

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
DEUTSCHE BANK TRUST COMPANY AMERICAS		10/17/2013	CORPORATION:

**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

CH \$165.00 1544129

Address Line 2: LyondellBasell - Legal Department  
Address Line 4: Houston, TEXAS 77010

ATTORNEY DOCKET NUMBER: DEUTSCHE\_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 17, 2013 and granted by DEUTSCHE BANK TRUST COMPANY AMERICAS (the "**Collateral Agent**"), as collateral agent for the secured parties under the Indenture referred to below (the "**Secured Parties**"), in favor of LYONDELL CHEMICAL COMPANY, a Delaware corporation; EQUICSTAR CHEMICALS, LP, a Delaware limited partnership, HOUSTON REFINING LP, a Delaware limited partnership, LYONDELLBASELL ACETYLS LLC, a Delaware limited liability company, LYONDELL CHEMICAL TECHNOLOGY, L.P., a Delaware limited partnership and each other Grantor.

WHEREAS, LYONDELLBASELL INDUSTRIES N.V., a *naamloze vennootschap* (a public limited liability company) formed under the laws of The Netherlands, Lyondell, and Wilmington Trust, National Association (successor by merger to Wilmington Trust FSB) as trustee entered into that certain Amended and Restated Indenture, dated as of April 30, 2010 (the "**Indenture**");

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

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

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

WHEREAS, the Grantors have requested that the Collateral Agent enter into this Release in order to 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.

**DEUTSCHE BANK TRUST COMPANY AMERICAS  
as Collateral Agent**

**By: Deutsche Bank National Trust Company**

By:   
Name: **Jeffrey Schoenfeld**  
Title: **Assistant Vice President**

By:   
Name: **Kelvin Vargas**  
Title: **Associate**

**ANNEX A**

**PATENTS**

**Annex A**

**TRADEMARK**  
**REEL: 005211 FRAME: 0158**

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	PREPARATION OF ACETIC ACID
12/315887	PURIFICATION OF ULTRALOW SULFUR DIESEL FUEL
12/316948	DIRECT EPOXIDATION PROCESS USING IMPROVED CATALYST
12/317012	SPRAY DRIED ZEOLIT CATALYST
12/317749	PROPYLENE PRODUCTION
12/317794	CATALYST REGENERATION
12/317873	PROPYLENE OXIDE REACTOR GAS DISTRIBUTION SYSTEM
12/319247	ALLYL DIACETATE DECOMPOSITION
12/322650	DEHYDRATION OF 1-PHENYL ETHANOL
12/383347	REMOVING HYDROCARBON IMPURITIES FROM ACETIC ACID PRODUCTION INTERMEDIATE
12/383896	EXTRACTIVE DISTILLATION OF CONJUGATED DIENE
12/383904	HYDROFORMYLATION PROCESS
12/454156	DIRECT EPOXIDATION USING MODIFIERS
12/456,090	EPOXIDATION PROCESS
12/459065	PROCESS FOR MAKING GLYCOL ETHER COMPOSITIONS USEFUL FOR METAL RECOVERY
12/460225	

TRADEMARK

REEL: 005211 FRAME: 0159

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 PROCESS
12/655099	TITANIA-ALUMINA SUPPORTED PALLADIUM CATALYST
12/657893	PROPYLENE OXIDE PROCESS
12/657896	PROCESS FOR MAKING TITANIUM-MWW ZEOLITE
12/658029	PROCESS FOR PRODUCING ALLYL ALCOHOL
12/660372	PROCESSING OF ACID CONTAINING HYDROCARBONS
12/798060	CATALYTIC HYDROGENATION PROCESS
12/798195	PURIFICATION OF PROPYLENE OXIDE
12/798297	PREPARATION OF ACETIC ACID
12/798598	METHOD FOR CONVERTING LIGHT HYDROCARBONS TO OLEFINS, GASOLINE AND METHANOL
5026934	OLEFIN CONVERSION PROCESS
5300718	PRODUCTION OF HYDROGEN PEROXIDE
5039508	CYCLOHEXANE OXIDATION
5043481	PRODUCTION OF OLEFINS
5043522	OLEFIN SKELETAL ISOMERIZATION
5107050	CONVERSION OF PARAFFINS TO OLEFINS
5146034	TERTIARY BUTYL ALCOHOL PREPARATION
5162593	PREPARATION OF TETRAHYDROFURAN USING A SUPPORTED TRANSITION METAL
5166370	EPOXIDATE TREATMENT
5171868	PRODUCTION OF OLEFINS
5171921	HYDROCARBON CONVERSION
5198590	PROCESS FOR THE PREPARATION OF A GLYCOL ETHER ESTER
5202463	RECOVERY OF GROUP VIII TRANSITION METALS FROM ORGANIC SOLUTIONS USING ACIDIC ION-EXCHANGE RESINS
5208194	PREPARATION OF TETRAHYDROFURAN POLYMERS HAVING A NARROW MOLECULAR WEIGHT DISTRIBUTION USING AN AMORPHOUS SILICA-ALUMINA CATALYST
5208385	HYDROFORMYLATION PROCESS AND BIMETALLIC CATALYST THEREFOR
5233093	OIL-ABSORBENT COMPOSITIONS
5239007	ALKYLENE OXIDE ISOMERIZATION PROCESS AND CATALYST
5262371	HYDROFORMYLATION PROCESS AND BIMETALLIC CATALYST THEREFOR
5276210	RESIDUAL STREAM UPGRADING IN A PROPYLENE OXIDE-STYRENE MONOMER PROCESS
5276235	PROCESS FOR REGENERATING A DEACTIVATED RHODIUM HYDROFORMYLATION CATALYST SYSTEM
5290743	ALKYLENE OXIDE ISOMERIZATION PROCESS AND CATALYST
5292974	DIESEL FUEL
5308365	INTEGRATED PROCESS FOR THE PRODUCTION OF DITERTIARY BUTYL PEROXIDE
5312998	



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 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
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
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	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 <sub>2</sub> O <sub>2</sub> 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
7381673	DIRECT EPOXIDATION CATALYST
7387981	DIRECT EPOXIDATION CATALYST AND PROCESS
7390919	METHYL ACETATE PURIFICATION AND CARBONYLATION
	PROCESS FOR DIRECT OXIDATION OF PROPYLENE TO PROPYLENE OXIDE AND
7399726	LARGE PARTICLE SIZE TITANIUM SILICALITE CATALYSTS FOR USE THEREIN
7414164	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 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  
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  
PROCESS FOR PRODUCING MULTI-LAYER STRUCTURES HAVING IMPROVED  
11/651265 METAL ADHESION  
11/698591 MDO MULTILAYER POLYETHYLENE FILM  
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  
IMPROVED TIE-LAYER ADHESIVES FOR STYRENE POLYMERS AND  
12/006370 ARTICLES  
OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL/CONDENSATE  
12/006435 FEEDSTOCK WITH A PARTITIONED VAPORIZATION UNIT  
12/006532 PREPARATION 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  
 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  
 12/313575 CATALYSTS  
 12/313576 PROCESS FOR MAKING ETHYLENE HOMOPOLYMERS  
 12/315552 PREPARATION OF MULTIMODAL POLYETHYLENE  
 12/319486 PREPARATION OF POLYOLEFIN-BASED ADHESIVES  
 12/380455 EXTRUSION COATED ARTICLE  
 12/380519 POLYOLEFIN COMPOSITION HAVING IMPROVED OXIDATIVE STABILITY  
 12/383967 PROCESSING OF ACID CONTAINING HYDROCARBONS  
 12/383989 PROCESSING OF ACID CONTAINING HYDROCARBONS  
 12/383990 PROCESSING OF ACID CONTAINING HYDROCARBONS  
 12/387074 POLYETHYLENE PIPE RESINS  
 12/454778 FRACTIONAL EXTRACTION OF BUTADIENE  
 12/454780 PREPARATION OF POLYOLEFIN-BASED ADHESIVES  
 12/456,403 HEAT-SHRINKABLE FILM  
 12/456635 DOUBLE CONTAINMENT VALVE SYSTEM  
 POLYETHYLENE COMPOSITIONS COMPRISING A POLAR PHENOLIC  
 ANTIOXIDANT AND REDUCED DISSIPATION FACTOR, AND METHODS  
 12/460304 THEREOF  
 12/460621 CATALYSTS BASED ON 2-ARYL-8-ANILINOQUINOLINE LIGANDS  
 12/460628 METHOD OF PREPARING NON-METALLOCENE CATALYSTS  
 12/460640 METHOD OF PREPARING NON-METALLOCENE CATALYSTS  
 12/462021 METHOD FOR LOCATING THE SURFACE OF A POLYMER PARTICLE BED  
 12/462163 IMPROVED ADHESIVE COMPOSITIONS  
 12/583547 POLYOLEFIN COMPOSITION AND FILM THEREOF  
 12/587148 INDAZOLE-MODIFIED ZIEGLER-NATTA CATALYST SYSTEM  
 12/587186 NITROSO-MODIFIED ZIEGLER-NATTA CATALYST SYSTEM  
 12/587187 PYRIDIZINE-MODIFIED ZIEGLER-NATTA CATALYST SYSTEM  
 2-HYDROXYPYRIDINE N-OXIDE-MODIFIED ZIEGLER-NATTA CATALYST  
 12/587188 SYSTEM  
 POLYOLEFIN-BASED ADHESIVES HAVING IMPROVED OXIDATIVE  
 12/590224 STABILITY  
 PREPARATION 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
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	POLYERMIZATION 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 POLYMERIZATION OF ALPHA-OLEFINS WITH TRANSITION METAL CATALYSTS BASED ON BIDENTATE LIGANDS CONTAINING PYRIDINE OR QUINOLINE MOIETY
5637660	SEMICONDUCTIVE EXTRUDABLE POLYOLEFIN COMPOSITIONS AND ARTICLES
5733480	AZABOROLINYL METAL COMPLEXES AS OLEFIN POLYMERIZATION CATALYSTS
5902866	PROCESS FOR THE MANUFACTURE OF ETHYLENE/VINYL ACETATE/VINYL ALCOHOL TERPOLYMER
5955538	POLYETHYLENE FILM COMPOSITION HAVING BROAD MOLECULAR WEIGHT DISTRIBUTION AND IMPROVED BUBBLE STABILITY
5962598	BORABENZENE BASED OLEFIN POLYMERIZATION CATALYSTS CONTAINING A GROUP 3-10 METAL
6034027	SUPPORTED SINGLE-SITE CATALYST AND OLEFIN POLYMERIZATION PROCESS
6040261	PROCESS FOR ISOMERIZING LINEAR OLEFINS TO ISOOLEFINS
6111160	MODIFIED POLYSILOXANE CATALYSTS AND METHOD OF USING THE SAME
6121183	OLEFIN POLYMERIZATION PROCESS
6127484	PROCESS FOR PRODUCING POLYETHYLENE FILM COMPOSITION HAVING BROAD MOLECULAR WEIGHT DISTRIBUTION AND IMPROVED BUBBLE STABILITY
6147167	ENHANCED-IMPACT LLDPE WITH A SHEAR MODIFIABLE NETWORK STRUCTURE
6171993	ETHYLENE POLYMERIZATION CATALYST AND CATALYST SYSTEM
6184169	ETHYLENE POLYMERIZATION CATALYST AND CATALYST SYSTEM
6194339	POLYOLEFIN CONCENTRATES AND COMPOSITIONS HAVING IMPROVED CARBON BLACK DISPERSION
6197852	OLEFIN POLYMERIZATION PROCESS WITH FATTY AMINE ADDITIVES FOR IMPROVED ACTIVITY AND REDUCED FOULING
6201076	OLEFIN POLYMERIZATION CATALYSTS CONTAINING AMINE DERIVATTIVES
6204216	SUPPORTED OLEFIN POLYMERIZATION CATALYST
6211311	AZABOROLINYL METAL COMPLEXES AS OLEFIN POLYMERIZATION CATALYSTS
6228958	SINGLE-SITE CATALYSTS CONTAINING HOMOAROMATIC LIGANDS
6228959	SINGLE-SITE CATALYSTS FOR OLEFIN POLYMERIZATION
6232260	QUINOLINOXY AND PYRIDINOXY SINGLE-SITE CATALYSTS CONTAINING
6239239	

