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U.S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Pat

... and attached original documents or copy thereof.

1. Name of conveying party(ies):

Brian E. Ruttenberg; Prasoونkumar Surti

6-21-04

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: 6/21/2004; 6/21/2004

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: 6/21/2004

6/21/2004

A. Patent Application No.(s)

10873684

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

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

(Attach duplicate copy of this page if paying by deposit account)

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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.

Farzad E. Amini

Name of Person Signing

Signature

June 21, 2004

Date

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

Mail documents to be recorded with required cover sheet information to:

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Docket No. 42P19137

PATENT
REEL: 015512 FRAME: 0620

ASSIGNMENT

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

Brian E. Ruttenberg; Prasoonkumar Surti

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 USA ("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 and 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:

EFFICIENT USE OF A RENDER CACHE

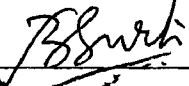
and in and to said application and all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions and improvements; and in and to all rights of priority from the filing of said United States applications;

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 design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, power 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 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.

Each Inventor: Please Sign and Date Below:

6/21/04 
Date Name: **Brian E. Ruttenberg**

6/21/04 
Date Name: **Prashankumar Surti**

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Date Name:

Assignment Document Return Address:
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