PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| Mohamed A. Abdelmoneum | 02/03/2010 |
| Tawfik M. Rahal-Arabi | 03/01/2010 |
| Gregory F. Taylor | 02/04/2010 |
| Kevin J. Fischer | 02/04/2010 |
| Andrew Yeoh | 02/05/2010 |

RECEIVING PARTY DATA

| Name: | Intel Corporation |
|-----------------|--------------------------------|
| Street Address: | 2200 Mission College Boulevard |
| City: | Santa Clara |
| State/Country: | CALIFORNIA |
| Postal Code: | 95052 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12646833 |

CORRESPONDENCE DATA

Fax Number: (503)439-6073

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

(503) 439-8778 Phone: Email: heidi_yee@bstz.com

Correspondent Name: Blakely Sokoloff Taylor & Zafman

Address Line 1: 1279 Oakmead Parkway

Address Line 4: Sunnyvale, CALIFORNIA 94085-4040

| ATTORNEY DOCKET NUMBER: | 42P31460 |
|-------------------------|-----------|
| NAME OF SUBMITTER: | Heidi Yee |

PATENT

501297815 REEL: 025024 FRAME: 0465

Total Attachments: 8 source=42P31460_Assignment_signed#page1.tif source=42P31460_Assignment_signed#page2.tif source=42P31460_Assignment_signed#page3.tif source=42P31460_Assignment_signed#page4.tif source=42P31460_Assignment_signed#page5.tif source=42P31460_Assignment_signed#page6.tif

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ASSIGNMENT

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

Mohamed A. Abdelmoneum; Tawfik M. Rahal-Arabi; Gregory F. Taylor; Kevin J. Fischer; Andrew Yeoh

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 95052 United States ("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 inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled

THERMAL SENSOR USING A VIBRATING MEMS RESONATOR OF A CHIP INTERCONNECT LAYER

| filing date of said patent application when known. | | nee to insert (| pelow the application number an |
|--|-----------|-----------------|---------------------------------|
| United States Patent Application Number | 2/646,833 | filed | December 23, 2009 , |

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation 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 inventions or 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 inventions or 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 inventions or 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 provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continuation applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or 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 or 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 or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said

42P31460 Page 1 of 2

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: | |
|--|------------------------------|
| Feb. 39 201 | s Mohamad Ahmad Alb |
| Date | Name: Mohamed A. Abdelmoneum |
| Date | Name: Tawfik M. Rahal-Arabi |
| Date | Name: Gregory F. Taylor |
| Date | Name: Kevin J. Fischer |
| Date | Name: Andrew Yeoh |
| Date | Name: |

Assignment Document Return Address: Blakely, Sokoloff, Taylor & Zafman LLP 1279 Oakmead Parkway Sunnyvale, CA 94085-4040

Telephone: (503) 439-8778

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from the filing of said United States application;

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THERMAL SENSOR USING A VIBRATING MEMS RESONATOR OF A CHIP INTERCONNECT LAYER

| said patent application also identified as follow | | | |
|---|---|-----------------------------------|---|
| [I/we hereby authorize an attorney or filing date of said patent application when known | | gnee to insert | below the application number and |
| United States Patent Application Number | 12/646.833 | filed | December 23, 2009 , |
| and in and to said application (provisional capplications, utility applications, design appliprosecution applications, continuation-in-parapplications, reexaminations, extensions, and | ications, divisional a rt applications, subs | applications, o titute applica | continuation applications, continued tions, renewal applications, reissue |

United States and all foreign countries on any of said inventions or 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 inventions or improvements; and in and to all rights of priority resulting

agree that said Assignee may apply for and receive a patent or patents for said inventions or 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 provisional applications, non-provisional applications, utility applications, design applications, 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 inventions or 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 or 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 or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said

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Each Inventor: Please Sign and Date Below:

| Date | Name: Mohamed A. Abdelmoneum |
|------------|------------------------------|
| 03-01-2010 | |
| Date | Name: Tawfik M. Rahel-Arabi |
| Date | Name: Gregory F. Taylor |
| Date | Name: Kevin J. Fischer |
| Date | Name: Andrew Yeoh |
| Date | Name: |
| Data | Name: |

Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmead Parkway Sunnyvale, CA 94085-4040 Telephone: (503) 439-8778

Page 2 of 2

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|--------------------------------|----------------------------------|-----------------------------|----------------------------|
| | | a Assignee to meen below | the application number and |
| filing date of said patent app | lication when known.] | - | • • |

| United States Patent Application Number | 12/646.833 | filed | December 23, 2009 |
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and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, 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 inventions or 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 inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

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42P31460 Page 1 of 2

GF

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Each Inventor: Please Sign and Date Below:

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| Date | Name: Mohamed A. Abdelmoneum |
|-----------------|------------------------------|
| Date | Name: Tawfik M. Rahal-Arabi |
| 4 Feb Zo10 Date | Name: Gregory F. Taylor |
| Date | Name: Kevin J. Fischer |
| Date | Name: Andrew Yeoh |
| Date | Name; |
| Date | Name: |
| Date | Name; |
| Date | Name: |

Assignment Document Return Address:
Blakely, Sokoloff, Taylor & Zafman LLP
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| United States Patent Application Number 12/646,833 filed December 23, 2009 |
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| Date | Name: Mohamed A. Abdelmoneum | |
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| Date | Name: Tawfik M. Rahal-Arabi | |
| Date | Name: Gregory F. Taylor | |
| 2/4/2010 Date 2/5/2010 | Name: Kevin J. Fischer AWHYCK | |
| Date | Name: Andrew Yeoh | |
| Date | Name: | |

1279 Oakmead Parkway Sunnyvale, CA 94085-4040 Telephone: (503) 439-8778

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RECORDED: 09/21/2010