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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ZENGQUAN QIN	04/01/2015
TERRENCE E. HOGAN	02/10/2016
TOSHIHIRO UCHIYAMA	02/15/2016
JOSHUA P. ABELL	04/04/2016
STEVEN LUO	04/01/2015

RECEIVING PARTY DATA

Name:	BRIDGESTONE CORPORATION		
Street Address:	dress: 1-1, KYOBASHI 3-CHOME, CHUO-KU		
City:	TOKYO		
State/Country:	te/Country: JAPAN		
Postal Code:	104-8340		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15420482

CORRESPONDENCE DATA

Fax Number: (330)379-4064

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (330) 379-3839 Email: iplawpat@bfusa.com

Correspondent Name:BRIDGESTONE AMERICAS, INC. **Address Line 1:**10 EAST FIRESTONE BLVD.

Address Line 4: AKRON, OHIO 44317

ATTORNEY DOCKET NUMBER: P10053US3A

NAME OF SUBMITTER: KATHIE J. KOPCZYK

SIGNATURE: /Kathie J. Kopczyk/

DATE SIGNED: 01/24/2018

Total Attachments: 5

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PATENT REEL: 044716 FRAME: 0625

ASSIGNMENT

We, Zengquan Qin, Terrence E. Hogan, Toshihiro Uchiyama, Joshua P. Abell and Steven Luo, have made an invention which now is described and claimed in an application for patent entitled Functionalized Polymer, which application

is being executed and filed concurrently herewith.

was filed on December 20, 2012 and now is designated as United States patent application number 14/369422.

NOW THEREFORE, pursuant to the obligations imposed by or arising under one or more of our employment agreement(s), advisor agreement(s), state or national statutes, common law, and administrative regulation, We hereby do make the following assignments —

To **BRIDGESTONE CORPORATION**, a corporation created and duly organized under the laws of the nation of Japan and having a place of business at Tokyo, Japan, and its successors and assigns, we hereby

- assign, transfer, and set over the full and exclusive right to the above-described invention and to the above-described application for letters patent of the United States as well as any substitute, continuation, continuation-in-part, or divisional application filed thereon, to any application for letters patent of the United States that claims priority from the above-described application, and to any letters patent of the United States that issues from such application(s) as well as any reissue application or request for reexamination filed on such letters patent;
- > covenant and agree for ourselves and our legal representative(s) to
 - a) assist said assignee and/or its designee(s), to the extent requested, in the prosecution of said application for patent, in any interference declared on said application for patent or patent issuing therefrom, or in litigation which arises out of or is based on said application for patent or patent issuing therefrom, and
 - b) execute all papers related to said application for patent which said assignee or its designee(s) request to be signed,

provided that expenses relating thereto shall be borne by said assignee; and

authorize and request the Commissioner of Patents and Trademarks to issue any letters patent of the United States relating to the above-described invention in the name of said assignee.

To **BRIDGESTONE CORPORATION**, a corporation created and duly organized under the laws of the nation of Japan and having a place of business at Tokyo, Japan, and its successors and assigns, we hereby

- > assign, transfer, and set over the full and exclusive right to any application for letters patent filed in any regional or national patent office other than the United States Patent and Trademark Office which application claims priority from the above-described application;
- > covenant and agree for ourselves and our legal representative(s) to
 - a) assist said assignee and/or its designee(s), to the extent requested, in the prosecution of any such applications for patent or in litigation which arises out of or is based on said application(s) for patent or patent(s) issuing therefrom, and
 - b) execute all papers related to said application(s) for patent which said assignee or its designee(s) request to be signed,

provided that expenses relating thereto shall be borne by said assignee.

Name: Zengquan Qin

Date

Date

IN WITNESS WHEREOF, we have executed this document on the dates next to our respective names.

Name: Toshihiro Uchiyama Date

Name: Terrence E. Hogan

Name: Joshua P. Abell Date

Steven Luo

Steven Luo

Date

IN WITNESS WHEREOF, we have exe	cuted this document on the dates next to our respective name
Name: Zengquan Qin	Date
Name: Terrence E. Hogan	2/10/2016 Date
Name: Toshihiro Uchiyama	Date
Name: Joshua P. Abell	Date
Name; Steven Luo	

IN WITNESS WHEREOF, we hav	e executed this document on the dates next to our respective name
Name: Zengquan Qin	Date
Name: Terrence E. Hogan	Date
	2/15/2016
Name: Toshihiro Uchiyama	Date
Name: Joshua P. Abell	Date
THE POSITION IN PROPERTY OF THE PROPERTY OF TH	Date
Name: Steven Luo	Date

IN W	ITNESS WHEREOF, we have e	executed this document on the date	s next to our respective names.
			s.
Name:	Zengquan Qin	Date	_
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Name:	Terrence E. Hogan	Date	
Name:	Toshihiro Uchiyama	Date	-
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Name:	ofoshua P. Abell	Date	

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Name:	Steven Luo	Date	