

## 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>
	BOTONG LI	12/14/2018
	MINGRUI LV	12/14/2018
	BIN LI	12/14/2018
<b>RECEIVING PARTY DATA</b>		
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<b>City:</b>	TIANJIN	
<b>State/Country:</b>	CHINA	
<b>PROPERTY NUMBERS Total: 1</b>		
	<b>Property Type</b>	<b>Number</b>
	Application Number:	16316043
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<b>Fax Number:</b>		
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<b>SIGNATURE:</b>	/George G Wang/	
<b>DATE SIGNED:</b>	01/08/2019	
<b>Total Attachments: 3</b>		
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## ASSIGNMENT BY INVENTOR

THIS ASSIGNMENT, made by Botong LI, Mingrui LV, and Bin LI, hereinafter collectively referred to as "ASSIGNOR", each with a mailing address indicated after the printed name under the signature below;

WHEREAS, ASSIGNOR has invented certain new and useful improvements which are inventions set forth in a Patent Application for Letters Patent of the United States, entitled *TIME DOMAIN CALCULATION METHOD OF VOLTAGE TRAVELING-WAVE DIFFERENTIAL PROTECTION FOR VSC-HVDC TRANSMISSION LINES* and identified by application number : and

WHEREAS, Tianjin University with a mailing address at 92 Weijin Road, Nankai District, Tianjin, CHINA, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patents in any countries to be obtained therefore and thereon.

NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in and to the above mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefore and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by ASSIGNEE, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR, had this sale and assignment not been made.

AND for the same consideration, ASSIGNOR hereby represents and warrants to ASSIGNEE, its successors, legal representatives and assigns, that, at the time of

execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to ASSIGNEE under law or that have already been transferred to ASSIGNEE, ASSIGNOR is the sole and lawful owner/owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above mentioned, and that the same are unencumbered and that ASSIGNOR has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, ASSIGNOR hereby covenants and agrees to and with ASSIGNEE, its successors, legal representatives and assigns, that ASSIGNOR will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, whenever counsel of ASSIGNEE, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND ASSIGNOR hereby authorizes and requests the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to ASSIGNEE, as assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of ASSIGNEE, its successors, legal representatives and assigns.

AND ASSIGNOR hereby grants practitioners at Customer No. **50163** the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

李博通

Botong LI (Mailing address: 92 Weijin Road, Nankai District,  
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Dec. 14. 2018

Date

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WITNESS

Dec. 14. 2018

Date

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