

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
BANK OF AMERICA, N.A.		10/16/2013	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		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>			
Phone:	7133097550		
Email:	legal-ip@lyondellbasell.com		
Correspondent Name:	LyondellBasell		
Address Line 1:	1221 McKinney Street		
Address Line 2:	LyondellBasell - Legal Department		

CH \$165.00 1544129

Address Line 4: Houston, TEXAS 77010

ATTORNEY DOCKET NUMBER: BOA_HOUSTONREFINING

NAME OF SUBMITTER: Jason P. Sander

Signature: /Jason P. Sander/

Date: 02/07/2014

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 16, 2013 and granted by BANK OF AMERICA, 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 ("**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 ("**LBINV**"), Lyondell, each lender party thereto from time to time and the Collateral Agent entered into that certain Amended and Restated Credit Agreement dated as of March 30, 2011 (the "**Amended and Restated Credit Agreement**");

WHEREAS, the Amended and Restated Credit Agreement amended and restated that certain Credit Agreement, dated as of April 8, 2010, among LBINV, Lyondell, UBS AG, Stamford Branch as administrative agent and collateral agent (the "**Prior Collateral Agent**") and the other parties thereto from time to time;

WHEREAS, pursuant to that certain Successor Agent Agreement, dated as of March 4, 2011, among the Prior Collateral Agent, the Collateral Agent, Lyondell and the other parties thereto from time to time, the Prior Collateral assigned, and the Collateral Agent assumed, all rights and responsibilities as administrative agent and collateral agent under 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. Definition. 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.

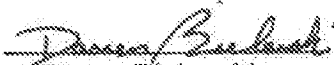
3. Further Assurances. The Collateral Agent agrees to execute, acknowledge, procure and deliver to the Grantors any and all further documents or instruments and do any and all further acts which the Grantors (or their respective agents, designees or assignees) reasonably request in order to confirm, effectuate or record this Release and the Grantors' (or their assignees') right, title and interest in and to the IP Collateral.

4. Governing Law. 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.

BANK OF AMERICA, N.A. as
Collateral Agent

By: 
Name: Darren Bielawski
Title: Vice President

ANNEX A

PATENTS

Annex A

TRADEMARK
REEL: 005211 FRAME: 0101

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 / 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
12/077098	REMOVING HYDROCARBON IMPURITIES FROM ACETIC ACID PRODUCTION PROCESS
12/151554	REMOVING HYDROCARBON IMPURITIES FROM ACETIC ACID BY IONIC LIQUID EXTRACTION
12/156004	DIISOBUTYLENE PROCESS
12/231220	PROPYLENE OXIDE PROCESS
12/283329	PREPARATION OF ACETIC ACID
12/284727	EPOXIDATION CATALYST
12/286229	RESIDUAL STREAM UPGRADING IN A PROPYLENE OXIDE-STYRENE MONOMER PROCESS
12/290757	REMOVING IODOBENZENE COMPOUNDS FROM ACETIC ACID SUPPORTED PALLADIUM-GOLD CATALYSTS AND PREPARATION OF VINYL ACETATE THEREWITH
12/291628	DIISOBUTYLENE PROCESS
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
12/382347	DEHYDRATION OF 1-PHENYL ETHANOL
12/383896	REMOVING HYDROCARBON IMPURITIES FROM ACETIC ACID PRODUCTION INTERMEDIATE
12/383904	EXTRACTIVE DISTILLATION OF CONJUGATED DIENE
12/454156	HYDROFORMYLATION PROCESS
12/456,090	DIRECT EPOXIDATION USING MODIFIERS
12/459065	EPOXIDATION PROCESS
12/460225	PROCESS FOR MAKING GLYCOL ETHER COMPOSITIONS USEFUL FOR METAL RECOVERY

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
	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

