

<b>PATENT ASSIGNMENT COVER SHEET</b>
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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>
MASAJI HANEDA	02/05/2019
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16308795
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<b>SIGNATURE:</b>	/Sara Taylor/
<b>DATE SIGNED:</b>	02/21/2019
<b>Total Attachments: 2</b>	
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## ASSIGNMENT

WHEREAS, I, Masaji HANEDA of Shiga, Japan, am the named inventor for U.S. Patent Application Serial No. 16/308,795 entitled POWER FACTOR IMPROVEMENT DEVICE, filed on December 10, 2018 (the "Patent Application"), which is a U.S. national stage application based on PCT/JP2017/011363, filed on March 22, 2017, which in turn claims priority to Japanese Patent Application No. 2016-116041, filed on June 10, 2016; Japanese Patent Application No. 2016-116042, filed on June 10, 2016; and Japanese Patent Application No. 2017-009178, filed on January 23, 2017; and

WHEREAS, NTN CORPORATION, a Japanese corporation having its principal place of business in Osaka-shi, Osaka, Japan ("Assignee"), is desirous of acquiring the entire right, title, and interest in the Patent Application and related inventions;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which hereby are acknowledged, I, Masaji HANEDA hereby assign and transfer, to NTN CORPORATION and its successors and assigns, the entire right, title, and interest in and to the Patent Application and related inventions, including any and all letters patent that may be granted therefor in the United States and its territorial possessions and in any and all foreign countries, and in and to any and all divisions, continuations, reissues, substitutions, and extensions thereof.

I hereby authorize and request the Patent Office officials in the United States and any and all foreign countries to issue any and all of said letters patent, when granted, to NTN CORPORATION, as the assignee of my entire right, title, and interest in and to the same, for the sole use of NTN CORPORATION, and its successors and assigns.

I hereby covenant and agree to and with NTN CORPORATION, and its successors and assigns, at the time of execution and delivery of this document, that I am the lawful owner of the entire right, title, and interest in and to the invention and the above-identified patent application, and that the same are unencumbered, and that I have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

I agree that I will communicate to NTN CORPORATION, or its representatives, any facts known to me respecting the invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue, substitution, and extension applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to NTN CORPORATION, make all rightful oaths, and generally do everything possible to aid NTN CORPORATION, and its successors and assigns, to obtain and enforce proper protection for the invention in the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, I have hereunto set my hand on this date:

Month: February Day: 5 Year: 2019.

Masaji HANEDA  
Masaji HANEDA