

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GREGORY M. CHRYSLER	02/21/2003
PAUL A. KONING	02/10/2003
SAIKUMAR JAYARAMAN	04/09/2003
MAKAREM A. HUSSEIN	04/07/2003
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	INTEL CORPORATION
<b>Street Address:</b>	2200 MISSION COLLEGE BOULEVARD
<b>City:</b>	SANTA CLARA
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95052
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	6981380
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(503)796-2900
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<b>ATTORNEY DOCKET NUMBER:</b>	109263-129112
<b>NAME OF SUBMITTER:</b>	JESSICA ROSE
<b>SIGNATURE:</b>	/Jessica Rose/
<b>DATE SIGNED:</b>	07/24/2014
<b>Total Attachments: 5</b>	
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Attorney's Docket

**ASSIGNMENT**

**PATENT**

No.: P14921-109263-129112

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned, Gregory M. Chrysler, Paul A. Koning, Saikumar Jayaraman, and Makarem A. Hussein

hereby sell, assign, and transfer to Intel Corporation

a corporation of Delaware, having a principal place of business at 2200 Mission College Blvd., Santa Clara, California 95052 ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all improvements that are disclosed in the application for the United States patent that has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and is entitled THERMOELECTRIC COOLING FOR MICROELECTRONIC PACKAGES AND DICE

and in and to said application and all divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said 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 divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said improvements and for vesting title to said 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.

Each Inventor: Please Sign and Date Below:

<u>21 Feb</u> , 20 <u>03</u> Date	<u><i>Gregory M. Chrysler</i></u> Name: Gregory M. Chrysler
_____, 20____ Date	_____ Name: Paul A. Koning
_____, 20____ Date	_____ Name: Saikumar Jayaraman
_____, 20____ Date	_____ Name: Makarem A. Hussein

Each Inventor: Please also list the date that you signed the accompanying DECLARATION AND POWER OF ATTORNEY:

<u>21 Feb</u> , 20 <u>03</u> Date
_____, 20____ Date
_____, 20____ Date
_____, 20____ Date

Each Inventor: Please Sign and Date Below:

Date, 20\_\_\_\_  
Date  
2/10, 2003  
Date

Name: Gregory M. Chrysler

*Paul A. Koning*  
Name: Paul A. Koning

Date, 20\_\_\_\_  
Date

Name: Saikumar Jayaraman

Date, 20\_\_\_\_  
Date

Name: Makarem A. Hussein

Each Inventor: Please  
also list the date that  
you signed the  
accompanying  
DECLARATION AND  
POWER OF  
ATTORNEY:

Date, 20\_\_\_\_  
Date  
2/10, 2003  
Date

Date, 20\_\_\_\_  
Date

Date, 20\_\_\_\_  
Date

Each Inventor: Please Sign and Date Below:

\_\_\_\_\_, 20\_\_\_\_  
Date

\_\_\_\_\_  
Name: Gregory M. Chrysler

\_\_\_\_\_, 20\_\_\_\_  
Date

\_\_\_\_\_  
Name: Paul A. Koning

04/09/03, 2003  
Date

\_\_\_\_\_  
Name: Salkumar Jayaraman

\_\_\_\_\_, 20\_\_\_\_  
Date

\_\_\_\_\_  
Name: Makarem A. Hussein

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**DECLARATION AND  
POWER OF  
ATTORNEY:**

\_\_\_\_\_, 20\_\_\_\_  
Date

\_\_\_\_\_, 20\_\_\_\_  
Date

04/09/\_\_\_\_\_, 2003  
Date

\_\_\_\_\_, 20\_\_\_\_  
Date

Each Inventor: Please Sign and Date Below:

_____, 20____	_____ Name: Gregory M. Chrysler
Date	
_____, 20____	_____ Name: Paul A. Koning
Date	
_____, 20____	_____ Name: Saikumar Jayaraman
Date	
<u>4/7</u> , 20 <u>03</u>	<u>Makarem Hussein</u> Name: Makarem A. Hussein
Date	

Each Inventor: Please also list the date that you signed the accompanying DECLARATION AND POWER OF ATTORNEY:

_____, 20____	_____ Date
_____, 20____	_____ Date
_____, 20____	_____ Date
<u>4/7</u> , 20 <u>03</u>	<u>4/7</u> , 20 <u>03</u> Date