5314511	DIESEL FUEL
5319006	PREPARATION OF POLYESTERS FROM POLYETHERS BY AN ESTER-INSERTION PROCESS
5352807	PROPYLENE OXIDE PURIFICATION
5374747	EPOXIDATION PROCESS AND CATALYST THEREFORE
5420357	PREPARATION OF DIALKYL PEROXIDES
5436313	PROCESS FOR MAKING A POLYETHERESTER
5436314	PROCESS FOR MAKING A POLYETHERESTER BY INSERTION OF A CARBOXYLIC 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 HYDROPEROXIDE
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
5554796	REMOVAL OF PRIMARY AND SECONDARY HYDROPEROXIDE IMPURITIES FROM TERTIARY HYDROPEROXIDES
5567853	PURIFICATION OF ACETONE
5569737	PROCESS FOR MAKING A POLYETHERESTER BY INSERTION OF A CARBOXYLIC 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 CATALYSTS
5610205	PROCESS FOR MAKING A POLYETHERESTER BY INSERTION OF A CARBOXYLIC 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)
5688484	A NON-HYDROTHERMAL METHOD OF MAKING A TITANIUM-CONTAINING ZEOLITE (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
5759945	PREPARATION OF TITANIUM-CONTAINING CATALYSTS USING TITANOSILOXANE POLYMERS
5760253	CATALYTIC CONVERTER AND METHOD FOR HIGHLY EXOTHERMIC REACTIONS
5770746	EPOXIDATION PROCESS USING SUPPORTED SILVER CATALYSTS PRETREATED WITH ORGANIC CHLORIDE
5840933	CATALYTIC CONVERTER SYSTEM AND PROCESS
5849937	EPOXIDATION PROCESS USING SERIALY CONNECTED CASCADE OF FIXED BED REACTORS
5849938	SEPARATION OF METHANOL AND PROPYLENE OXIDE FROM A REACTION MIXTURE
5863391	PURIFICATION 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
5994578	ESTER PREPARATION
6005123	EPOXIDATION PROCESS
6008388	EPOXIDATION PROCESS
6011162	EPOXIDATION PROCESS USING IMPROVED HETEROGENEOUS CATALYST 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
6153713	PROCESS FOR MAKING HYDROXY-FUNCTIONAL ACRYLIC RESINS HAVING LOW 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
6376586	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	DIRECT EPOXIDATION PROCESS USING CARBONATE MODIFIERS
6403815	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
6417378	DIRECT EPOXIDATION PROCESS USING PRE-TREATED TITANIUM ZEOLITE
6417412	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	PREPARATION OF VINYL AROMATIC-ALLYLIC ALCOHOL COPOLYMERS
6478930	IMPURITIES SEPARATION BY DISTILLATION
6498259	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
6500311	PROPYLENE OXIDE PURIFICATION
6512066	PROCESS FOR MAKING CROSSLINKED POLYVINYLPIRROLIDONE WITH LOW 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 POLYVINYLPIRROLIDONE
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
	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
	PREPARATION OF DICYCLOPENTADIENE-CONTAINING UNSATURATED
6977282	POLYESTERS
6982337	PROCESS FOR MAKING N-VINYL-2-PYRROLIDONE
6984606	EPOXIDATION CATALYST
	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
	OXIDATION PROCESS WITH IN-SITU H ₂ O ₂ 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

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
	LARGE PARTICLE SIZE TITANIUM SILICALITE CATALYSTS FOR USE THEREIN
7399726	DIISOBUTYLENE PROCESS
7414164	PREPARATION OF ALKANOLAMINES
7425652	DIRECT EPOXIDATION PROCESS
7432384	PURIFICATION OF PROPYLENE GLYCOL MONOALKYL ETHER
7439405	DIRECT EPOXIDATION CATALYST AND PROCESS
7453003	TITANIUM ZEOLITE CATALYSTS
7470800	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
7470801	EPOXIDATION CATALYST
7476770	PROCESS FOR MAKING ALKYLENE GLYCOL ETHER COMPOSITIONS USEFUL FOR
	METAL RECOVERY
7482495	PROCESS FOR PRODUCING HYDROGEN PEROXIDE
7501532	PROCESS FOR OXIDIZING ORGANIC COMPOUNDS
7528269	DIRECT EPOXIDATION PROCESS USING IMPROVED CATALYST COMPOSITION
7531675	DIRECT EPOXIDATION PROCESS
7541479	METHOD FOR RECOVERING SOLVENTS
7550065	DIRECT EPOXIDATION PROCESS
7550610	DIRECT EPOXIDATION PROCESS
7563740	DRYCLEANING METHOD
7575604	DIRECT EPOXIDATION PROCESS USING IMPROVED CATALYST COMPOSITION
7595410	HYDROFORMYLATION PROCESS
7612241	DIRECT EPOXIDATION PROCESS
7615654	MULTIPHASE REACTOR DESIGN INCORPORATING FILTRATION SYSTEM FOR FIXED-BED CATALYST
7642365	REACTION SYSTEM
7645892	SPRAY-DRIED TRANSITION METAL ZEOLITE AND ITS USE
7648936	PROPYLENE OXIDE PROCESS
7649102	DIRECT HYDROCARBONYLATION PROCESS
7655821	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
7671222	PROPYLENE OXIDE PROCESS
7687647	DIRECT EPOXIDATION PROCESS USING A MIXED CATALYST SYSTEM
7696367	ALKYLENE OXIDE PROCESS
7700790	PURIFICATION OF UNSATURATED HYDROCARBON STREAMS CONTAINING
	STYRENICS
5081325	OLEFIN CONVERSION PROCESS
5120894	PROCESS FOR REMOVING ALDEHYDES AND/OR VINYL ESTERS FROM GASEOUS OR
	LIQUID PROCESS STREAMS
5157205	

