506123793 06/24/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6170518

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ADEL ELSHERBINI	06/19/2020
FERAS EID	06/19/2020
JOHANNA SWAN	06/22/2020
GEORGIOS DOGIAMIS	06/22/2020

RECEIVING PARTY DATA

Name:	INTEL CORPORATION
Street Address:	2200 MISSION COLLEGE BLVD.
City:	SANTA CLARA
State/Country:	CALIFORNIA
Postal Code:	95054

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16909264

CORRESPONDENCE DATA

Fax Number: (971)244-4968

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: 503-968-8233

Email: dmontgomery@ghmip.com

Correspondent Name: GREEN, HOWARD, & MUGHAL LLP.

Address Line 1: 5 CENTERPOINTE DRIVE

Address Line 2: SUITE 400

Address Line 4: LAKE OSWEGO, OREGON 97035

ATTORNEY DOCKET NUMBER:	01.AC8871-US
NAME OF SUBMITTER:	DANA M. MONTGOMERY
SIGNATURE:	/Dana M. Montgomery/
DATE SIGNED:	06/24/2020

Total Attachments: 8

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PATENT 506123793 REEL: 053031 FRAME: 0811

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PATENT REEL: 053031 FRAME: 0812

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the understand inventor(s)

Adel Elsherbini Feras Eid Johanna Swan Georgios Dogiamis

bereby sell, assign, and transfer to:

Intel Corporation

a corporation of Delaware, having a principal place of business at 2200 Mission College Blvd. Santa Clara, CA. 95054
USA ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United
States and all other countries, in and to any and all inventions and improvements that are disclosed in the application for
the patent entitled.

ADDITIVE MANUFACTURING FOR INTEGRATED CIRCUIT ASSEMBLY CONNECTOR SUPPORT STRUCTURES

(I hereby authorize and request any attorney having appropriate authority from the assignee to insert on the designated lines below, the filing date and application number of said application when known.)

Which was filed on												J	u	n	е	2	٧.	š.	2	ľ	2	0								
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which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below.

and in and to said application and all Additional Applications, and all other patent applications that have been or shall be filled in the United States and all other countries and international filling offices on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all other countries and international filling offices on said inventions and improvements; and in and to all rights of priority resulting from the filling of said applications, as used herein "Additional Applications" includes but is not limited to design, utility, utility model, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and national phase applications on said inventions and improvements.

and agree that said Assignee may apply for and receive a potent or patents for said inventions and improvements in its own name, and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and tegal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute

Page 1 of 2

all Additional Applications, and all other patent applications on any and all said inventions and improvements; execute all rightful onthis, 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 and 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 and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

coversant 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.

March Solveri	6/19/2628
Adel Elsherbini	Date signed
 Feras Eid	Date signed
 Johanna Swan	Date signed
 Georgios Dogiamis	Date signed

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Page 1 of 2

PATENT REEL: 053031 FRAME: 0815

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Adel Elsherbini	Date signed
49	6/19/2020
Feras Eid	Date signed
Johanna Swan	Date signed
Genroics Dogramis	Date signed

Page 2 of 2

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(I hereby authorize and request any attorney having appropriate authority from the assignee to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on	June 23, 2	2020	as
United States Applic	cation Number _	16/909,264	and_

which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

and in and to said application and all Additional Applications, and all other patent applications that have been or shall be filed in the United States and all other countries and international filing offices on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all other countries and international filing offices on said inventions and improvements; and in and to all rights of priority resulting from the filing of said applications; as used herein "Additional Applications" includes but is not limited to design, utility, utility model, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and national phase applications on said inventions and improvements;

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PATENT REEL: 053031 FRAME: 0817 all Additional Applications, and all other patent applications on any and all said inventions and 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 and 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 and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

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Adel Elsherbini	Date signed
Feras Eid	Date signed
achanna Sum	6/2/2020
Johanna Swan	Date signed
Georgios Dogiamis	Date signed

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United States Application Number	16/909,264	and

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	Adel Elsherbini	Date signed
	Feras Eid	Date signed
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	Johanna Swan	Date signed
	1Ahr	06/22/20
	Georgios Dogiamis	Date signed
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Page 2 of 2

RECORDED: 06/24/2020