

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5046419

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BYRON HO	02/12/2018
STEVEN JALOVIAR	07/11/2018
JEFFREY S. LEIB	02/06/2018
MICHAEL L. HATTENDORF	07/11/2018
CHRISTOPHER P. AUTH	03/16/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Intel Corporation
<b>Street Address:</b>	2200 Mission College Boulevard
<b>City:</b>	Santa Clara
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95054
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15859354
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(503)796-2900
<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>	(503) 222-9981
<b>Email:</b>	svillarreal@schwabe.com
<b>Correspondent Name:</b>	JUSTIN K. BRASK
<b>Address Line 1:</b>	1211 SW 5TH AVENUE, STE. 1600
<b>Address Line 4:</b>	PORTLAND, OREGON 97204
<b>ATTORNEY DOCKET NUMBER:</b>	AA6124-US 111548-236873
<b>NAME OF SUBMITTER:</b>	JUSTIN K. BRASK
<b>SIGNATURE:</b>	/Justin K. Brask/
<b>DATE SIGNED:</b>	07/11/2018
<b>Total Attachments: 8</b>	
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## ASSIGNMENT

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

**Byron HO; Steven JALOVIAR; Jeffrey S. LEIB; Michael L. HATTENDORF;  
Christopher P. AUTH**

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 entitled

### **REPLACEMENT GATE STRUCTURES FOR ADVANCED INTEGRATED CIRCUIT STRUCTURE FABRICATION**

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 15/859,354 filed December 30, 2017,

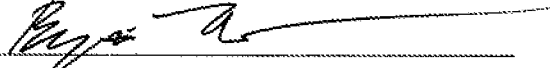
and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute 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

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 Below:

---

2/12/2018	
Date	Name: <b>Byron HO</b>
_____	_____
Date	Name: <b>Steven JALOVIAR</b>
_____	_____
Date	Name: <b>Jeffrey S. LEIB</b>
_____	_____
Date	Name: <b>Michael L. HATTENDORF</b>
_____	_____
Date	Name: <b>Christopher P. AUTH</b>
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_____	_____
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_____	_____

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

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Each Inventor: Please Sign and Date Below:

Date: 7/11/18 Name: Byron HO

Date: Name: Steven JALOVJAR

Date: 7/11/18 Name: Jeffrey S. LEIB

Date: Name: Michael L. HATTENDORE

Date: Name: Christopher P. AUTH

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*2/6/18*  
Date \_\_\_\_\_ Name:  **Jeffrey S. LEIB**

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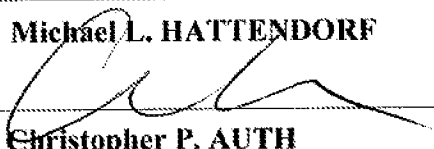
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Date	Name: <b>Michael L. HATTENDORF</b>
3/16/18	
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Date	Name: <b>Christopher P. AUTH</b>
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