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

7485749	PREPARATION OF ACETIC ACID
7524988	PREPARATION OF ACETIC ACID

**PATENT APPLICATIONS 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 APPLICATIONS 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
 ELONGATION
 10/879763 MULTILAYER POLYETHYLENE THIN FILMS
 11/053962 PREPARATION OF MULTILAYER POLYETHYLENE THIN FILMS
 11/054202 MODIFIED TIE-LAYER COMPOSITIONS AND IMPROVED CLARITY MULTI-
 LAYER BARRIER FILMS PRODUCED THEREWITH
 11/221119 SOLID STATE MODIFICATION OF PROPYLENE POLYMERS
 11/362625 HYDROCARBON CRACKING
 11/635324 PROCESS FOR PRODUCING MULTI-LAYER STRUCTURES HAVING IMPROVED
 METAL ADHESION
 11/651265 MDO MULTILAYER POLYETHYLENE FILM
 11/698591 IMPROVING BARRIER PROPERTIES OF SUBSTANTIALLY LINEAR HDPE FILM
 WITH NUCLEATING AGENTS
 11/717944 DYNAMIC SEAL ASSEMBLY
 11/799907 OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL/CONDENSATE
 FEEDSTOCK AND HYDROTREATING
 11/800824 HYDROCARBON THERMAL CRACKING USING ATMOSPHERIC RESIDUUM
 11/803905 METHOD FOR CONVEYING POLYMER
 11/807315 PREPARATION OF POLYETHYLENE
 11/809688 IMPROVED RHEOLOGY-MODIFIED GRAFTS AND ADHESIVE BLENDS
 11/888501 MONOMER CONCENTRATION PREDICTION AND CONTROL IN A
 POLYMERIZATION PROCESS
 11/890726 OLEFIN PRODUCTION UTILIZING A FEED CONTAINING CONDENSATE AND
 CRUDE OIL
 11/894013 OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL/CONDENSATE
 FEEDSTOCK AND SELECTIVE HYDROCRACKING
 11/894123 POLYOLEFIN RESIN BLENDS FOR CRACK-RESISTANT PIPE
 11/897438 OLEFIN POLYMERIZATION PROCESS
 11/899090 OLEFIN POLYMERIZATION PROCESS
 11/899113 MODIFICATION OF POLYETHYLENE WITH OZONE
 11/906306 TUBE HANDLING METHOD AND APPARATUS
 11/978297 IMPROVED TIE-LAYER ADHESIVES FOR STYRENE POLYMERS AND
 ARTICLES
 12/006370 OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL/CONDENSATE
 FEEDSTOCK WITH A PARTITIONED VAPORIZATION UNIT
 12/006435 PREPARATION OF WIRES AND CABLES
 12/006532 METHOD FOR REDUCING COKE AND OLIGOMER FORMATION IN A FURNACE
 12/009251 PREPARATION OF ULTRA HIGH MOLECULAR WEIGHT LINEAR LOW
 DENSITY POLYETHYLENE
 12/072175 OLEFIN POLYMERIZATION PROCESS
 12/150724 METATHESIS PROCESS USING A MOVING PHASE REACTOR
 12/152053 BIMODAL POLYETHYLENE PROCESS AND PRODUCTS
 12/156844 EXTRACTIVE DISTILLATION
 12/157300

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
 POLYETHYLENE HAVING FASTER CRYSTALLIZATION RATE AND
 12/288826 IMPROVED ENVIRONMENTAL STRESS CRACKING RESISTANCE
 12/290792 OLEFIN POLYMERIZATION PROCESS
 12/313336 METHOD FOR TIMING A POLYMER PUMP CONTAINING POLYMER
 QUALITY ASSURANCE METHOD FOR OLEFIN POLYMERIZATION
 CATALYSTS
 12/313575 PROCESS FOR MAKING ETHYLENE HOMOPOLYMERS
 12/313576 PREPARATION OF MULTIMODAL POLYETHYLENE
 12/315552 PREPARATION OF POLYOLEFIN-BASED ADHESIVES
 12/319486 EXTRUSION COATED ARTICLE
 12/380455 POLYOLEFIN COMPOSITION HAVING IMPROVED OXIDATIVE STABILITY
 12/380519 PROCESSING OF ACID CONTAINING HYDROCARBONS
 12/383967 PROCESSING OF ACID CONTAINING HYDROCARBONS
 12/383989 PROCESSING OF ACID CONTAINING HYDROCARBONS
 12/383990 POLYETHYLENE PIPE RESINS
 12/387074 FRACTIONAL EXTRACTION OF BUTADIENE
 12/454778 PREPARATION OF POLYOLEFIN-BASED ADHESIVES
 12/454780 HEAT-SHRINKABLE FILM
 12/456403 DOUBLE CONTAINMENT VALVE SYSTEM
 12/456635 POLYETHYLENE COMPOSITIONS COMPRISING A POLAR PHENOLIC
 ANTIOXIDANT AND REDUCED DISSIPATION FACTOR, AND METHODS
 THEREOF
 12/460304 CATALYSTS BASED ON 2-ARYL-8-ANILINOQUINOLINE LIGANDS
 12/460621 METHOD OF PREPARING NON-METALLOCENE CATALYSTS
 12/460628 METHOD OF PREPARING NON-METALLOCENE CATALYSTS
 12/460640 METHOD FOR LOCATING THE SURFACE OF A POLYMER PARTICLE BED
 12/462021 IMPROVED ADHESIVE COMPOSITIONS
 12/462163 POLYOLEFIN COMPOSITION AND FILM THEREOF
 12/583547 INDAZOLE-MODIFIED ZIEGLER-NATTA CATALYST SYSTEM
 12/587148 NITROSO-MODIFIED ZIEGLER-NATTA CATALYST SYSTEM
 12/587186 PYRIDIZINE-MODIFIED ZIEGLER-NATTA CATALYST SYSTEM
 12/587187 2-HYDROXYPYRIDINE N-OXIDE-MODIFIED ZIEGLER-NATTA CATALYST
 SYSTEM
 12/587188 POLYOLEFIN-BASED ADHESIVES HAVING IMPROVED OXIDATIVE
 STABILITY
 12/590224 PREPARATION OF MULTIMODAL, HIGH DENSITY, ETHYLENE
 HOMOPOLYMER BARRIER RESINS AND FILMS
 12/592900 FILMS OF POLYETHYLENE BLENDS
 12/655427 MULTILAYER STRUCTURES WITH COMMON TIE LAYER
 12/655434 METHOD FOR PREPARING A ZIEGLER-NATTA CATALYST
 12/658191 POLYOLEFIN NANOCOMPOSITES
 12/658886 POLYETHYLENE COMPOSITION HAVING REDUCED WARPAGE IN MOLDED
 ARTICLES
 12/658905 ACTIVATION OF MONOCYCLOPENTADIENYL GROUP 6 COMPLEXES
 12/660555

