#### 505790929 11/25/2019

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1

EPAS ID: PAT5837757 Stylesheet Version v1.2

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

#### **CONVEYING PARTY DATA**

| Name          | Execution Date |
|---------------|----------------|
| JOHN MAGANA   | 07/24/2019     |
| GUOJING ZHANG | 07/24/2019     |
| YANG CAO      | 07/22/2019     |

### **RECEIVING PARTY DATA**

| Name:             | Intel Corporation                              |  |
|-------------------|--|--|
| Street Address:   | Street Address: 2200 Mission College Boulevard |  |
| City: Santa Clara |  |  |
| State/Country:    | CALIFORNIA                                     |  |
| Postal Code:      | 95054  |  |

### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |  |
|---------------------|----------|--|
| Application Number: | 16521445 |  |

### CORRESPONDENCE DATA

Fax Number: (503)796-2900

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.

Phone: (503) 222-9981

Email: svillarreal@schwabe.com

**Correspondent Name:** JUSTIN K. BRASK

Address Line 1: 1211 SW 5TH AVENUE, STE. 1600 Address Line 4: PORTLAND, OREGON 97204

| ATTORNEY DOCKET NUMBER: | AC1472-US 111548-248055 |
|-------------------------|-------------------------|
| NAME OF SUBMITTER:      | JUSTIN K. BRASK         |
| SIGNATURE:              | /Justin K. Brask/       |
| DATE SIGNED:            | 11/25/2019              |

## **Total Attachments: 4**

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> **PATENT REEL: 051106 FRAME: 0397** 505790929

## ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

John MAGANA, Guojing ZHANG, Yang ÇAO

hereby sell, assign, and transfer to

## Intel Corporation

a Corporation of Delaware , having a principal place of business at:
2200 Mission College Boulevard. Santa Clara, California, 95054 USA ("Assignee") and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior hereto or concurrently herewith and is contiled

## NOVEL METHOD AND APPARATUS FOR FABRICATION OF VERY LARGE SCALE INTEGRATION PATTERN FEATURES VIA ELECTROLESS DEPOSITION ON EXTREME ULTRAVIOLET LITHOGRAPHY PHOTOMASKS

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

| US or International Application Number       | 16/521,445 | July 24, 2019  |  |
|--|------------|--|--|
| ion or aligerialismina migrisculuu ingalismi |            | William Willia |  |

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuations, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, extensions, and all other putent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name, and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

AC1472-US 111548-248055

Page 1 of 2

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Spine:

Donc Name Goojing ZHANG

Date Name Vang CAO

Assignment Decument Return Address: Schwelse, Williamson & Wyatt P.C. 1211 SW 5th Avenue, Suite 1900 Portland, OR 97204 Telephone: (503) 222-9981

AC1472-US 111548-248055

Page 2 of 2

Attorney's Docket No.: AC1472-US 111548-248055

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In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

John MAGANA, Guojing ZHANG, Yang CAO

hereby sell, assign, and transfer to

## **Intel Corporation**

a Corporation of Delaware , having a principal place of business at:

2200 Mission College Boulevard. Santa Clara. California. 95054 USA ("Assignce") and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States a"nd all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior hereto or concurrently herewith and is entitled

# NOVEL METHOD AND APPARATUS FOR FABRICATION OF VERY LARGE SCALE INTEGRATION PATTERN FEATURES VIA ELECTROLESS DEPOSITION ON EXTREME ULTRAVIOLET LITHOGRAPHY PHOTOMASKS

said patent application also identified as follows (when known):

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| US e | or International       | Application Number           | 16/521,445                              | filed | July 24, 2019                           |
|------|------------------------|------------------------------|---|-------|---|
|      | AN WINSHAMONDO CONTING | a reservantation a reservant | *************************************** | 26760 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ |

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

AC1472-US 111548-248055

Page 1 of 2

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date

Date

Name: John MAGANA

Date

Name: Guojing ZHANG

Suky 22nd, 2019

Name: Name:

Assignment Document Return Address: Schwabe, Williamson & Wyatt P.C. 1211 SW 5th Avenue, Suite 1900 Portland, OR 97204

Telephone: (503) 222-9981

AC1472-US 111548-248055

Page 2 of 2

PATENT REEL: 051106 FRAME: 0401