505360916 03/06/2019 PATENT ASSIGNMENT COVER SHEET

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	SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT			
CONVEYING PARTY I	ΟΑΤΑ					
		Name			Execution Date	1
ANDREW MORNING-SMITH					03/04/2019	1
BRIAN MCFARLANE				03/04/2019	1	
EMILY P. CHUNG				02/25/2019	1	
WILLIAM GLENNAN					03/01/2019]
RECEIVING PARTY D	ΑΤΑ					
Name:		ORPORATION]
Street Address:	2200 N	SSION COLLEGE BOULE	/ARD			1
City:	SANTA	CLARA				1
State/Country:	CALIF	RNIA				1
Postal Code:	95054					-
		Number		1		
PROPERTY NUMBER	S Total: 1					
Property Type	-	Number				
Application Number		1620/108				
Application Number:		16294198				
	DATA	16294198				
Application Number: CORRESPONDENCE Fax Number:	DATA					
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<u>ASSIGNMENT</u>

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

Andrew Morning-Smith; Brian Mcfarlane; Emily P. Chung; William Glennan

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

SSD RESTART BASED ON OFF-TIME TRACKER

(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 onM	arch 6, 2019		
US	Application Number	16/294,198	and
COUNTRY or International Office	™n naa¥ Yun naann jar arainigan . X	· >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	

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 Assignce 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 Assignce, its successors, assigns, and legal representatives; and

covenant with said Assignce, 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 undereigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Andrew Morning-Smith

Date signed

Brian Mcfarlane

Emily P. Chung

William Glennan

Date signed

25,2019 Date signed

Date signed

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US		Application Number	16/294,198	and
	mational Office	· · ·		

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Andrew Morning-Smith

Brian Mcfarlane

Date signed

Date signed

Emily P. Chung

1 de la compañía de l

William Glennan

Date signed

<u>3-1-2019</u> Date signed

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which was filed on	Marc	ch 6, 2019	as	
US		Application Number	16/294,198	and
COUNTRY or Inter	mational Office			

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Andrew Morning-Smith

Brian Mcfarlane

<u>3/4/2014</u> Date signed

Date signed

Emily P. Chung

William Glennan

Date signed

Date signed

Page 2 of 2

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US	Application Number	16/294,198	and
COUNTRY or International			

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Page 1 of 2

Attorney Docket No.: AB7109-US

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Andrew Morning-Smith

Mar 4,2019

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Brian Mcfarlane

Emily P. Chung

Date signed

William Glennan

Date signed

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PATENT REEL: 048519 FRAME: 0600

RECORDED: 03/06/2019