504527676 08/31/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4574382

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SAMEH GOBRIEL	08/28/2017
WEI SHEN	08/30/2017
TSUNG-YUAN C. TAI	07/12/2017
REN WANG	07/12/2017

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:	15632592

CORRESPONDENCE DATA

Fax Number: (317)231-7433

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: 317-231-1313 Email: ktyree@btlaw.com

BARNES & THORNBURG LLP Correspondent Name: Address Line 1: 11 S. MERIDIAN STREET

Address Line 4: INDIANAPOLIS, INDIANA 46204

ATTORNEY DOCKET NUMBER: P113723/45631-263730 NAME OF SUBMITTER: GLEN MADISON KELLETT **SIGNATURE:** /Glen Madison Kellett/ 08/31/2017 **DATE SIGNED:**

Total Attachments: 6

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> **PATENT REEL: 043458 FRAME: 0185** 504527676

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> PATENT REEL: 043458 FRAME: 0186

ASSIGNMENT

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

SAMEH GOBRIEL; WEI SHEN; TSUNG-YUAN C. TAI; REN WANG

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:

TECHNOLOGIES FOR EFFICIENT NETWORK FLOW CLASSIFICATION WITH VECTOR BLOOM FILTERS

(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 26, 2017	as	
Thitad Ctatae	A malication Number	15/622 502	المسم
United States	Application Number _	15/632,592	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;

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

Page 1 of 2

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.

	Soul	8/28/2017
	Sameh Gobriel	Date signed
	Wei Shen	Date signed
	Tsung-Yuan C. Tai	Date signed
	Ren Wang	Date signed
Assignee: _	INTEL CORPORATION	
Name of Re	presentative of Legal Entity:	
Signature:		

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Sameh Gobriel	Date signed
new	08/30/2017
Wei Shen	Date signed
Tsung-Yuan C. Tai	Date signed
Ren Wang	Date signed
ė	
ssignee: INTEL CORPORATION	
ame of Representative of Legal Entity:	

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Sameh Gobriel	Date signed
Wei Shen	Date signed
<i>9</i> 9	2/12/17
Tsung-Yuan C. Tai	Date signed
R	7/12/17
Ren Wang	Date signed
nee: <u>INTEL CORPORATION</u>	
e of Representative of Legal Entity:	

Page 2 of 2

Signature: