

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHIN TSUKISHIMA	03/03/2017
MIYUKI OKA	03/01/2017
MAKOTO ASHIURA	03/01/2017
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<b>City:</b>	MINATO-KU, TOKYO
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	105-8685
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15502445
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<b>ATTORNEY DOCKET NUMBER:</b>	3138-484.PCT.US
<b>NAME OF SUBMITTER:</b>	RANDY M. BRAEGGER
<b>SIGNATURE:</b>	/Randy M. Braegger/
<b>DATE SIGNED:</b>	03/23/2017
<b>Total Attachments: 5</b>	
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WHEN RECORDED RETURN TO:  
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Attorney Docket No. 3138-484.PCT.US

## ASSIGNMENT

WHEREAS, we, Shin Tsukishima (resident of the State of Japan, whose postal mailing address is c/o THE YOKOHAMA RUBBER CO., LTD., Hiratsuka Factory, 2-1, Oiwake, Hiratsuka-shi, Kanagawa 254-8601), Miyuki Oka (resident of the State of Japan, whose postal mailing address is c/o THE YOKOHAMA RUBBER CO., LTD., Hiratsuka Factory, 2-1, Oiwake, Hiratsuka-shi, Kanagawa 254-8601) and Makoto Ashiura (resident of the State of Japan, whose postal mailing address is c/o THE YOKOHAMA RUBBER CO., LTD., Hiratsuka Factory, 2-1, Oiwake, Hiratsuka-shi, Kanagawa 254-8601), (hereinafter "Assignors") have invented a certain new and useful improvement in a RUBBER COMPOSITION AND PNEUMATIC TIRE USING THE SAME; for which an application for United States Letters Patent is being filed concurrently herewith OR which was filed on February 7, 2017 as THORPE NORTH & WESTERN, LLP Docket No. 3138-484.PCT.US, and given U.S. Patent Application Serial No. 15/502,445; and

WHEREAS, THE YOKOHAMA RUBBER CO., LTD., a Japanese corporation organized and existing under the laws of Japan, having a business address of 36-11 Shimbashi 5-chome, Minato-ku, Tokyo 105-8685, Japan, (hereinafter "Assignee"), is desirous of acquiring the entire right, title, and interest in the same;

NOW, THEREFORE, in consideration of one dollar (\$1.00) and other good and valuable consideration paid to us by the Assignee, the receipt and sufficiency whereof is hereby acknowledged, we the said Assignors, hereby grant and assign unto the said Assignee, our entire right, title and interest in said invention and in all patent applications based thereon, including but not limited to the above identified United States Patent Application and in all provisionals, divisions, continuations, and continuations-in-part of said application, or reissues or extensions of Letters Patent or Patents granted thereon, and in all corresponding applications filed in countries foreign to the United States, and in all patents issuing thereon in the United States and foreign countries; the right, power and authority to file and prosecute U.S. and foreign patent

applications on said invention, and to do so in its own name wherever such right may be legally exercised, and including the right to claim the priority and benefits of the International Convention for such applications; and the right to bring actions for infringement of any right in said invention in its own name, including past infringement, in any jurisdiction.

We hereby authorize and request the United States Commissioner of Patents and Trademarks, and such Patent Office officials in foreign countries as are duly authorized by their patent laws to issue patents, to issue any and all Letters Patent on said invention to the said Assignee as the owner of our entire interest, for the sole use and behoof of the said Assignee, its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by us had this assignment and sale not been made.

We hereby agree, without further consideration and without expense to us, to sign all lawful papers and to perform all other lawful acts which the Assignee may request of us to make this Assignment fully effective, including, by way of example but not of limitation, the following: prompt execution of all original, divisional, substitution, reissue, and other United States and foreign patent applications on said invention, and all lawful documents as requested by the Assignee to further the prosecution of any of such patent applications; cooperation to the best of our ability including, but not limited to, the execution of all lawful documents, the production of evidence in any actions or proceedings concerning the invention, including, but not limited to, nullification, reissuing, extension, and infringement proceedings involving said invention.

This assignment and agreement shall be binding upon our heirs and legal representatives.

Assignment of US Patent Application  
Atty Docket No: 3138-484.PCT.US  
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Executed this 3rd day of March, 2017 at Tokyo, Japan.



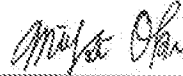
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Shin Tsukishima

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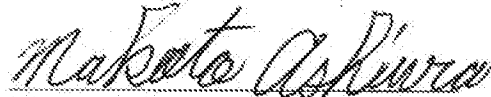
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Miyuki Oka

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Makoto Ashiura