZATION PROCESS		
7671151	OLEFIN POLYMERIZATION PROCESS		
7687575	PROPYLENE ELASTOMER-CONTAINING ADHESIVE BLENDS		
7709585	ETHYLENE RECOVERY FROM A POLYMERIZATION PROCESS		
7709693	TOLUENE PRODUCTION		
, 147474	LOUGH TROUGHTON		
	PATENTS OWNED BY LYONDELLBASELL ACETYLS, LLC		
	PRETREATMENT OF PALLADIUM-GOLD CATALYSTS USEFUL IN VINYL		
5194417	ACETATE SYNTHESIS		
	PRETREATMENT OF PALLADIUM-GOLD CATALYSTS USEFUL IN VINYL		
5336802	ACETATE SYNTHESIS		
6031129	USE OF PENTAVALENT GROUP VA OXIDES IN ACETIC ACID PROCESSING		

PATENTS OWNED BY LYONDELLBASELL ACETYLS, LLC

	IMPROVED PROCESS FOR THE PRODUCTION OF SUPPORTED PALLADIUM-
6022823	GOLD CATALYSTS
6103934	MANUFACTURING AND PROCESS CONTROL METHODS
6362366	MANUFACTURING AND PROCESS CONTROL METHODS  MANUFACTURING AND PROCESS CONTROL METHODS
6420595	
6552221	PROCESS CONTROL FOR VINYL ACETATE MANUFACTURE
0332221	PROCESS CONTROL FOR ACETIC ACID MANUFACTURE
PATENT APPLI	ications and patents owned by Lyondellbasell flavors &
	Fragrances, LLC
	PHYSIOLOGICAL COOLANTS BASED ON LACTOYL ESTERS OF MENTHYL
11/974575	LACTATE
	A PROCESS FOR SEPARATING TERTIARY ALCOHOLS FROM SECONDARY
12/317874	ALCOHOLS FROM PINE OIL
12/317878	A PROCESS FOR PREPARING ALICYCLIC CARBOXYLIC ACID COMPOUNDS
12/386712	PROCESS FOR MAKING MENTHYL GLUTARATE
Application Number not	
yet received	PROCESS FOR MAKING trans-ISOCARVEOL
Application Number not	
yet received	PROCESS FOR MAKING PERILLYL ALCOHOL
6114565	PROCESS FOR OBTAINING NITRILES
6423874	PROCESS FOR OBTAINING FRAGRANT KETONE
6482983	PROCESS FOR OBTAINING N-MONOSUBSTITUTED AMIDES
6515186	PROCESS FOR OBTAINING ALPHA-CAMPHOLENIC ALDEHYDE
	CATALYST SYSTEM AND PROCESS FOR REARRANGEMENT OF EPOXIDES TO
6835686	ALLYLIC ALCOHOLS
	METHOD FOR PREPARATION OF ALPHA, BETA-UNSATURATED CYCLIC
<b>6884</b> 913	KETONES BY DEHYDRATION OF SECONDARY ALLYLIC CYCLIC ALCOHOLS
7173146	MENTHYL LACTATE PROCESS
	PHYSIOLOGICAL COOLING COMPOSITIONS CONTAINING HIGHLY PURIFIED
	ETHYL ESTER OF N-[[5-METHYL-2-(1-METHYLETHYL)CYCLOHEXYL]
7189760	CARBONYLIGLYCINE
7247743	PROCESS FOR MAKING MONOMENTHYL ESTERS
	PROCESS FOR MAKING INTERMEDIATES FOR FRAGRANCE COMPONENTS
7262329	FROM -CAMPHOLENIC ALDEHYDE
7355066	PROCESS FOR MAKING TERPENE ESTERS
7381834	METHOD FOR STABILIZING MENTHYL LACTATE
7446221	PROCESS FOR MAKING TRICYCLODECENYL ESTERS
7482378	PHYSIOLOGICAL COOLING COMPOSITIONS
7560598	FRAGRANCE COMPOSITIONS FROM TERTIARY TERPENE ALCOHOLS
	A PROCESS FOR SEPARATING TERTIARY ALCOHOLS FROM SECONDARY
7589241	ALCOHOLS FROM PINE OIL
7652067	AQUEOUS COMPOSITIONS CONTAINING MONOESTER SALTS
7655816	METHOD FOR STABILIZING MENTHYL LACTATE
	: <del></del>