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
5246779	MICROFINE PROPYLENE POLYMER POWDERS AND PROCESS FOR THEIR PREPARATION
5371279	ACETIC ACID REMOVAL FROM LIQUID ETHER ACETATES
5430091	MOISTURE CROSSLINKABLE FLAME RETARDANT COMPOSITONS FOR CABLE APPLICATIONS
5486333	BLOW MOLDING EXTRUSION DIE WITH RECTANGULAR SLOTS
5492760	WATER TREE RESISTANT, MOISTURE CURABLE INSULATION COMPOSITION FOR POWER CABLES
5539124	POLYMERIZATION CATALYSTS BASED ON TRANSITION METAL COMPLEXES WITH LIGANDS CONTAINING PYRROLYL RING (AZAMETALLOCENE POLYMERIZATION CATALYSTS)
5554775	BORABENZENE BASED OLEFIN POLYMERIZATION CATALYSTS
5637659	BORABENZENE BASED OLEFIN POLYMERIZATION CATALYSTS
5637660	POLYMERIZATION OF ALPHA-OLEFINS WITH TRANSITION METAL CATALYSTS BASED ON BIDENTATE LIGANDS CONTAINING PYRIDINE OR QUINOLINE MOIETY
5733480	SEMICONDUCTIVE EXTRUDABLE POLYOLEFIN COMPOSITIONS AND ARTICLES
5902866	AZABOROLINYL METAL COMPLEXES AS OLEFIN POLYMERIZATION CATALYSTS
5955538	PROCESS FOR THE MANUFACTURE OF ETHYLENE/VINYL ACETATE/VINYL ALCOHOL TERPOLYMER
5962598	POLYETHYLENE FILM COMPOSITION HAVING BROAD MOLECULAR WEIGHT DISTRIBUTION AND IMPROVED BUBBLE STABILITY
6034027	BORABENZENE BASED OLEFIN POLYMERIZATION CATALYSTS CONTAINING A GROUP 3-10 METAL
6040261	SUPPORTED SINGLE-SITE CATALYST AND OLEFIN POLYMERIZATION PROCESS
6111160	PROCESS FOR ISOMERIZING LINEAR OLEFINS TO ISOOLEFINS
6121183	MODIFIED POLYSILOXANE CATALYSTS AND METHOD OF USING THE SAME
6127484	OLEFIN POLYMERIZATION PROCESS
6147167	PROCESS FOR PRODUCING POLYETHYLENE FILM COMPOSITION HAVING BROAD MOLECULAR WEIGHT DISTRIBUTION AND IMPROVED BUBBLE STABILITY
6171993	ENHANCED-IMPACT LLDPE WITH A SHEAR MODIFIABLE NETWORK STRUCTURE
6184169	ETHYLENE POLYMERIZATION CATALYST AND CATALYST SYSTEM
6194339	ETHYLENE POLYMERIZATION CATALYST AND CATALYST SYSTEM
6197852	POLYOLEFIN CONCENTRATES AND COMPOSITIONS HAVING IMPROVED CARBON BLACK DISPERSION
6201076	OLEFIN POLYMERIZATION PROCESS WITH FATTY AMINE ADDITIVES FOR IMPROVED ACTIVITY AND REDUCED FOULING
6204216	OLEFIN POLYMERIZATION CATALYSTS CONTAINING AMINE DERIVATIVES
6211311	SUPPORTED OLEFIN POLYMERIZATION CATALYST
6228958	AZABOROLINYL METAL COMPLEXES AS OLEFIN POLYMERIZATION CATALYSTS
6228959	SINGLE-SITE CATALYSTS CONTAINING HOMOAROMATIC LIGANDS
6232260	SINGLE-SITE CATALYSTS FOR OLEFIN POLYMERIZATION
6239239	QUINOLINOXY AND PYRIDINOXY SINGLE-SITE 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
 WITH THE SAME
 6299978
 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
 APPARATUS THEREFOR
 6328798
 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
 STABILITY
 6469088
 6486270 HIGH MOLECULAR WEIGHT, MEDIUM DENSITY POLYETHYLENE
 CHELATING PYRIMIDINES AS LIGANDS FOR SINGLE-SITE OLEFIN
 POLYMERIZATION CATALYSTS
 6489414 SINGLE-SITE CATALYSTS CONTAINING CHELATING N-OXIDE LIGANDS
 6498221 POLYPROPYLENE PREPARATION
 6541583 OLEFIN POLYMERIZATION CATALYSTS CONTAINING CHELATING
 DIANIONIC LIGANDS
 6544918
 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
 LIGANDS
 6579957
 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-
 ELECTRON-DONOR LIGANDS
 6586545 OLEFIN POLYMERIZATION CATALYSTS CONTAINING 1,3-DIBORETANYL
 LIGANDS
 6596826
 6602966 IN-REACTOR PROCESS FOR MAKING ETHYLENE POLYMER
 NANOCOMPOSITE MATERIALS
 6613841 PREPARATION OF MACHINE DIRECTION ORIENTED POLYETHYLENE FILMS
 COATED POLYMERIC PARTICLES HAVING IMPROVED ANTI-BLOCK
 CHARACTERISTICS, METHOD OF MAKING SUCH PARTICLES, AND
 APPARATUS THEREFOR
 6616968
 6620982 METHOD OF PRODUCING PURIFIED CYCLOPENTANE
 USE OF SILANES TO CONTROL MOLECULAR WEIGHT IN OLEFIN
 POLYMERIZATIONS
 6630547
 6635728 PREPARATION OF ULTRA-HIGH-MOLECULAR-WEIGHT POLYETHYLENE
 USE OF SILANES TO ENHANCE ACTIVITY IN SINGLE-SITE
 POLYMERIZATIONS
 6642326
 6646072 PROCESS FOR MAKING POLYOLEFIN COMPOSITIONS CONTAINING
 EXFOLIATED CLAY
 6649698 POLYETHYLENE BLENDS
 PROCESS FOR PRODUCING OLEFIN POLYMER COMPOSITES HAVING
 IMPROVED MELT STRENGTH
 6656995
 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	TRANSITION METAL CATALYSTS FOR OLEFIN POLYMERIZATION
6693155	PROPYLENE POLYMERIZATION PROCESS
6693157	OLEFIN POLYMERIZATION CATALYSTS CONTAINING TRIQUINANE LIGANDS
6710005	ALUMINOXANE MODIFICATION
6713576	OLEFIN POLYMERIZATION CATALYSTS BASED ON CONVEX, POLYCYCLIC LIGANDS
6713585	ENHANCED-IMPACT LLDPE WITH A SHEAR MODIFIABLE NETWORK STRUCTURE
6716928	GRAFTED PROPYLENE COPOLYMERS AND ADHESIVE BLENDS
	CASCADED BOILING POOL REACTORS FOR PRODUCING
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
6756455	HIGH-TEMPERATURE SOLUTION PROCESS FOR POLYOLEFIN MANUFACTURE
6759361	ALUMINOBORONATE ACTIVATORS FOR SINGLE-SITE OLEFIN POLYMERIZATION CATALYSTS
6759493	TRANSITION METAL CATALYSTS CONTAINING BIDENTATE LIGANDS AND METHOD OF USING AND REPAIRING SAME
6762255	PREALKYLATED OLEFIN POLYMERIZATION CATALYSTS AND OLEFIN POLYMERIZATION EMPLOYING SUCH CATALYSTS
6765074	OLEFIN POLYMERIZATION PROCESS
6767975	OLEFIN POLYMERIZATION WITH PYRIDINE MOIETY-CONTAINING SINGLE- SITE CATALYSTS
6768038	ALPHA OLEFIN PRODUCTION
6770715	HIGH MOLECULAR WEIGHT, MEDIUM DENSITY POLYETHYLENE OLEFIN POLYMERIZATION CATALYSTS BASED ON ANNULATED CYCLOPENTADIENYL LIGANDS
6774078	SYNTHESIS GAS PRODUCTION
6780395	ACYCLIC ANIONIC SIX-ELECTRON-DONOR ANCILLARY LIGANDS
6780807	PROCESS FOR THE IN-SITU PREPARATION OF SINGLE-SITE TRANSITION METAL CATALYSTS AND POLYMERIZATION PROCESS
6790805	TRANSITION METAL CATALYSTS CONTAINING BIDENTATE LIGANDS AND METHOD OF USING AND PREPARING SAME
6790918	OLEFIN POLYMERIZATION PROCESS
6794468	METHOD FOR PREPARING PROPYLENE POLYMERS HAVING BROAD MOLECULAR WEIGHT DISTRIBUTION
6800703	HIGH FLOW FILLED PROPYLENE POLYMER COMPOSITIONS HAVING IMPROVED IMPACT AND DIMENSIONAL PROPERTIES
6803421	TRIPLE-DECKER CATALYSTS BASED ON DELOCALIZED DIANIONIC LIGANDS
6812183	PROCESS FOR MAKING POLYETHYLENE
6818713	PYROLYSIS GASOLINE STABILIZATION
6824674	ADHESIVE COMPOSITIONS HAVING IMPROVED PERFORMANCE
6835777	CATALYSTS FOR MAKING POLYOLEFINS
6838410	IMPROVED ADHESIVES FOR FLUOROPOLYMER FILMS AND STRUCTURES CONTAINING SAME
6838520	BIMETALLIC INDENOINDOLYL CATALYSTS
6841500	POLYMERIZATION CATALYST SYSTEM CONTAINING POLYETHER-
6841506	

