

PATENT ASSIGNMENT

Electronic Version v1.1
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| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | |
|---|--------------------------------|----------------------|---------------------|--------------------------------|------------|------------|----------------|------------|----------------|------------|--|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Masato Murakami</td><td>06/28/2011</td></tr><tr><td>Koji Shiba</td><td>06/28/2011</td></tr><tr><td>Takeshi Shoda</td><td>06/30/2011</td></tr><tr><td>Mitsuharu Anbe</td><td>06/30/2011</td></tr></tbody></table> | Name | Execution Date | Masato Murakami | 06/28/2011 | Koji Shiba | 06/28/2011 | Takeshi Shoda | 06/30/2011 | Mitsuharu Anbe | 06/30/2011 | |
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| <table border="1"><tr><td>Name:</td><td>Ube Industries, Ltd.</td></tr><tr><td>Street Address:</td><td>1978-96, Oaza Kogushi, Ube-shi</td></tr><tr><td>City:</td><td>Yamaguchi</td></tr><tr><td>State/Country:</td><td>JAPAN</td></tr><tr><td>Postal Code:</td><td>755-8633</td></tr></table> | Name: | Ube Industries, Ltd. | Street Address: | 1978-96, Oaza Kogushi, Ube-shi | City: | Yamaguchi | State/Country: | JAPAN | Postal Code: | 755-8633 | |
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| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>13133084</td></tr></tbody></table> | Property Type | Number | Application Number: | 13133084 | | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Application Number: | 13133084 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
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| NAME OF SUBMITTER: | James R. Foley | | | | | | | | | | |
| Total Attachments: 1 source=Assignment 143-PCT-US#page1.tif | | | | | | | | | | | |

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PATENT
REEL: 026556 FRAME: 0581

ASSIGNMENT

WHEREAS, we, Masato Murakami of c/o Ube Industries, Ltd., 8-1, Goi-Minamikaigan, Ichihara-shi, Chiba 290-0045, Japan, Koji Shiba of c/o Ube Industries, Ltd., 8-1, Goi-Minamikaigan, Ichihara-shi, Chiba 290-0045, Japan, Takeshi Shoda of c/o Ube Industries, Ltd., 8-1, Goi-Minamikaigan, Ichihara-shi, Chiba 290-0045, Japan and Mitsuharu Anbe of c/o Ube Industries, Ltd., 8-1, Goi-Minamikaigan, Ichihara-shi, Chiba 290-0045, Japan, have invented certain new and useful improvements in **CONJUGATED DIENE POLYMER MANUFACTURING METHOD, POLYBUTADIENE, AND RUBBER COMPOSITION UTILIZING THE SAME** for which a United States Patent Application was filed on June 6, 2011 and has been assigned application Serial No.: 13/133,084; and

WHEREAS, **UBE INDUSTRIES, LTD.**, a company organized and existing under the laws of Japan having its principal place of business at 1978-96, Oaza Kogushi, Ube-shi, Yamaguchi 755-8633, Japan (hereinafter referred to as "**ASSIGNEE**"), is desirous of acquiring the entire right, title and interest in and to said invention, said application, and in, to and under all Letters Patent of the United States and foreign countries that may be granted therefor or claiming priority therefrom;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration to us in hand paid by said ASSIGNEE, the receipt of which is hereby acknowledged, we, said Masato Murakami, Koji Shiba, Takeshi Shoda and Mitsuharu Anbe, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to and unto said ASSIGNEE, its successors and assigns, for, within and throughout the United States and the territories thereof, and all foreign countries, the entire right, title and interest in and to said invention, and in, to and under said application, and all Letters Patent of the United States and foreign countries (including all priority rights that we may have or acquire under any International Convention or treaty) that may be granted for or claim priority from said invention and improvements, including divisions, reissues, subdivisions, continuations and prolongations of such applications and Letters Patent, to have and to hold for the sole and exclusive use and benefit of said ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patents for said invention may issue.

We do hereby covenant and agree, for ourselves, our heirs and our legal representatives, that we will assist said ASSIGNEE in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that said ASSIGNEE may elect to make covering the invention herein identified, as hereinbefore set forth; in vesting in said ASSIGNEE like exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patent herein contemplated; and that we will execute and deliver to said ASSIGNEE any and all additional papers that may be requested by said ASSIGNEE to fully carry out the terms of this assignment.

And we do hereby authorize and request the Commissioner of Patents to issue all Letters Patent of the United States that may be granted claiming priority from the application aforesaid, or for said invention, to said ASSIGNEE, its successors and assigns, in accordance with this assignment.

Date: June 28th, 2011

Name: Masato Murakami
Masato Murakami

Date: June 28th, 2011

Name: Koji Shiba
Koji Shiba

Date: June 30th, 2011

Name: Takeshi Shoda
Takeshi Shoda

Date: June 30th, 2011

Name: Mitsuharu Anbe
Mitsuharu Anbe