506414065 12/21/2020

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| ZEESHAN AHMED | 12/17/2020 |

RECEIVING PARTY DATA

| Name: | GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF COMMERCE | |
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PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 17113222 |

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| ATTORNEY DOCKET NUMBER: | 20-002US1 |
|-------------------------|-----------------|
| NAME OF SUBMITTER: | EILEEN BRIGHT |
| SIGNATURE: | /Eileen Bright/ |
| DATE SIGNED: | 12/21/2020 |

Total Attachments: 2

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PATENT 506414065 REEL: 054705 FRAME: 0951

NIST Docket number: 20-002US1

ASSIGNMENT OF PATENT RIGHTS

I, ZEESHAN AHMED, residing in WASHINGTON, D.C. invented "PHOTONIC

RESONATOR ANALYZER AND CHARACTERIZING A PHOTONIC RESONATOR"

for which has been filed an application for United States Letters Patent, Serial Number

17/113,222 on December 7, 2020.

The invention was made while I was an employee of the United States Department of Commerce

and under such circumstances that applicable laws and regulations render the patent rights

assignable to the United States. The United States of America, represented by the Secretary of

Commerce, wishes to acquire these rights.

Therefore, I assign to the Government of the United States of America as represented by the

Secretary of Commerce, my full and exclusive world-wide rights to this invention. As

consideration for this Assignment, I will be treated as an inventor whose rights are assigned to

the Government of the United States, for royalty sharing purposes, if royalties are ever collected,

as explained in Section 3710c of Title 15 of the United States Code. This invention and its

derivative applications in the United States Patent and Trademark Office and United States

Letters Patent are to be held by the United States of America for the full term for which such

Letters Patent may be granted as completely as they would have been held by me had I not made

this assignment.

PATENT REEL: 054705 FRAME: 0952 I agree to make, execute, and deliver to the Secretary of Commerce all documents in such usual

or other forms, terms, or contents as may be required by the Secretary for the prosecution of all

applications arising from this invention, as well as after issuance of Letters Patent, and for the

settlement of any derivation proceeding, post-grant review, or other action or proceeding, these

applications and Letters Patent may encounter. I will aid the United States of America in every

way to protect the invention as requested by the Secretary, except that any expenses arising

through such assistance will be borne, through proper arrangement, by the United States of

America.

I warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements,

oral, written, or implied, that will impair the interests conveyed in this assignment at the time I

execute this instrument.

IN TESTIMONY WHEREOF, I sign

Zeeshan Ahmed

ZEESHAN AHMED

12/17/2020

DATE

PATENT REEL: 054705 FRAME: 0953

RECORDED: 12/21/2020