

## 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>Takumi ODA</td> <td>04/19/2012</td> </tr> <tr> <td>Hideki SHIMA</td> <td>04/19/2012</td> </tr> </tbody> </table>   |  | Name          | Execution Date               | Takumi ODA          | 04/19/2012                       | Hideki SHIMA | 04/19/2012       |                |       |              |          |
| Name   | Execution Date                         |               |                              |                     |                                  |              |                  |                |       |              |          |
| Takumi ODA   | 04/19/2012                             |               |                              |                     |                                  |              |                  |                |       |              |          |
| Hideki SHIMA   | 04/19/2012                             |               |                              |                     |                                  |              |                  |                |       |              |          |
| RECEIVING PARTY DATA   |  |               |                              |                     |                                  |              |                  |                |       |              |          |
| <table border="1"> <tr> <td>Name:</td> <td>Toyo Tire &amp; Rubber Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>17-18, Edobori 1-chome, Nishi-ku</td> </tr> <tr> <td>City:</td> <td>Osaka-shi, Osaka</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>550-8661</td> </tr> </table> |  | Name:         | Toyo Tire & Rubber Co., Ltd. | Street Address:     | 17-18, Edobori 1-chome, Nishi-ku | City:        | Osaka-shi, Osaka | State/Country: | JAPAN | Postal Code: | 550-8661 |
| Name:  | Toyo Tire & Rubber Co., Ltd.           |               |                              |                     |                                  |              |                  |                |       |              |          |
| Street Address:  | 17-18, Edobori 1-chome, Nishi-ku       |               |                              |                     |                                  |              |                  |                |       |              |          |
| City:  | Osaka-shi, Osaka                       |               |                              |                     |                                  |              |                  |                |       |              |          |
| State/Country:   | JAPAN                                  |               |                              |                     |                                  |              |                  |                |       |              |          |
| Postal Code:   | 550-8661                               |               |                              |                     |                                  |              |                  |                |       |              |          |
| 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>13461350</td> </tr> </tbody> </table>  |  | Property Type | Number                       | Application Number: | 13461350                         |              |                  |                |       |              |          |
| Property Type  | Number                                 |               |                              |                     |                                  |              |                  |                |       |              |          |
| Application Number:  | 13461350                               |               |                              |                     |                                  |              |                  |                |       |              |          |
| CORRESPONDENCE DATA  |  |               |                              |                     |                                  |              |                  |                |       |              |          |
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| NAME OF SUBMITTER:   | Crystal Boyer                          |               |                              |                     |                                  |              |                  |                |       |              |          |
| Total Attachments: 1<br>source=Assignment#page1.tif  |  |               |                              |                     |                                  |              |                  |                |       |              |          |

OP \$40.00 13461350

# U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by  
**Toyo Tire & Rubber Co., Ltd.**  
**17-18, Edobori 1-chome, Nishi-ku, Osaka-shi, Osaka 550-8661 Japan**

(Insert ASSIGNEE's Name(s) Address(es))

(hereinafter ASSIGNEE), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

(Title of invention)

**APPARATUS FOR PROCESSING RUBBER AND PROCESSING METHOD THEREFOR**

(\*If the assignment is being filed after the filing of the application, this section must be completed)

for which application for Letters Patent of the United States was executed on even date herewith unless otherwise indicated below:

\* filed on \_\_\_\_\_ Serial No. \_\_\_\_\_

(Westerman, Hattori, Daniels & Adrian, LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of the United States to be obtained therefore on said application or any continuation, divisional, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with the application and any continuation, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, divisional, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

(Signatures)

|                                    |                                    |                                 |
|------------------------------------|------------------------------------|---------------------------------|
| <u>Takumi Oda</u><br>(Signature)   | <u>Takumi ODA</u><br>(Type Name)   | <u>April 19, 2012</u><br>(Date) |
| <u>Hideki Shima</u><br>(Signature) | <u>Hideki SHIMA</u><br>(Type Name) | <u>April 19, 2012</u><br>(Date) |
| _____<br>(Signature)               | _____<br>(Type Name)               | _____<br>(Date)                 |
| _____<br>(Signature)               | _____<br>(Type Name)               | _____<br>(Date)                 |
| _____<br>(Signature)               | _____<br>(Type Name)               | _____<br>(Date)                 |
| _____<br>(Signature)               | _____<br>(Type Name)               | _____<br>(Date)                 |
| _____<br>(Signature)               | _____<br>(Type Name)               | _____<br>(Date)                 |

NO LEGALIZATION REQUIRED