505730697 10/18/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

ic Version v1.1 EPAS ID: PAT5777508

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
IGOR DUARTE CARDOSO	04/23/2019
ADRIAN HOBAN	04/30/2019
ABDUL HALIM	04/30/2019
LOUISE DALY	04/30/2019
JOHN O'LOUGHLIN	05/01/2019

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:	16023933	

CORRESPONDENCE DATA

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Total Attachments O		
DATE SIGNED:	10/18/2019	
SIGNATURE:	/Michael J. Lenisa/	
NAME OF SUBMITTER:	MICHAEL J. LENISA	
ATTORNEY DOCKET NUMBER:	AA4504-US	

Total Attachments: 2

PATENT REEL: 050763 FRAME: 0406 source=AA4504-Assignment-All#page1.tif source=AA4504-Assignment-All#page2.tif

> PATENT REEL: 050763 FRAME: 0407

ASSIGNMENT

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

Igor Duarte Cardoso; Adrian Hoban; Abdul Ahalim; Louise Daly; and John OLoughlin

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:

METHODS AND APPARATUS TO MANAGE HEAT IN A CENTRAL PROCESSING UNIT

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

which was filed on	June 28, 2	2018 	as	
US		Application Number	16/023,933	and
COUNTRY or Inte	ernational 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 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

PATENT REEL: 050763 FRAME: 0408

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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.

Igor Duarte Cardoso

Igor Duarte Cardoso

Date signed

Adrian Hoban

Date signed

Abdul Halim

Date signed

Active Cardoso

Date signed

Page 2 of 2