

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT5651092

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	TERMINATION AND RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RIVERSTONE CREDIT PARTNERS, L.P.	08/02/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TPC GROUP, LLC
<b>Street Address:</b>	ONE ALLEN CENTER
<b>Internal Address:</b>	SUITE 1000
<b>City:</b>	HOUSTON
<b>State/Country:</b>	TEXAS
<b>Postal Code:</b>	77002
<b>PROPERTY NUMBERS Total: 28</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	9115038
Application Number:	14799808
Patent Number:	6562913
Patent Number:	6525149
Patent Number:	7037999
Patent Number:	6992152
Patent Number:	6683138
Patent Number:	6884858
Patent Number:	6858188
Patent Number:	6844401
Patent Number:	6844400
Patent Number:	6777506
Patent Number:	7091285
Patent Number:	7056990
Patent Number:	7645847
Patent Number:	7498396
Patent Number:	7329635
Application Number:	12932837
Patent Number:	8524843

PATENT

Property Type	Number
Patent Number:	8946361
Application Number:	14346860
Patent Number:	9074026
Application Number:	14386550
Application Number:	13903497
Application Number:	14771227
Application Number:	14771302
Application Number:	62212620
Application Number:	14324428

#### CORRESPONDENCE DATA

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<b>ATTORNEY DOCKET NUMBER:</b>	001396/0006
<b>NAME OF SUBMITTER:</b>	MELANIE JOLSON
<b>SIGNATURE:</b>	/MJ/
<b>DATE SIGNED:</b>	08/02/2019

#### Total Attachments: 9

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**TERMINATION AND RELEASE OF SECURITY INTEREST  
IN INTELLECTUAL PROPERTY**

This Termination and Release of Security Interest in Intellectual Property (this “**Release**”) is granted on this 2nd day of August, 2019, by Riverstone Credit Partners, L.P. (“**Riverstone**”), as collateral agent under the Security Agreement referenced below, in favor of TPC Group, LLC (“**Grantor**”), with respect to the Marks and Patents (each as defined below).

**W I T N E S S E T H :**

WHEREAS, pursuant to that certain Security Agreement dated as of January 15, 2016 (as amended, restated, supplemented, modified, extended, renewed or replaced from time to time, the “**Security Agreement**”) by and between Riverstone and Grantor, Grantor granted Riverstone a continuing security interest in all of Grantor’s right, title and interest in, to and under (i) all of the Grantor’s right, title and interest in and to the United States trademarks, trademark registrations and trademark applications (the “**Marks**”) set forth on Schedule A attached hereto, (ii) all of the Grantor’s right, title and interest in and to the United States patents and pending patent applications (the “**Patents**”) set forth on Schedule B attached hereto, in each case together with (iii) all Proceeds (as such term is defined in the Security Agreement) of the Marks and Patents;

WHEREAS, pursuant to the Security Agreement, Grantor executed and delivered to Riverstone the Patent and Trademark Security Agreement dated as of January 15, 2016 (the “**IP Security Agreement**”);

WHEREAS, the IP Security Agreement was recorded in the Patent Division of the United States Patent and Trademark Office on January 15, 2016 at Reel 37499 and Frame 246; and

WHEREAS, the indebtedness described in and the obligations under the Security Agreement and all security interests in the Marks and Patents are fully discharged and released and the Security Agreement and the IP Security Agreement are canceled and terminated.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Riverstone hereby agrees as follows:

1. Riverstone hereby absolutely, unconditionally and irrevocably releases, terminates and forever discharges each security interest in the Marks and Patents that was granted to Riverstone under the Security Agreement or the IP Security Agreement, and any and all other security interests or liens that Riverstone or its predecessors, successors and assigns may have in or to the Marks and Patents under the Security Agreement or the IP Security Agreement.

2. The parties hereto authorize and request the U.S. Patent and Trademark Office of the United States of America to record this Release against the Marks and Patents. Riverstone agrees to perform all further acts and execute and deliver all further documents and/or instruments that may be reasonably necessary to carry out the provisions of this Release.
3. Riverstone hereby represents and warrants that it has full authority to execute and deliver this Release. To the extent that any other filings with any other governmental authority have been made with respect to any of the Marks and/or Patents, Riverstone will execute and deliver a reasonable release or other instrument that will terminate any such filing and/or release any interests conveyed therein.
4. This Release shall be governed by and construed in accordance with the law of the State of New York.
5. This Release shall be binding upon Riverstone's representatives, successors, assigns and transferees.

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IN WITNESS WHEREOF, the undersigned has caused this Release to be executed by its duly authorized representatives as of the date first above written.

RIVERSTONE CREDIT PARTNERS, L.P.

By: RCP F1, L.P., its general partner,

By: RCP F1 GP, L.L.C., its general partner.



By:

Name: *Peter Haskopoulos*

Title: *Authorized Signatory*

Schedule A

U.S. Trademark Registrations

Trademark	Trademark Name	Country	Serial No.	Filing Date	Registration No.	Registration Date	Owner
	P	U.S.	85/042,245	5/19/10	3,996,172	7/19/11	TPC Group LLC
	TPC	US	85/316,712	5/10/11	4,070,662	12/13/11	TPC Group LLC
	TPC Group OXO-D	US	85/460/378				TPC Group LLC

Schedule BU.S. Issued Patents and Pending Patent Applications

Matter No.	Title	Country	Serial No.	Filing Date	Patent No.	Issue Date	Owner
TPC-10-1	Process for Selective Removal of Acetylenes from Gaseous Streams	U.S.	13/332,985 (61/459,978)	12/21/11 (12/22/10)	9,115,038	8/25/15	TPC Group LLC
TPC-10-1A	Process for Selective Removal of Acetylenes from Gaseous Streams	U.S.	14/799,808	7/15/15			
TPC-10-3	Process For Producing High Vinylidene Polyisobutylene	U.S.	09/515,790	2/29/00	6,562,913	5/13/03	TPC Group LLC
TPC-10-4	Process For Preparing Polyolefin Products	U.S.	09/665,084 (60/154,263; 60/160,357/ 09/515,790)	9/20/00 (9/1/99; 10/19/99; 2/29/00)	6,525,149	2/25/03	TPC Group LLC
TPC-10-5	Mid-Range Vinylidene Content Polyisobutylene Polymer Product and Process For Producing The Same	U.S.	10/102,279	3/19/02	7,037,999	5/2/06	TPC Group LLC
TPC-10-7	Apparatus and Method for Controlling Olefin Polymerization Process	US	10/922,181	8/19/04	6,992,152	1/31/06	TPC Group LLC
TPC-10-9	Process For Producing High Vinylidene Polyisobutylene	US (cont. of TPC-10-3)	10/334,639	12/31/02	6,683,138	1/27/04	TPC Group LLC

Matter No.	Title	Country	Serial No.	Filing Date	Patent No.	Issue Date	Owner
TPC-10-11	Process for Preparing Polyolefin Products	US  (cont.of TPC-10-4)	10/208,234	7/30/02	6,884,858	4/26/05	TPC Group LLC
TPC-10-12	Apparatus for Preparing Polyolefin Products and Methodology for Using the Same	US	10/434,805	5/9/03	6,858,188	2/22/05	TPC Group LLC
TPC-10-13	Apparatus for Preparing Polyolefin Products and Methodology for Using the Same	US	10/758,499	1/15/04	6,844,401	1/18/05	TPC Group LLC
TPC-10-14	Apparatus for Preparing Polyolefin Products and Methodology for Using the Same	US  (division of TPC-10-12)	10/758,168	1/15/04	6,844,400	1/18/05	TPC Group LLC
TPC-10-15	Apparatus for Preparing Polyolefin Products and Methodology for Using the Same	US  (division of TPC-10-12)	10/757,748	1/15/04	6,777,506	8/17/04	TPC Group LLC
TPC-10-17	Adducts of Mid-range Vinylidene Content Polyisobutylene Polymer Products and Methods For Making Same	US	10/896,792	7/22/04	7,091,285	8/15/06	TPC Group LLC



Matter No.	Title	Country	Serial No.	Filing Date	Patent No.	Issue Date	Owner
TPC-10-18	Process For Producing Mid-range Vinylidene Content Polyisobutylene Polymer Products	US  (CIP of TPC-10-11 which is a continuation of TPC-10-5)	10/968,630	10/19/04	7,056,990	6/6/06	TPC Group LLC
TPC-10-19	Process for Preparing Polyolefin Products	US  (cont. of TPC-10-11)	10/962,920	10/12/04	7,645,847	1/12/10	TPC Group LLC
TPC-10-20	Mid-range Vinylidene Content Polyisobutylene Polymer Product Produced by Liquid Phase Polymerization Process	US  (cont.of TPC-10-18)	11/281,746	11/17/05	7,498,396	3/3/09	TPC Group LLC
TPC-10-21	Crude oil Composition Including Dispersant Material for Mitigating Fouling of Process Equipment and Method for Mitigating Crude Oil Fouling	US	11/634,668	12/6/06	7,329,635	2/18/08	TPC Group LLC

Matter No.	Title	Country	Serial No.	Filing Date	Patent No.	Issue Date	Owner
TPC-10-22	Polyisobutylene Production Process With Improved Efficiencies and/or for Forming Products Having Improved Characteristics and Polyisobutylene Products Produces Thereby	US	12/932,837	3/8/11	TPC Group LLC		
TPC-11-1	Production of Highly Reactive Low Molecular Weight PIB Oligomers	US	13/489,064 (61/520,328)	6/5/12 (6/8/11)	8,524,843	9/13/13	TPC Group LLC
TPC-11-5A	Polyisobutylene Prepared at High Velocity and Circulation Rate	US	14/346,367	3/21/14	8,946,361	2/3/15	TPC Group LLC
TPC-11-5B	Mid-Range Vinylidene Content, High Viscosity Polyisobutylene Polymer	US	14/346,860	3/24/14			
TPC-11-5C	Polyisobutylene Prepared with Low Diluent Content Reaction Medium	US	14/347,695	3/27/14	9,074,026	7/7/15	
TPC-11-8	Improved Controllability Oxidative Dehydrogenation Process for Producing Butadiene (OXO-D)	US	14/386,550	9/19/14			TPC Group LLC

Matter No.	Title	Country	Serial No.	Filing Date	Patent No.	Issue Date	Owner
TPC-12-3	Adducts of Low Molecular Weight PIB With Low Polydispersity and High Vinylidene Content	US	13/903,497	5/28/13			TPC Group LLC
TPC-13-1	Oxidative Dehydrogenation Process With Hydrocarbon Moderator Gas and Reduced Nitrogen Feed	US	14/771,227	8/28/15			TPC Group LLC
TPC-13-2	Multi-Stage Oxidative Dehydrogenation Process with Inter-Stage Cooling	US	14/771,302	8/28/15			TPC Group LLC
TPC-13-2A	High Throughput Oxidative Dehydrogenation Process	US	62/212,620	9/1/15			TPC Group LLC
TPC-13-4A	Manufacture of Butadiene from Ethylene	US	14/324,428	7/7/14			TPC Group LLC