### 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
CITIBANK, N.A.		10/18/2013	National Association:

### **RECEIVING PARTY DATA**

Name:	Houston Refining 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: 6

Property Type	Number	Word Mark
Registration Number:	1544129	TUFFLO
Registration Number:	1797191	DUOPRIME
Registration Number:	1779448	DUOPAC
Registration Number:	2154250	AQUAMARINE
Registration Number:	3358914	CRYSTEX
Registration Number:	3205624	IDEAL

#### **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

TRADEMARK REEL: 005212 FRAME: 0566 1544129

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Address Line 4: Houston, TEXAS 77010		
ATTORNEY DOCKET NUMBER:	CITIBANK_HOUSTONREFINING	
NAME OF SUBMITTER:	Jason P. Sander	
Signature:	/Jason P. Sander/	
Date:	02/07/2014	
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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 18, 2013 and granted by CITIBANK, N.A. (the "Collateral Agent"), as administrative agent and collateral agent for the secured parties under the Credit Agreement referred to below (the "Secured Parties"), in favor of LYONDELL CHEMICAL COMPANY, a Delaware corporation; 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, the borrowers party thereto, each lender party thereto from time to time, the other parties thereto and the Collateral Agent entered into that certain Senior Secured Asset-Based Credit Agreement, dated as of April 8, 2010 (the "Credit Agreement");

WHEREAS, in connection with the Credit Agreement, 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 accomplish and evidence the release and reassignment of any and all right, title and interest the Collateral Agent and the Secured Parties may have in the IP Collateral (as defined herein) pursuant to the Security Agreements.

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. Release of Security Interest. The Collateral Agent, on behalf of itself and the Secured Parties, their successors, legal representatives and assigns, terminates, releases and discharges its security interest in and to the IP Collateral, and all other right, title, and interest in and to the IP Collateral and reassigns to the Grantors any and all such right, title and interest that it may have in the IP Collateral.
- 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]

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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.

CITIBANK, N.A. as Collateral Agent

Name:

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### 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
10/86 <b>7</b> 507	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 PRODUCTION
	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
20.201	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
************	PEMOVING DVDDAY ADDAY IN IN INTITIO TO A A COMO A COMO A COMO
12/383896	REMOVING HYDROCARBON IMPURITIES FROM ACETIC ACID PRODUCTION INTERMEDIATE
12/383904	
12/454156	EXTRACTIVE DISTILLATION OF CONJUGATED DIENE HYDROFORMYLATION PROCESS
12/456,090	
12/459065	DIRECT EPOXIDATION USING MODIFIERS
12/47202	EPOXIDATION PROCESS
12/460225	PROCESS FOR MAKING GLYCOL ETHER COMPOSITIONS USEFUL FOR METAL RECOVERY
1 & 400 C Z	VECOAEW I

12/460227	PASSIVATION OF THERMAL CRACKING FURNACE CONDUIT
12/586637	STEAM CRACKING PROCESS
12/586966	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
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	PROCESSING OF ACID CONTAINING HYDROCARBONS
12/798195	CATALYTIC HYDROGENATION PROCESS
12/798297	PURIFICATION OF PROPYLENE OXIDE
12/798598	PREPARATION OF ACETIC ACID
£00.£00.4	METHOD FOR CONVERTING LIGHT HYDROCARBONS TO OLEFINS, GASOLINE AND
5026934	METHANOL OLD THE COLUMN TO COLUMN THE COLUMN
5300718	OLEFIN CONVERSION PROCESS
5039508 5043481	PRODUCTION OF HYDROGEN PEROXIDE
	CYCLOHEXANE OXIDATION
5043522 5107050	PRODUCTION OF OLEFINS
5146034	OLEFIN SKELETAL ISOMERIZATION
5140034 5162593	CONVERSION OF PARAFFINS TO OLEFINS
5166370	TERTIARY BUTYL ALCOHOL PREPARATION
5171868	PREPARATION OF TETRAHYDROFURAN USING A SUPPORTED TRANSITION METAL
5171921	EPOXIDATE TREATMENT
5198590	PRODUCTION OF OLEFINS
5202463	HYDROCARBON CONVERSION
3202403	PROCESS FOR THE PREPARATION OF A GLYCOL ETHER ESTER
5208194	RECOVERY OF GROUP VIII TRANSITION METALS FROM ORGANIC SOLUTIONS USING ACIDIC ION-EXCHANGE RESINS
3200134	DEIDRA ACIDIC ION-EACHANGE RESINS
	PREPARATION OF TETRAHYDROFURAN POLYMERS HAVING A NARROW
5208385	MOLECULAR WEIGHT DISTRIBUTION USING AN AMORPHOUS SILICA-ALUMINA CATALYST
5233093	
5239007	HYDROFORMYLATION PROCESS AND BIMETALLIC CATALYST THEREFOR
5262371	OIL-ABSORBENT COMPOSITIONS
5276210	ALKYLENE OXIDE ISOMERIZATION PROCESS AND CATALYST
J&/U&IV	HYDROFORMYLATION PROCESS AND BIMETALLIC CATALYST THEREFOR
5276235	RESIDUAL STREAM UPGRADING IN A PROPYLENE OXIDE-STYRENE MONOMER PROCESS
J& 1 V&J J	
5290743	PROCESS FOR REGENERATING A DEACTIVATED RHODIUM HYDROFORMYLATION CATALYST SYSTEM
5292974	
5308365	ALKYLENE OXIDE ISOMERIZATION PROCESS AND CATALYST DIESEL FUEL
5312998	
JJ16770	INTEGRATED PROCESS FOR THE PRODUCTION OF DITERTIARY BUTYL PEROXIDE

5314511	DIESEL 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
5512642	PROCESS FOR MAKING VINYL AROMATIC/ALLYLIC ALCOHOL COPOLYMERS
5525693	HYDROXY-FUNCTIONAL ACRYLATE RESINS
	REMOVAL OF PRIMARY AND SECONDARY HYDROPEROXIDE IMPURITIES FROM
5554796	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
F886842	EPOXIDATION PROCESS USING SUPPORTED SILVER CATALYSTS PRETREATED
5770746	WITH ORGANIC CHLORIDE
5840933	CATALYTIC CONVERTER SYSTEM AND PROCESS
E940027	EPOXIDATION PROCESS USING SERIALLY CONNECTED CASCADE OF FIXED BED
5849937	REACTORS
5849938 5863391	SEPARATION OF METHANOL AND PROPYLENE OXIDE FROM A REACTION MIXTURE
	PURIFICATION OF A METHANOL STREAM
5866714 5877372	ESTER PREPARATION
5883268	SELECTIVE OLEFIN OLIGOMERIZATION
1003200	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
5994578	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	SELECTIVE OLEFIN OLIGOMERIZATION
6383966	HETEROGENEOUS EPOXIDATION CATALYST
6399794 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
O+1/412	PURIFICATION OF TERTIARY BUTYL ALCOHOL
6441203	DIRECT EPOXIDATION PROCESS USING A PALLADIUM ON NIOBIUM-CONTAINING SUPPORT
6441204	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
6455657	DIRECT EFVALUATION FROM SIGNATURE CATALYST SYSTEM
6478930	PREPARATION OF VINYL AROMATIC-ALLYLIC ALCOHOL COPOLYMERS IMPURITIES SEPARATION BY DISTILLATION
6498259	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
6500311	PROPYLENE OXIDE PURIFICATION
www.d.s.	PROCESS FOR MAKING CROSSLINKED POLYVINYLPYRROLIDONE WITH LOW
6512066	SWELL VOLUME
6512129	EPOXIDATION PROCESS

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
COCOC#1	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
6977282	PREPARATION OF DICYCLOPENTADIENE-CONTAINING UNSATURATED POLYESTERS
6982337	
6984606	PROCESS FOR MAKING N-VINYL-2-PYRROLIDONE EPOXIDATION CATALYST
0704000	REMOVAL OF PROPYLENE GLYCOL AND PROPYLENE GLYCOL ETHERS FROM
7002026	AQUEOUS STREAMS
7012167	DIISOBUTYLENE PROCESS
7022885	PURIFICATION OF METHYL TERTIARY BUTYL ETHER
7026492	DIRECT EPOXIDATION PROCESS USING MODIFIERS
1020-72	OXIDATION PROCESS WITH IN-SITU H202 GENERATION AND POLYMER-
7030255	ENCAPSULATED CATALYSTS THEREFOR
7045639	METHOD FOR PURIFYING N-(2-HYDROXYETHYL)-2-PYRROLIDONE
7057056	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

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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
,0,0,0,	PROCESS FOR DIRECT OXIDATION OF PROPYLENE TO PROPYLENE OXIDE AND
7399726	LARGE PARTICLE SIZE TITANIUM SILICALITE CATALYSTS FOR USE THEREIN
7414164	DIISOBUTYLENE 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
	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
7550065	METHOD FOR RECOVERING SOLVENTS
7550610	DIRECT EPOXIDATION PROCESS
7563740	DIRECT EPOXIDATION PROCESS
7575604	DRYCLEANING METHOD
7595410	DIRECT EPOXIDATION PROCESS USING IMPROVED CATALYST COMPOSITION
7612241	HYDROFORMYLATION PROCESS
7615654	DIRECT EPOXIDATION PROCESS
	MULTIPHASE REACTOR DESIGN INCORPORATING FILTRATION SYSTEM FOR FIXED.
7642365	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
	PURIFICATION OF UNSATURATED HYDROCARBON STREAMS CONTAINING
5081325	STYRENICS
5120894	OLEFIN CONVERSION PROCESS
	PROCESS FOR REMOVING ALDEHYDES AND/OR VINYL ESTERS FROM GASEOUS OR
5157205	LIQUID PROCESS STREAMS

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

7485749	PREPARATION OF ACETIC ACID
7524988	PREPARATION OF ACETIC ACID

PATENT APPLICAT	TIONS AND PATENTS OWNED BY LYONDELL CHEMICAL TECHNOLOGY, L.P., AND EQUISTAR CHEMICALS, LP
12/316829	CATALYST REGENERATION METHOD
12/583313	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
	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	MDO MULTILAYER POLYETHYLENE FILM
0 # A00 4 mm. 0 4	IMPROVING BARRIER PROPERTIES OF SUBSTANTIALLY LINEAR HDPE FILM
11/717944	WITH NUCLEATING AGENTS
11/799907	DYNAMIC SEAL ASSEMBLY
	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
11/7/627/	
12/006370	IMPROVED TIE-LAYER ADHESIVES FOR STYRENE POLYMERS AND
12/000370	ARTICLES
10000000	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL/CONDENSATE
12/006435	FEEDSTOCK WITH A PARTITIONED VAPORIZATION UNIT
12/006532	PRPEARATION OF WIRES AND CABLES
12/009251	METHOD FOR REDUCING COKE AND OLIGOMER FORMATION IN A FURNACE
	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
	PROCESS FOR THE PREPARATION OF MULTIMODAL POLYETHYLENE
12/218597	RESINS
	PREPARATION OF ULTRA HIGH MOLECULAR WEIGHT LINEAR LOW
12/220941	DENSITY POLYETHYLENE
*****	POLYETHYLENE THICK FILM AND PROCESS FOR PREPARING
12/231458	POLYETHYLENE
12/284486	MODIFYING TUBULAR LDPE WITH FREE RADICAL INITIATOR
12/284630	POLYMER REMOVAL FROM A POLYMER MIXER
12/287449	IMPROVED MULTIMODAL POLYETHYLENE PIPE RESINS AND PROCESS
12/288360	MAR RESISTANT THERMOPLASTIC ALLOYS
12/288471	POLYOLEFIN-METAL LAMINATE
12/288826	POLYETHYLENE HAVING FASTER CRYSTALLIZATION RATE AND
12/290792	IMPROVED ENVIRONMENTAL STRESS CRACKING RESISTANCE
12/290792	OLEFIN POLYMERIZATION PROCESS
12/313330	METHOD FOR TIMING A POLYMER PUMP CONTAINING POLYMER
12/313575	QUALITY ASSURANCE METHOD FOR OLEFIN POLYMERIZATION
12/313576	CATALYSTS  BROOKES FOR MAKING PETERS FOR MORAL CONSTRUCTION
12/315570	PROCESS FOR MAKING ETHYLENE HOMOPOLYERS
12/319486	PREPARATION OF MULTIMODAL POLYETHYLENE
12/380455	PREPARATION OF POLYOLEFIN-BASED ADHESIVES EXTRUSION COATED ARTICLE
12/380519	
12/383967	POLYOLEFIN COMPOSITION HAVING IMPROVED OXIDATIVE STABILITY
12/383989	PROCESSING OF ACID CONTAINING HYDROCARBONS PROCESSING OF ACID CONTAINING HYDROCARBONS
12/383990	PROCESSING OF ACID CONTAINING HYDROCARBONS 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
124 42 QQQQ	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
and war wants o	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
	POLYETHYLENE COMPOSITION HAVING REDUCED WARPAGE IN MOLDED
12/658905	ARTICLES
12/660555	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		
	MICROFINE PROPYLENE POLYMER POWDERS AND PROCESS FOR THEIR		
5246779	PREPARATION		
5371279	ACETIC ACID REMOVAL FROM LIQUID ETHER ACETATES		
	MOISTURE CROSSLINKABLE FLAME RETARDANT COMPOSITONS FOR		
5430091	CABLE APPLICATIONS		
5486333	BLOW MOLDING EXTRUSION DIE WITH RECTANGULAR SLOTS		
	WATER TREE RESISTANT, MOISTURE CURABLE INSULATION COMPOSITION		
5492760	FOR POWER CABLES		
	POLYERMIZATION CATALYSTS BASED ON TRANSITION METAL		
	COMPLEXES WITH LIGANDS CONTAINING PYRROLYL RING		
5539124	(AZAMETALLOCENE POLYMERIZATION CATALYSTS)		
5554775	BORABENZENE BASED OLEFIN POLYMERIZATION CATALYSTS		
5637659	BORABENZENE BASED OLEFIN POLYMERIZATION CATALYSTS		
	POLYMERIZATION OF ALPHA-OLEFINS WITH TRANSITION METAL		
	CATALYSTS BASED ON BIDENTATE LIGANDS CONTAINING PYRIDINE OR		
5637660	QUINOLINE MOIETY		
	SEMICONDUCTIVE EXTRUDABLE POLYOLEFIN COMPOSITIONS AND		
5733480	ARTICLES		
	AZABOROLINYL METAL COMPLEXES AS OLEFIN POLYMERIZATION		
5902866	CATALYSTS		
	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		
	ENHANCED-IMPACT LLDPE WITH A SHEAR MODIFIABLE NETWORK		
6171993	SIRUCTURE		
6184169	ETHYLENE POLYMERIZATION CATALYST AND CATALYST SYSTEM		
6194339	ETHYLENE POLYMERIZATION CATALYST AND CATALYST SYSTEM		
	POLYOLEFIN CONCENTRATES AND COMPOSITIONS HAVING IMPROVED		
	CARBON BLACK DISPERSION		
	OLEFIN POLYMERIZATION PROCESS WITH FATTY AMINE ADDITIVES FOR		
6201076	IMPROVED ACTIVITY AND REDUCED FOULING		
6204216	OLEFIN POLYMERIZATION CATALYSTS CONTAINING AMINE DERIVATIVES		
6211311	SUPPORTED OLEFIN POLYMERIZATION CATALYST		
	AZABOROLINYL METAL COMPLEXES AS OLEFIN POLYMERIZATION		
6228958	CATALYSTS		
6228959	SINGLE-SITE CATALYSTS CONTAINING HOMOAROMATIC LIGANDS		
6232260	SINGLE-SITE CATALYSTS FOR OLEFIN POLYMERIZATION		
6239239	QUINOLINOXY AND PYRIDINOXY SINGLE-SITE CATALYSTS CONTAINING		
	THE TAXABLE TO A SECOND		

	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			
	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			
	COMPLEXES BASED ON FOUR-MEMBERED CYCLIC ANIONIC SIX-			
6586545	ELECTRON-DONOR LIGANDS			
	OLEFIN POLYMERIZATION CATALYSTS CONTAINING 1,3-DIBORETANYL			
6596826	LIGANDS			
	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			
	CHARACTERISTICS, METHOD OF MAKING SUCH PARTICLES, AND			
6616968	APPARATUS THEREFOR			
6620982	METHOD OF PRODUCING PURIFIED CYCLOPENTANE			
	USE OF SILANES TO CONTROL MOLECULAR WEIGHT IN OLEFIN			
6630547	POLYMERIZATIONS			
6635728	PREPARATION OF ULTRA-HIGH-MOLECULAR-WEIGHT POLYETHYLENE			
	USE OF SILANES TO ENHANCE ACTIVITY IN SINGLE-SITE			
6642326	POLYMERIZATIONS			
	PROCESS FOR MAKING POLYOLEFIN COMPOSITIONS CONTAINING			
6646072	EXFOLIATED CLAY			
6649698	POLYETHYLENE BLENDS			
	PROCESS FOR PRODUCING OLEFIN POLYMER COMPOSITES HAVING			
6656995	IMPROVED MELT STRENGTH			
6660678	SINGLE-SITE CATALYSTS FOR OLEFIN POLYMERIZATION			