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



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  
 OLEFIN POLYMERIZATION CATALYSTS CONTAINING TRIQUINANE  
 6875879 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 LTM POLYMERIZATION OF UNSATURATED MONOMERS  
 6903169 OLEFIN POLYMERIZATION PROCESS USING TRISOBUTYLALUMINUM 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  
 6921804 DISENGAGEMENT VESSEL BETWEEN REACTORS  
 PROCESS FOR REMOVAL OF INTERMEDIATE HYDROGEN FROM CASCADED  
 6924340 POLYOLEFIN SLURRY REACTORS  
 6927310 TRIPROPYLENE GLYCOL PRODUCTION  
 6930156 POLYMER BOUND SINGLE-SITE CATALYSTS  
 6933353 OLEFIN POLYMERIZATION PROCESS  
 ALUMINOBORONATE ACTIVATORS FOR SINGLE-SITE OLEFIN  
 6933354 POLYMERIZATION CATALYSTS  
 CROSSLINKABLE WIRE AND CABLE COMPOSITIONS HAVING IMPROVED  
 6936655 ABRASION RESISTANCE  
 6936671 PROCESS FOR COPOLYMERIZING ETHYLENE WITH VINYL SILANES  
 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  
 PROCESS FOR MAKING POLYOLEFIN COMPOSITIONS CONTAINING  
 6979718 EXFOLIATED CLAY  
 OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL AND MILD  
 6979757 CONTROLLED CAVITATION ASSISTED CRACKING  
 OLEFIN POLYMERIZATION CATALYSTS BASED ON HYDROXYL-DEPLETED  
 6984599 CALIXARENE LIGANDS  
 FLAME RETARDANT INSULATION COMPOSITION HAVING IMPROVED  
 6984677 SCORCH RESISTANCE  
 6995216 PROCESS FOR MANUFACTURING SINGLE-SITE POLYOLEFINS

