

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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Assignment ID: PATI42688

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Jeffrey Walling	05/01/2019
Wen Yuan	04/12/2019
Zhidong Bai	04/12/2019
Ali Azam	04/11/2019
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16789098
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<b>NAME OF SUBMITTER:</b>	BRENDA WISEMAN
<b>SIGNATURE:</b>	BRENDA WISEMAN
<b>DATE SIGNED:</b>	02/21/2024
<b>Total Attachments: 6</b>	
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A S S I G N M E N T

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I/We the undersigned, hereinafter collectively referred to as "Assignor", have made an invention entitled APPARATUSES AND METHODS FOR TRANSMISSION BEAMFORMING. Preferred embodiments of said invention are disclosed in a United States provisional patent application which:

- [ ] is executed concurrently herewith for filing in the United States Patent and Trademark Office and has been assigned Application Serial No. \_\_\_\_\_, with a filing date of \_\_\_\_\_.
- [X] was previously filed in the United States Patent and Trademark Office on February 13, 2019 as Provisional Patent Application Serial No. 62/804,876.

(The attorneys of Dorsey & Whitney LLP are hereby authorized to insert the serial number and filing date when known.)

The Assignee, UNIVERSITY OF UTAH, having a principal place of business at 615 Arapeen Drive, Suite 310, Salt Lake City, Utah 84108, desires to secure the entire right, title and interest in said invention and the provisional patent application filed thereon.

In consideration of One Dollar (\$1.00) and other good and valuable consideration paid to Assignor by the Assignee, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR HEREBY ASSIGNS TO THE ASSIGNEE:

The entire right, title and interest in the above-identified U.S. provisional patent application and in said invention of the above-identified U.S. provisional patent application and in all subsequent non-provisional utility patent applications claiming priority thereto, all divisions, continuations and continuations-in-part of said non-provisional patent applications, or reissues or extensions of Letters Patent or Patents granted thereon, and in all corresponding patent applications which may be filed in countries foreign to the United States, and in all patents issuing thereon in the United States and foreign countries to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this assignment, transfer, and sale not been made; and

The right to file foreign patent applications on said invention in its own name, wherever such right may be legally exercised, including the right to claim the benefits of the International Convention for such applications.

Assignor hereby authorizes and requests the United States Commissioner for Patents, and such Patent Office officials in foreign countries as are duly authorized by their patent laws to issue patents, to issue any and all patents on said invention to the Assignee as the owner of the entire interest, for the sole use and behoof of the said Assignee, its successors, assigns and legal representatives.

Assignor hereby agrees, without further consideration and without expense to Assignee, to sign all lawful papers and to perform all other lawful acts which the Assignee may request of Assignor to make this Assignment fully effective, including, by way of example but not of limitation, the following:

Prompt execution of all original, divisional, substitute, reissue, and other United States and foreign patent applications on said invention, and all lawful documents requested by the Assignee to further the prosecution of any of such patent applications.

Cooperation to the best of the Assignor's ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said invention.

This assignment and agreement shall be binding upon Assignor's heirs and legal representatives.



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