6844389	MODIFIED ALUMINOXANE ETHYLENE POLYMER COMPOSITIONS HAVING IMPROVED MELT STRENGTH PREPARATION OF OLEFIN-ACRYLIC COPOLYMERS WITH LATE TRANSITION
6844402	METAL CATALYSTS
6861485	MULTI-CATALYST SYSTEM FOR OLEFIN POLYMERIZATION BIMETALLIC OLEFIN POLYMERIZATION CATALYSTS CONTAINING
6864210	INDIGOID LIGANDS
6872862	PROPYLENE PRODUCTION
6875829	SINGLE-SITE CATALYSTS CONTAINING CHELATING N-OXIDE LIGANDS CHELATING PYRIMIDINES AS LIGANDS FOR SINGLE-SITE OLEFIN
6875830	POLYMERIZATION CATALYSTS
6875879	OLEFIN POLYMERIZATION CATALYSTS CONTAINING TRIQUINANE LIGANDS SUPPORTED CATALYSTS WHICH REDUCE SHEETING IN OLEFIN POLYMERIZATION, PROCESS FOR THE PREPARATION AND THE USE THEREOF
6884749	SHEAR MODIFICATION OF HDPE-CLAY NANOCOMPOSITES
6884834	1-BUTENE PRODUCTION
6884917	FIRED FURNACE OPERATION AND APPARATUS
6887070	DUAL-FUNCTIONALIZED ADHESIVE COMPOSITIONS
6894115	LTMC POLYMERIZATION OF UNSATURATED MONOMERS
6903169	OLEFIN POLYMERIZATION PROCESS USING TRIISOBUTYLALUMINUM AS A SCAVENGER
6903170	METHOD FOR MAKING POLYOLEFINS
6908972	SINGLE-SITE CATALYSTS FOR OLEFIN POLYMERIZATION
6908973	PROCESS FOR PRODUCING ACID FUNCTIONALIZED POLYOLEFINS AND PRODUCTS
6914097	CASCADED POLYOLEFIN SLURRY POLYMERIZATION EMPLOYING DISENGAGEMENT VESSEL BETWEEN REACTORS
6921804	PROCESS FOR REMOVAL OF INTERMEDIATE HYDROGEN FROM CASCADED POLYOLEFIN SLURRY REACTORS
6924340	TRIPROPYLENE GLYCOL PRODUCTION
6927310	POLYMER BOUND SINGLE-SITE CATALYSTS
6930156	OLEFIN POLYMERIZATION PROCESS
6933353	ALUMINOBORONATE ACTIVATORS FOR SINGLE-SITE OLEFIN POLYMERIZATION CATALYSTS
6933354	CROSSLINKABLE WIRE AND CABLE COMPOSITIONS HAVING IMPROVED ABRASION RESISTANCE
6936655	PROCESS FOR COPOLYMERIZING ETHYLENE WITH VINYLSILANES
6936671	HYDROSILANE ADDITIVES FOR INCREASED POLYOLEFIN MOLECULAR WEIGHT
6939930	HYDROCARBON CRACKING
6948453	SOFT TOUCH POLYOLEFIN COMPOSITIONS
6949605	PYROLYSIS GASOLINE STABILIZATION
6949686	OLEFIN POLYMERIZATION PROCESS
6958377	OLEFIN POLYMERIZATION PROCESS
6967231	PROPYLENE PRODUCTION
6977318	PROCESS FOR MAKING POLYOLEFIN COMPOSITIONS CONTAINING EXFOLIATED CLAY
6979718	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL AND MILD CONTROLLED CAVITATION ASSISTED CRACKING
6979757	OLEFIN POLYMERIZATION CATALYSTS BASED ON HYDROXYL-DEPLETED CALIXARENE LIGANDS
6984599	FLAME RETARDANT INSULATION COMPOSITION HAVING IMPROVED SCORCH RESISTANCE
6984677	PROCESS FOR MANUFACTURING SINGLE-SITE POLYOLEFINS
6995216	