6673882	SUPPORTED SINGLE-SITE CATALYSTS USEFUL FOR OLEFIN POLYMERIZATION			
6683150	HIGH MOLECULAR WEIGHT POLYPROPYLENE PROCESS			
6689848	LATE TRANSITION METAL POLYMERIZATION CATALYSTS			
6693154				
6693155	TRANSITION METAL CATALYSTS FOR OLEFIN POLYMERIZATION PROPYLENE POLYMERIZATION PROCESS			
0033133	OLEFIN POLYMERIZATION CATALYSTS CONTAINING TRIQUINANE			
6693157	LIGANDS			
6710005	ALUMINOXANE MODIFICATION			
0/10003				
6713576	OLEFIN POLYMERIZATION CATALYSTS BASED ON CONVEX, POLYCYCLIC LIGANDS			
0/135/0	ENHANCED-IMPACT LLDPE WITH A SHEAR MODIFIABLE NETWORK			
6713585	STRUCTURE			
6716928	GRAFTED PROPYLENE COPOLYMERS AND ADHESIVE BLENDS			
0.10720	CASCADED BOILING POOL REACTORS FOR PRODUCING			
	CARCADED BOTHING LOOP VEWCTOWS LOW LWORDCHARD			
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			
	HIGH FLOW FILLED PROPYLENE POLYMER COMPOSITIONS HAVING			
6803421	IMPROVED IMPACT AND DIMENSIONAL PROPERTIES			
	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			
	IMPROVED ADHESIVES FOR FLUOROPOLYMER FILMS AND STRUCTURES			
6838520	CONTAINING SAME			
6841500	BIMETALLIC INDENOINDOLYL CATALYSTS			
6841506	POLYMERIZATION CATALYST SYSTEM CONTAINING POLYETHER-			

£0.44000	MODIFIED ALUMINOXANE		
6844389	ETHYLENE POLYMER COMPOSITIONS HAVING IMPROVED MELT STRENGTH		
<b>49.4.4.09</b>	PREPARATION OF OLEFIN-ACRYLIC COPOLYMERS WITH LATE TRANSITION		
6844402	METAL CATALYSTS		
6861485	MULTI-CATALYST SYSTEM FOR OLEFIN POLYMERIZATION		
COC 4010	BIMETALLIC OLEFIN POLYMERIZATION CATALYSTS CONTAINING		
6864210	INDIGOID LIGANDS		
6872862	PROPYLENE PRODUCTION		
6875829	SINGLE-SITE CATALYSTS CONTAINING CHELATING N-OXIDE LIGANDS		
/002000	CHELATING PYRIMIDINES AS LIGANDS FOR SINGLE-SITE OLEFIN		
6875830	POLYMERIZATION CATALYSTS		
<b>207207</b> 0	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 FIRED FURNACE OPERATION AND APPARATUS		
6887070 6894115			
6903169	DUAL-FUNCTIONALIZED ADHESIVE COMPOSITIONS LTMC POLYMERIZATION OF UNSATURATED MONOMERS		
0307103			
6903170	OLEFIN POLYMERIZATION PROCESS USING TRIISOBUTYLALUMINUM AS A SCAVENGER		
6903170	METHOD FOR MAKING POLYOLEFINS		
6908973	SINGLE-SITE CATALYSTS FOR OLEFIN POLYMERIZATION		
0900973	The state of the s		
6914097	PROCESS FOR PRODUCING ACID FUNCTIONALIZED POLYOLEFINS AND PRODUCTS		
071407/	CASCADED POLYOLEFIN SLURRY POLYMERIZATION EMPLOYING		
6921804	DISENGAGEMENT VESSEL BETWEEN REACTORS		
U2210V7	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		
W. J. A. W. W. W. W.	ALUMINOBORONATE ACTIVATORS FOR SINGLE-SITE OLEFIN		
6933354	POLYMERIZATION CATALYSTS		
0723334	CROSSLINKABLE WIRE AND CABLE COMPOSITIONS HAVING IMPROVED		
6936655	ABRASION RESISTANCE		
6936671	PROCESS FOR COPOLYMERIZING ETHYLENE WITH VINYLSILANES		
0220011	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		
wettway	PROCESS FOR MAKING POLYOLEFIN COMPOSITIONS CONTAINING		
6979718	EXFOLIATED CLAY		
~FFFEE	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL AND MILD		
6979757	CONTROLLED CAVITATION ASSISTED CRACKING		
<i>4717131</i>	OLEFIN POLYMERIZATION CATALYSTS BASED ON HYDROXYL-DEPLETED		
6984599	CALIXARENE LIGANDS		
UJUNJJJ	FLAME RETARDANT INSULATION COMPOSITION HAVING IMPROVED		
6984677	SCORCH RESISTANCE		
6995216	PROCESS FOR MANUFACTURING SINGLE-SITE POLYOLEFINS		
V77J&1U	- NOCODO FOR INCHOSTRACIONARIO SURGESSI E FOL I OLEFUNS		

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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
7010072	METHOD FOR PREPARING CYCLODEXTRIN-POLYOLEFIN BLENDS AND
7019073	PRODUCTS MADE THEREFROM
7019187	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL AND MILD CATALYTIC CRACKING
7022785	
1022163	DIIMINE COMPLEXES FOR OLEFIN POLYMERIZATION CLATHROCHELATES AS OLEFIN POLYMERIZATION CATALYST
7026415	COMPONENTS  COMPONENTS
7030188	
1030100	IMPROVED MULTI-PHASE POLYPROPYLENE COMPOSITIONS PROCESS FOR INCREASING THE MELT STRENGTH OF EHTYLENE-VINYL
7037970	CARBOXYLATE COPOLYMERS
7041862	THERMAL CRACKING OF DIELS-ALDER ADDUCTS
7043938	METHOD OF THAWING A CRYOGENIC UNIT
7049262	CRYOGENIC METHOD FOR FORMING A SUPPORTED CATALYST
7217202	SYSTEM AND METHOD FOR MONITORING THE MECHANICAL CONDITION
7056097	OF A RECIPROCATING COMPRESSOR
, , , , ,	FUNCTIONALIZED PROPYLENE POLYMER COMPOSITIONS AND
7071259	COMPOSITES CONTAINING SAME
7074976	PROPYLENE PRODUCTION
7078081	PREPARATION OF POLYETHYLENE FILMS
7078362	CARBENE DONOR-MODIFIED ZIEGLER-NATTA CATALYSTS
7091291	OLEFIN POLYMERIZATION PROCESS
	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
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7196147	POLYMER PROPERTIES
2020064	POLYMER RESINS WITH IMPROVED ENVIRONMENTAL STRESS CRACK
7230054	RESISTANCE
7230056 7232604	IMPROVED CATALYST PREPARATION METHOD
1232004	FLAME RETARDANT CROSSLINKABLE COMPOSITIONS AND ARTICLES
7770784	SOLID STATE PROCESS TO MODIFY THE MELT CHARACTERISTICS OF
7238754	POLYETHYLENE RESINS AND PRODUCTS
7238765	IMPROVED HIGH DENSITY POLYETHYLENE AND INSULATION
7270740	COMPOSITIONS FOR WIRE AND CABLE
7270740 7273914	STARTUP OF AN OLEFINS PRODUCTION PLANT
7326823	OLEFIN POLYMERIZATION METHODS AROMATIC COMPOUND RECOVERY
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7348371	CELLULOSIC-REINFORCED COMPOSITES HAVING INCREASED RESISTANCE TO WATER ABSORPTION
7348466	SOLVENT EXTRACTION
	ALM A DISC A WAS TAKEN TO TAKE

7374661	THERMAL CRACKING
7374664	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL FEEDSTOCK
	FILLED PROPYLENE POLYMER COMPOSITIONS HAVING IMPROVED MELT
7375162	STRENGTH
7396449	OLEFIN PRODUCTION UTILIZING CONDENSATE FEEDSTOCK
	PROCESS FOR REMOVAL OF INTERMEDIATE HYDROGEN FROM CASCADED
7396892	POLYOLEFIN SLURRY REACTORS
	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
	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
	OPERATING A CURVILINEAR PRESSURE VESSEL WHERE TRANSPORT
7491259	PHENOMENA TAKE PLACE
7491368	METHOD FOR TEMPORARY CLOSING AND REOPENING OF A REACTOR TUBE
7493800	SAMPLING METHOD
7528185	WHITE POLYOLEFIN COMPOSITIONS HAVING REDUCED DIRE
	PLUG-FLOW METHOD AND APPARATUS FOR OPERATING A CURVILINEAR
7531024	PRESSURE VESSEL WHERE TRANSPORT PHENOMENA OCCUR
7538173	POLYOLEFIN COMPOSITIONS
7550638	INTEGRATED CRACKING AND METATHESIS PROCESS
	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL/CONDENSATE
7550642	FEEDSTOCK WITH ENHANCED DISTILLATE PRODUCTION
7571890	VALVE CONSTRUCTION AND METHOD OF USE
7572366	METHOD FOR PROCESSING NATURAL GAS
7601787	ETHYLENE POLYMERIZATION PROCESS
7608327	HIGH TEAR STRENGTH FILM
7614613	METHOD OF OPERATING A COOLING FLUID SYSTEM
7632900	LUBRICATING OIL
7638584	OLEFIN POLYMERIZATION PROCESS
7638586	OLEFIN POLYMERIZATION PROCESS
7638597	REMOVAL OF METAL CONTAMINANTS FROM POLYETHYLENE
7655740	OLEFIN POLYMERIZATION PROCESS
7659346	PROCESS FOR MALEATING POLYMERIZATION RESIDUES AND PRODUCTS
7666960	IMPROVED PROCESS FOR THE PRODUCTION OF ETHYLENE COPOLYMERS
7666961	OLEFIN POLYMERIZATION PROCESS
7671151	OLEFIN POLYMERIZATION PROCESS
7687575	PROPYLENE ELASTOMER-CONTAINING ADHESIVE BLENDS
7709585	ETHYLENE RECOVERY FROM A POLYMERIZATON PROCESS
7709693	TOLUENE PRODUCTION
	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
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PATENTS OWNED BY LYONDELLBASELL ACETYLS, LLC

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# 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	Equister Chemicals, LP
America			*
United States of	FILMEX	1241723	Equistar Chemicals, LP
America		1	*
United States of	FILMEX	0391698	Equistar Chemicals, LP
America			· · · · · · · · · · · · · · · · · · ·
United States of	FLEXATHENE	2091638	Equistar Chemicals, LP
America			and the same of th
United States of	INTEGRATE	2946794	Equistar Chemicals, LP
America			A Comment of the Comm
United States of	ISOMPLUS	1902244	Equistar Chemicals, LP
America			And the state of state of state
United States of	MICROTHENE	0715595	Equistar Chemicals, LP
America			
United States of	PETROTHENE	0718049	Equistar Chemicals, LP
America		Programa A	The state of the s
United States of	PETROTHENE	D611277	Equistar Chemicals, LP
America			A contract of the second secon
United States of	PLEXAR	1413868	Equistar Chemicals, LP
America		V	
Juited States of	PUNCTILIOUS	1001381	Equistar Chemicals, LP
America			and an anger precedence preceded way
Juited States of	ULTRATHENE	0783813	Equistar Chemicals, LP
\merica			and interested of the second second second
Inited States of	ULTRATHENE	0764486	Equistar Chemicals, LP
<b>Imerica</b>			The Section of the Parties of the Pa
inited States of	CRYSTEX	B358914	Nouston Refining LP
imerica			Language Controlled Try
nited States of	AQUAMARINE	2154250	Houston Refining LP
merica			hander of all trief to 1.

Country Name	Trademarks	Reg. No.	Record Owner
		(App. No.)	The state of the s
United States of	DUOPAC	1779448	Houston Refining LP
America			
United States of	DUOPRIME	1797191	Houston Refining LP
America		7	-
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	Lyondell Chemical Company
America			
United States of	EXPLORE &	2958099	Lyondell Chemical Company
America	EXPERIMENT		GUARACIA CONTRACTOR CO
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			LIC
United States of	GLIDSOL	3033642	LyondellBasell Flavors & Fragrances,
America .			LLC
United States of	NAVACET	77/141246	LyondellBasell Flavors & Fragrances,
America			LLC
United States of	TETRALOL	1428029	LyondellBasell Flavors & Fragrances,
America			uc
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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