

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6250566

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ANDREI A. KOLMAKOV	08/05/2020
GLENN EMERSON HOLLAND	08/06/2020
TANYA GUPTA	08/07/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY OF COMMERCE
<b>Street Address:</b>	NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
<b>Internal Address:</b>	100 BUREAU DRIVE, MS 2200
<b>City:</b>	GAITHERSBURG
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	20899
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16944571
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(301)975-3482
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	301-975-2691
<b>Email:</b>	patents@nist.gov
<b>Correspondent Name:</b>	NIST (EILEEN BRIGHT)
<b>Address Line 1:</b>	100 BUREAU DRIVE
<b>Address Line 2:</b>	MS 2200
<b>Address Line 4:</b>	GAITHERSBURG, MARYLAND 20899
<b>ATTORNEY DOCKET NUMBER:</b>	19-018US1
<b>NAME OF SUBMITTER:</b>	EILEEN BRIGHT
<b>SIGNATURE:</b>	/Eileen Bright/
<b>DATE SIGNED:</b>	08/14/2020
<b>Total Attachments: 7</b>	
source=19-018US1_KOLMAKOV_Assignment#page1.tif	

source=19-018US1\_KOLMAKOV\_Assignment#page2.tif  
source=19-018US1\_HOLLAND\_Assignment#page1.tif  
source=19-018US1\_HOLLAND\_Assignment#page2.tif  
source=19-018US1\_GUPTA\_Assignment#page1.tif  
source=19-018US1\_GUPTA\_Assignment#page2.tif  
source=19-018US1\_GUPTA\_Assignment#page3.tif

NIST Docket number: **19-018US1**

**ASSIGNMENT OF PATENT RIGHTS**

I, **ANDREI A. KOLMAKOV**, residing in FREDERICK, MD invented  
“**MULTIDIMENSIONAL PRINTER**” for which has been filed an application for United  
States Letters Patent, Serial Number 16/944,571 on July 31, 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.

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



---

**ANDREI A. KOLMAKOV**

08.05.2020

---

**DATE**

NIST Docket number: 19-018US1

**ASSIGNMENT OF PATENT RIGHTS**

I, **GLENN EMERSON HOLLAND**, residing in **ROCKVILLE, MD** invented  
“**MULTIDIMENSIONAL PRINTER**” for which has been filed an application for United  
States Letters Patent, Serial Number 16/944,571 on July 31, 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.

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

  
\_\_\_\_\_  
GLENN EMERSON HOLLAND

  
\_\_\_\_\_  
DATE

NIST Docket number: **19-018US1**

**ASSIGNMENT OF PATENT RIGHTS**

I, **TANYA GUPTA**, residing in GAITHERSBURG, MD invented “**MULTIDIMENSIONAL PRINTER**” for which has been filed an application for United States Letters Patent, Serial Number 16/944,571 on July 31, 2020.

**WHEREAS:** My contribution to the conception of the invention referenced above, Serial Number 16/944,571 was made while I was working under the auspices of a Department of Commerce's National Institute of Standards and Technology (NIST) grant to the University of Maryland, [Grant#70NANB14H209]; and

**WHEREAS:** Pursuant to Title 35 USC Section 202, the invention was made under such circumstances that the University of Maryland had the right to elect to retain title to the invention; and

**WHEREAS:** By written notification to the National Institute of Standards and Technology, dated May 29, 2020, the University of Maryland has chosen to not elect to retain title; and

**WHEREAS:** Pursuant Part 35 USC Section 202(c)(2), the University of Maryland's election not to retain title renders the patent rights assignable to the United States, as represented by the Secretary of Commerce; and

**WHEREAS:** The United States of America, represented by the Secretary of Commerce, wishes to acquire these rights; and

**Now Therefore**, in consideration of the foregoing, I assign to the Government of the United States of America as represented by the Secretary of Commerce, my entire right, title and

interest in and to the invention described and claimed in the application Serial Number 16/944,571.

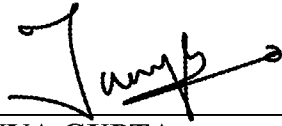
As consideration for this Assignment, I will be treated as an inventor whose rights are assigned to the Government of the United States, for royalty sharing purposes, if royalties are ever collected, as explained in Section 3710c of Title 15 of the United States Code. This invention and its derivative 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.

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

A handwritten signature in black ink, appearing to read 'Tanya Gupta', written over a horizontal line.

**TANYA GUPTA**

08072020

**DATE**