6995220 ETHYLENE POLYMERIZATION PROCESS
 FLAME RETARDANT INSULATION COMPOSITIONS HAVING IMPROVED
 6998443 ABRASION RESISTANCE
 6998451 OLEFIN POLYMERIZATION PROCESS
 7005489 ZWITTERIONIC METALLOCYCLES
 7011892 PREPARATION OF POLYETHYLENE FILMS
 METHOD FOR PREPARING CYCLODEXTRIN-POLYOLEFIN BLENDS AND
 7019073 PRODUCTS MADE THEREFROM
 OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL AND MILD CATALYTIC
 7019187 CRACKING
 7022785 DIIMINE COMPLEXES FOR OLEFIN POLYMERIZATION
 CLATHROCHELATES AS OLEFIN POLYMERIZATION CATALYST
 7026415 COMPONENTS
 7030188 IMPROVED MULTI-PHASE POLYPROPYLENE COMPOSITIONS
 PROCESS FOR INCREASING THE MELT STRENGTH OF ETHYLENE-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
 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
 OLEFIN POLYMERIZATION PROCESS WITH IMPROVED OPERABILITY AND
 7196147 POLYMER PROPERTIES
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 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

7374661 THERMAL CRACKING
 7374664 OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL FEEDSTOCK
 FILLED PROPYLENE POLYMER COMPOSITIONS HAVING IMPROVED MELT
 STRENGTH
 7375162 OLEFIN PRODUCTION UTILIZING CONDENSATE FEEDSTOCK
 7396449 PROCESS FOR REMOVAL OF INTERMEDIATE HYDROGEN FROM CASCADED
 POLYOLEFIN SLURRY REACTORS
 7396892 MODIFYING POLYETHYLENE MADE BY ZIEGLE OR SINGLE-SITE CATALYST
 WITH FREE RADICAL INITIATOR
 7399809 MAGNESIUM CHLORIDE SUPPORT
 7402546 HYDROCARBON THERMAL CRACKING USING ATMOSPHERIC DISTILLATION
 7404889 POLYETHYLENE PROCESS
 7423098 PREPARATION OF ULTRA HIGH MOLECULAR WEIGHT LINEAR LOW
 DENSITY POLYETHYLENE
 7429635 LINEAR LOW DENSITY POLYETHYLENE COMPOSITIONS AND FILMS
 7439290 ADHESIVE BLEND POWDERS
 7456241 PREPARATION OF MULTIMODAL POLYETHYLENE
 7473745 LTMC POLYMERIZATION OF UNSATURATED MONOMERS
 7473746 RESIDENCE TIME DISTRIBUTION METHOD AND APPARATUS FOR
 OPERATING A CURVILINEAR PRESSURE VESSEL WHERE TRANSPORT
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 7491259 METHOD FOR TEMPORARY CLOSING AND REOPENING OF A REACTOR TUBE
 7491368 SAMPLING METHOD
 7493800 WHITE POLYOLEFIN COMPOSITIONS HAVING REDUCED DIRE
 7528185 FLUG-FLOW METHOD AND APPARATUS FOR OPERATING A CURVILINEAR
 PRESSURE VESSEL WHERE TRANSPORT PHENOMENA OCCUR
 7531024 POLYOLEFIN COMPOSITIONS
 7538173 INTEGRATED CRACKING AND METATHESIS PROCESS
 7550638 OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL/CONDENSATE
 FEEDSTOCK WITH ENHANCED DISTILLATE PRODUCTION
 7550642 VALVE CONSTRUCTION AND METHOD OF USE
 7571890 METHOD FOR PROCESSING NATURAL GAS
 7572366 ETHYLENE POLYMERIZATION PROCESS
 7601787 HIGH TEAR STRENGTH FILM
 7608327 METHOD OF OPERATING A COOLING FLUID SYSTEM
 7614613 LUBRICATING OIL
 7632900 OLEFIN POLYMERIZATION PROCESS
 7638584 OLEFIN POLYMERIZATION PROCESS
 7638586 REMOVAL OF METAL CONTAMINANTS FROM POLYETHYLENE
 7638597 OLEFIN POLYMERIZATION PROCESS
 7655740 PROCESS FOR MALEATING POLYMERIZATION RESIDUES AND PRODUCTS
 7659346 IMPROVED PROCESS FOR THE PRODUCTION OF ETHYLENE COPOLYMERS
 7666960 OLEFIN POLYMERIZATION PROCESS
 7666961 OLEFIN POLYMERIZATION PROCESS
 7671151 OLEFIN POLYMERIZATION PROCESS
 7687575 PROPYLENE ELASTOMER-CONTAINING ADHESIVE BLENDS
 7709585 ETHYLENE RECOVERY FROM A POLYMERIZATION PROCESS
 7709693 TOLUENE PRODUCTION

PATENTS OWNED BY LYONDELLBASELL ACETYL, LLC

5194417 PRETREATMENT OF PALLADIUM-GOLD CATALYSTS USEFUL IN VINYL
 ACETATE SYNTHESIS
 5336802 PRETREATMENT OF PALLADIUM-GOLD CATALYSTS USEFUL IN VINYL
 ACETATE SYNTHESIS
 6031129 USE OF PENTAVALENT GROUP VA OXIDES IN ACETIC ACID PROCESSING

PATENTS OWNED BY LYONDELLBASELL ACETYL, LLC

6022823	IMPROVED PROCESS FOR THE PRODUCTION OF SUPPORTED PALLADIUM-GOLD CATALYSTS
6103934	MANUFACTURING AND PROCESS CONTROL METHODS
6362366	MANUFACTURING AND PROCESS CONTROL METHODS
6420595	PROCESS CONTROL FOR VINYL ACETATE MANUFACTURE
6552221	PROCESS CONTROL FOR ACETIC ACID MANUFACTURE

