

3/25/04

03-29-2004

FORM PTO-1595  
(Rev. 10/02)  
OMD No. 0651-0011 (exp. 6/30/2005)



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102706592

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

**Shriram Ramanathan; Sarah E. Kim; R. Scott List;  
Gregory M. Chrysler**

## 2. Name and address of receiving party(ies):

Name: **Intel Corporation**

Additional name(s) of conveying party(ies) attached?

☒ No ☐ Yes

Internal Address: \_\_\_\_\_

Street Address: **2200 Mission College Boulevard**

## 3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

City: **Santa Clara** State: **CA** Zip: **95052**

Country: **USA**

Execution Date: **11/17/2003 & 11/18/2003**

Additional name(s) & address(es) attached? ☒ No ☐ Yes

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

**10/682,137**

B. Patent No.(s)

Additional numbers attached? ☒ No ☐ Yes

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Blakely, Sokoloff, Taylor & Zafman LLP**

Internal Address: \_\_\_\_\_

Street Address: **12400 Wilshire Boulevard  
7th Floor**

City: **Los Angeles** State: **CA** ZIP: **90025**

## 6. Total number of applications and patents involved:

**1**

7. Total Fee (37 CFR 3.41).....\$ **40.00**

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

## 8. Deposit Account Number:

**02-2666**

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## 9. Statement and signature.

*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.*

**Stephen M. De Klerk**

Name of Person Signing

Signature

**3/22/04**  
Date

Total number of pages including cover sheet, attachments, and document: **3**

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Docket No. 42P17285

**PATENT**  
**REEL: 015123 FRAME: 0716**

Attorney's Docket

**ASSIGNMENT**

**PATENT**

No.: 042390P17285

(For Execution After Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we  
the undersigned, Shriram Ramanathan, Sarah E. Kim, R. Scott List, and  
Gregory M. Chrysler,

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 was filed October 8, 2003 and assigned  
Application No. 10/682,137 and is entitled

A MICROELECTRONIC ASSEMBLY HAVING THERMOELECTRIC ELEMENTS

TO COOL A DIE AND A METHOD OF MAKING THE SAME

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.

Date: 11-17-, 2003

RS  
Name: Shriram Ramanathan

Date: 11/18, 2003

Sarah E. Kim  
Name: Sarah E. Kim

Date: 11/18, 2003

R. Scott List  
Name: R. Scott List

Date: 11/18, 2003

Gregory M. Chrysler  
Name: Gregory M. Chrysler

State of: \_\_\_\_\_

County of: \_\_\_\_\_

**Assignment Document Return Address:**

SS. BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP  
12400 Wilshire Blvd., Seventh Floor  
Los Angeles, California 90025-1026  
(408) 720-8300

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me, \_\_\_\_\_,  
the undersigned Notary Public, personally appeared \_\_\_\_\_

☐ personally known to me ☐ proved to me on the basis of satisfactory evidence to  
be the person(s) whose name(s) subscribed to the within instrument, and  
acknowledged that executed it.

WITNESS my hand and official seal.

\_\_\_\_\_  
Notary's Signature