# ANNEX B

# TRADEMARKS AND SERVICE MARKS

Annex B

# Schedule 11(a)

# Patents and Trademarks

# Schedule 11(a), Part 1A - United States Trademarks

Country Name	Trademarks	Reg. No.	Record Owner
		(App. No.)	
United States of	EQUISTAR	2352343	Equistar Chemicals, L.P
America			
United States of	STARFLEX	3399585	Equistar Chemicals, LP
America			
United States of	ALATHON	0543580	Equistar Chemicals, LP
America			·
United States of	EQUISTAR	2278210	Equistar Chemicals, LP
America			
United States of	FILMEX	1241723	Equistar Chemicals, LP
America			
United States of	FILMEX	0391698	Equistar Chemicals, LP
America			The state of the s
United States of	FLEXATHENE	2091638	Equistar Chemicals, LP
America			
United States of	INTEGRATE	2946794	Equistar Chemicals, LP
America			·
United States of	ISOMPLUS	1902244	Equistar Chemicals, LP
America			
United States of	MICROTHENE	0715595	Equistar Chemicals, LP
America			,
United States of	PETROTHENE	0718049	Equistar Chemicals, LP
America			
United States of	PETROTHENE	D611277	Equistar Chemicals, LP
America			
United States of	PLEXAR	1413868	Equistar Chemicals, LP
America			
United States of	PUNCTILIOUS	1001381	Equistar Chemicals, LP
America			
United States of	ULTRATHENE	0783813	Equistar Chemicals, LP
America			,
Jnited States of	ULTRATHENE	0764486	Equistar Chemicals, LP
America			
Jnited States of	CRYSTEX	3358914	Houston Refining LP
America			
Inited States of	AQUAMARINE	2154250	Houston Refining LP
\merica			

Country Name	Trademarks	Reg. No.	Record Owner
		(App. No.)	1. 英典,"我
United States of	DUOPAC	1779448	Houston Refining LP
America			
United States of	DUOPRIME	1797191	Houston Refining LP
America			
United States of	IDEAL	3205624	Houston Refining LP
America			
United States of	TUFFLO	1544129	Houston Refining LP
America			
United States of	ARCTIC SHIELD	3400194	Lyondell Chemical Company
America			
United States of	ARCTIC PLUS	2973703	Lyondeli Chemical Company
America			
United States of	EXPLORE &	2958099	Lyondell Chemical Company
America	EXPERIMENT		
United States of	LYONDELL	3046814	Lyondell Chemical Company
America			
United States of	POLYMEG	1471844	Lyondell Chemical Company
America			
United States of	Cube Design	2520539	Lyondell Chemical Company
America			
United States of	MPDIOL	2302182	Lyondell Chemical Properties, L.P.
America			
United States of	T-HYDRO	1301087	Lyondell Chemical Properties, L.P.
America			
United States of	TEBOL	1314158	Lyondell Chemical Properties, L.P.
America			
United States of	GLIDOX	3075207	LyondellBasell Flavors & Fragrances,
America			LLC
United States of	GLIDSOL	3033642	LyondeliBaseli Flavors & Fragrances,
America ,			LLC
United States of	NAVACET	77/141246	LyondeliBaseli Flavors & Fragrances,
America			LLC
United States of	TETRALOL	1428029	LyondeliBaseli Flavors & Fragrances,
America		- Carriero	LC
United States of	WINSENSE	3111961	LyondellBasell Flavors & Fragrances,
America			LLC

# ANNEX C

### **COPYRIGHTS**

Annex C

### Schedule 11(b)

### Copyrights

### UNITED STATES COPYRIGHTS

Relief valve inspection frequency tool" owned by Equistar Chemicals, L.P., Reg. No. TXu001257329, registered on 9/19/2005.

OTHER COPYRIGHTS

None

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