506401834 12/14/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6448590

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALEKSANDAR ALEKSOV	12/08/2020
MOHAMMAD ENAMUL KABIR	12/06/2020
ADEL A. ELSHERBINI	12/08/2020
SHAWNA M. LIFF	12/08/2020
JOHANNA M. SWAN	12/08/2020
FERAS EID	12/07/2020

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17121093

CORRESPONDENCE DATA

Fax Number: (972)226-4837

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: 6177500620

michelle@patcapgroup.com, docketing@patcapgroup.com Email:

ALISHA FEUSTEL **Correspondent Name:** 2816 LAGO VISTA LANE Address Line 1: Address Line 4: ROCKWALL, TEXAS 75032

ATTORNEY DOCKET NUMBER:	AC9438-US
NAME OF SUBMITTER:	MICHELLE C. MANNING
SIGNATURE:	/Michelle C. Manning/
DATE SIGNED:	12/14/2020

Total Attachments: 7

PATENT REEL: 054640 FRAME: 0538

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PATENT REEL: 054640 FRAME: 0539

ASSIGNMENT

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

Aleksandar Aleksov Mohammad Enamul Kabir Adel A. Elsherbini Shawna M. Liff Johanna M. Swan Feras Eid

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 other countries, in and to any and all inventions and improvements that are disclosed in the application for the patent entitled:

HERMETIC SEALING STRUCTURES IN MICROELECTRONIC ASSEMBLIES HAVING DIRECT BONDING

(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	December 14, 2	2020	as	
US		Application Number	17/121,093	and
COUNTRY or Inte	rnational Office			

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 provisional, design, utility, utility model, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and national phase applications on said inventions and improvements;

Page 1 of 2

and agree that said Assignee may apply for and receive a patent 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 legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute 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

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.

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	Adel A. Elsherbini	(Date)
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	Shawna M. Liff	(Date)
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Aleksandar Aleksov	(Date)
Enamul	12/6/2020
Mohammad Enamul Kabir	(Date)
Adel A. Elsherbini	(Date)
Shawna M. Liff	(Date)
Johanna M. Swan	(Date)
Feras Eid	(Date)

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Aleksandar Aleksov	(Date)
Mohammad Enamul Kabir	(Date)
	<u> 12/5/2</u> 220
Adel A. Elsherbini	(Date)
Shawna M. Liff	(Date)
Johanna M. Swan	(Date)
Feras Eid	(Date)

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Aleksandar Aleksov	(Date)
Mohammad Enamul Kabir	(Date)
Adel A. Elsherbini	(Date)
Shawna M. Liff	<u>/2/8/2020</u> (Date)
Johanna M. Swan	(Date)
Feras Eíd	(Date)

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Aleksandar Aleksov	(Date)
Mohammad Enamul Kabir	(Date)
Adel A. Elsherbini	(Date)
Shawna M. Liff	(Date)
Johanna M. Swan	7 12/8/2020 (Date)
Ferus Eid	(Daie)

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	Aleksandar Aleksov	(Date)
	Mohammad Enamul Kabir	(Date)
	Adel A. Elsherbini	(Date)
	Shawna M. Liff	(Date)
••••	Johanna M. Swan	(Date)
	Feras Eid	12/7/2020 (Date)