PATENT APPLICATIONS AND PATENTS OWNED BY LYONDELLBASELL FLAVORS & FRAGRANCES, LLC

11/974575	PHYSIOLOGICAL COOLANTS BASED ON LACTOYL ESTERS OF MENTHYL LACTATE
12/317874	A PROCESS FOR SEPARATING TERTIARY ALCOHOLS FROM SECONDARY 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 <i>trans</i> -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
6835686	CATALYST SYSTEM AND PROCESS FOR REARRANGEMENT OF EPOXIDES TO ALLYLIC ALCOHOLS
6884913	METHOD FOR PREPARATION OF ALPHA, BETA-UNSATURATED CYCLIC KETONES BY DEHYDRATION OF SECONDARY ALLYLIC CYCLIC ALCOHOLS
7173146	MENTHYL LACTATE PROCESS
7189760	PHYSIOLOGICAL COOLING COMPOSITIONS CONTAINING HIGHLY PURIFIED ETHYL ESTER OF N-[[5-METHYL-2-(1-METHYLETHYL)CYCLOHEXYL] CARBONYL]GLYCINE
7247743	PROCESS FOR MAKING MONOMENTHYL ESTERS
7262329	PROCESS FOR MAKING INTERMEDIATES FOR FRAGRANCE COMPONENTS 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
7560398	FRAGRANCE COMPOSITIONS FROM TERTIARY TERPENE ALCOHOLS
7589241	A PROCESS FOR SEPARATING TERTIARY ALCOHOLS FROM SECONDARY ALCOHOLS FROM PINE OIL
7652067	AQUEOUS COMPOSITIONS CONTAINING MONOESTER SALTS
7655816	METHOD FOR STABILIZING MENTHYL LACTATE

ANNEX B
TRADEMARKS AND SERVICE MARKS

Annex B

TRADEMARK
REEL: 005211 FRAME: 0117

Schedule 11(a)

Patents and Trademarks

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

Country Name	Trademarks	Reg. No. (App. No.)	Record Owner
United States of America	EQUISTAR	2352343	Equistar Chemicals, LP
United States of America	STARFLEX	3399585	Equistar Chemicals, LP
United States of America	ALATHON	0543580	Equistar Chemicals, LP
United States of America	EQUISTAR	2278210	Equistar Chemicals, LP
United States of America	FILMEX	1241723	Equistar Chemicals, LP
United States of America	FILMEX	0391698	Equistar Chemicals, LP
United States of America	FLEXATHENE	0091638	Equistar Chemicals, LP
United States of America	INTEGRATE	2946794	Equistar Chemicals, LP
United States of America	ESOMPLUS	1902244	Equistar Chemicals, LP
United States of America	MICROTHENE	0715595	Equistar Chemicals, LP
United States of America	PETROTHENE	0718049	Equistar Chemicals, LP
United States of America	PETROTHENE	0611277	Equistar Chemicals, LP
United States of America	PLEXAR	1413868	Equistar Chemicals, LP
United States of America	PUNCTILIOUS	1001381	Equistar Chemicals, LP
United States of America	ULTRATHENE	0783813	Equistar Chemicals, LP
United States of America	ULTRATHENE	0764486	Equistar Chemicals, LP
United States of America	CRYSTEX	3358914	Houston Refining LP
United States of America	AQUAMARINE	2154250	Houston Refining LP

Country Name	Trademarks	Reg. No. (App. No.)	Record Owner
United States of America	DUOPAC	1779448	Houston Refining LP
United States of America	DUOPRIME	1797191	Houston Refining LP
United States of America	IDEAL	3205624	Houston Refining LP
United States of America	TUFFLO	1544129	Houston Refining LP
United States of America	ARCTIC SHIELD	3400194	Lyondell Chemical Company
United States of America	ARCTIC PLUS	2973703	Lyondell Chemical Company
United States of America	EXPLORE & EXPERIMENT	2958099	Lyondell Chemical Company
United States of America	LYONDELL	3046814	Lyondell Chemical Company
United States of America	POLYMEG	1471844	Lyondell Chemical Company
United States of America	Cube Design	2520539	Lyondell Chemical Company
United States of America	MPDIOL	2302182	Lyondell Chemical Properties, L.P.
United States of America	T-HYDRO	1301087	Lyondell Chemical Properties, L.P.
United States of America	TEBOL	1314158	Lyondell Chemical Properties, L.P.
United States of America	GLIDOX	3075207	LyondellBasell Flavors & Fragrances, LLC
United States of America	GLIDSOL	3033642	LyondellBasell Flavors & Fragrances, LLC
United States of America	NAVACET	77141246	LyondellBasell Flavors & Fragrances, LLC
United States of America	TETRALOL	1428029	LyondellBasell Flavors & Fragrances, LLC
United States of America	WINSENSE	3111961	LyondellBasell Flavors & Fragrances, LLC

ANNEX C
COPYRIGHTS

Annex C

TRADEMARK
REEL: 005211 FRAME: 0120

Schedule 11(b)

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None