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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICHARD BYRON BEDDINGFIELD	07/09/2020
SUBHASHISH BHATTACHARYA	09/14/2020
TSZ SING WONG	07/19/2020

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16923893

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ATTORNEY DOCKET NUMBER:	221404-1580
NAME OF SUBMITTER:	RANDY R. SCHOEN
SIGNATURE:	/Randy R. Schoen/
DATE SIGNED:	01/30/2021

Total Attachments: 5

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ASSIGNMENT OF UTILITY PATENT APPLICATION

WHEREAS, the following parties:

<u>Name</u>	<u>Address</u>
Richard Byron Beddingfield	1021 Main Campus Drive, 2nd Floor, Raleigh, NC
-	27606
Subhashish Bhattacharya	1021 Main Campus Drive, 2nd Floor, Raleigh, NC
	27606
Tsz Sing Wong	1021 Main Campus Drive, 2nd Floor, Raleigh, NC
	27606

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

TRANSFORMER DESIGNS FOR VERY HIGH ISOLATION WITH HIGH COUPLING.

which:	was:	
		executed on even date herewith,
	\boxtimes	filed with the United States Patent and Trademark Office (USPTO) on July 8,
		2020, and assigned Serial No. 16/923,893, and
	\boxtimes	further described in U.S. Provisional application entitled TRANSFORMER
	DESIG	INS FOR VERY HIGH ISOLATION WITH HIGH COUPLING, filed with the
	USPTO	O on July 8, 2019, and assigned Serial No. 62/871,606.

Note: Only one of the first two checkboxes will be checked. The third checkbox will be checked, only if appropriate.

WHEREAS, **North Carolina State University**, having a place of business at Office of Research Commercialization, 1021 Main Campus Drive, 2nd Floor, Raleigh, NC 27606, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said Provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

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ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

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Richard Byrón Beddingfield

WITNESS:

9/2020 Signature: 00/04/2024

Print Name: McKenna G. Beddingfield

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Subhashish Bhattacharya

Date: <u>914/202</u>

WITNESS:

Date: 9/14/2020

Signature: S. Bladodapje C

Print Name: SUMMING BAUTT

<u>Auttachenj</u> e

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Date:

Tez Sing Wong

Tez Sing Wong

Tez Sing Wong

Signature:

Date: 7/19/20 Signature:

Print Name: Carel Wang

PATENT REEL: 055088 FRAME: 0693

RECORDED: 01/30/2021