6995220	ETHYLENE POLYMERIZATION PROCESS
6998443	FLAME RETARDANT INSULATION COMPOSITIONS HAVING IMPROVED
6998451	ABRASION RESISTANCE
7005489	OLEFIN POLYMERIZATION PROCESS
7011892	ZWITTERIONIC METALLOCYCLES
7019073	PREPARATION OF POLYETHYLENE FILMS
7019187	METHOD FOR PREPARING CYCLODEXTRIN-POLYOLEFIN BLENDS AND
7022785	PRODUCTS MADE THEREFROM
7026415	OLEFIN PRODUCTION UTILIZING WHOLE CRUDE OIL AND MILD CATALYTIC
7030188	CRACKING
7037970	DIIMINE COMPLEXES FOR OLEFIN POLYMERIZATION
7041862	CLATHROCHELATES AS OLEFIN POLYMERIZATION CATALYST
7043938	COMPONENTS
7049262	IMPROVED MULTI-PHASE POLYPROPYLENE COMPOSITIONS
7056097	PROCESS FOR INCREASING THE MELT STRENGTH OF ETHYLENE-VINYL
7071259	CARBOXYLATE COPOLYMERS
7074976	THERMAL CRACKING OF DIELS-ALDER ADDUCTS
7078081	METHOD OF THAWING A CRYOGENIC UNIT
7078362	CRYOGENIC METHOD FOR FORMING A SUPPORTED CATALYST
7091291	SYSTEM AND METHOD FOR MONITORING THE MECHANICAL CONDITION
7094723	OF A RECIPROCATING COMPRESSOR
7122497	FUNCTIONALIZED PROPYLENE POLYMER COMPOSITIONS AND
7125929	COMPOSITES CONTAINING SAME
7125939	PROPYLENE PRODUCTION
7144964	PREPARATION OF POLYETHYLENE FILMS
7151145	CARBENE DONOR-MODIFIED ZIEGLER-NATTA CATALYSTS
7183348	OLEFIN POLYMERIZATION PROCESS
7189675	CATALYSTS CONTAINING AT LEAST ONE HETEROCYCLIC LIGAND FOR
7196147	IMPROVING THE CATALYSTS' PERFORMANCE OF OLEFIN POLYMERIZATION
7230054	OLEFIN POLYMERIZATION CATALYST
7230056	ADHESIVE COMPOSITION HAVING IMPROVED CLARITY FOR COEXTRUDED
7232604	BARRIER FILMS
7238754	OLEFIN POLYMERIZATION WITH POLYMER BOUND SINGLE-SITE
7238765	CATALYSTS
7270740	SOLUTION POLYMERIZATION PROCESS UTILIZING PREASSEMBLED
7273914	BIMETALLIC ZIEGLER-NATTA CATALYST
7326823	PROCESS FOR NARROWING SHORT-CHAIN BRANCHING DISTRIBUTION IN
7348371	TWO-STEP ETHYLENE POLYMERIZATIONS AND PRODUCTS
7348466	SHEAR MODIFICATION OF POLYOLEFIN-CLAY NANOCOMPOSITES
	OLEFIN POLYMERIZATION CATALYST ON PLASMA-CONTACTED SUPPORT
	OLEFIN POLYMERIZATION PROCESS WITH IMPROVED OPERABILITY AND
	POLYMER PROPERTIES
	POLYMER RESINS WITH IMPROVED ENVIRONMENTAL STRESS CRACK
	RESISTANCE
	IMPROVED CATALYST PREPARATION METHOD
	FLAME RETARDANT CROSSLINKABLE COMPOSITIONS AND ARTICLES
	SOLID STATE PROCESS TO MODIFY THE MELT CHARACTERISTICS OF
	POLYETHYLENE RESINS AND PRODUCTS
	IMPROVED HIGH DENSITY POLYETHYLENE AND INSULATION
	COMPOSITIONS FOR WIRE AND CABLE
	STARTUP OF AN OLEFINS PRODUCTION PLANT
	OLEFIN POLYMERIZATION METHODS
	AROMATIC COMPOUND RECOVERY
	CELLULOSIC-REINFORCED COMPOSITES HAVING INCREASED RESISTANCE
	TO WATER ABSORPTION
	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 ZIEGLER 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  
 PHENOMENA TAKE PLACE  
 7491259 METHOD FOR TEMPORARY CLOSING AND REOPENING OF A REACTOR TUBE  
 7491368 SAMPLING METHOD  
 7493800 WHITE POLYOLEFIN COMPOSITIONS HAVING REDUCED DIRT  
 7528185 PLUG-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 PROPYLENE ELASTOMER-CONTAINING ADHESIVE BLENDS  
 7687575 ETHYLENE RECOVERY FROM A POLYMERIZATION PROCESS  
 7709585 TOLUENE PRODUCTION  
 7709693

**PATENTS OWNED BY LYONDELLBASELL ACETYS, 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 ACETYS, 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 trans-ISOCARVEOL
Application Number not yet received	PROCESS FOR MAKING PERILLYL ALCOHOL
6114565	PROCESS FOR OBTAINING NITRILES
6423874	PROCESS FOR OBTAINING FRAGRANT KETONE
6482983	PROCESS FOR OBTAINING N-MONOSUBSTITUTED AMIDES
6515186	PROCESS FOR OBTAINING ALPHA-CAMPHOLENIC ALDEHYDE
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
7560598	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: 0174**

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, L.P
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	2091638	Equistar Chemicals, LP
United States of America	INTEGRATE	2946794	Equistar Chemicals, LP
United States of America	ISOMPLUS	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	77/141246	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: 0177**

Schedule 11(b)

Copyrights

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None