FORM PTO-1595 Recordation For (Rev. 10/02) OMD No. 0651-0011 (exp. 6/30/2005) ICE OF PATENT	S ONLY 102983340 ,icc
oms APR 11 MM'	0: 52
To the Honorable Commissioner of Patents and Trademarks. Ple	ase record the attached original documents or copy thereof. 2. Name and address of receiving party(ies):
1. Name of conveying party(ies): FINANCE SEE Dave Minturn; James B. Crossland; Sujoy Sen; Greg	
Cummings	Name: Intel Corporation
	Internal Address:
Additional name(s) of conveying party(ies) attached?	
No ☐ Yes	Street Address: 2200 Mission College Boulevard
3. Nature of Conveyance:	
	City: Santa Clara State: CA Zip: 95052
Other	
Execution Date: 12/7/04; 12/20/04; 3/1/05	Country: USA
LACCULOIT Date. 12.1104, 12.120704, 5/17/03	Additional name(s)& address(es) attached? ☑ No ☐ Yes
Application number(s) or patent number(s): If this document is being filed together with a new application.	on, the execution date of the application is:
A. Patent Application No.(s)	B. Patent No.(s)
11/026,928	***************************************
'	tached? 🛛 No 🔲 Yes
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Name: Blakely, Sokoloff, Taylor & Zafman LLP	7. Total Fee (37 CFR 3.41)\$ 40.00
Internal Address:	■ Enclosed□ Authorized to be charged to deposit account
Street Address: 12400 Wilshire Boulevard	E Authorized to be offered to deposit account
7th Floor	8. Deposit Account Number:
City: Los Angeles State: CA ZIP: 9002	5 02-2666
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	Cultout do-
Edwin H. Taylor	(1)/s
Name of Person Signing	Signature / Ďate
Total number of pages including cover	sheet, attachments, and document: 7

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04/20/2005 ECOOPER 00000257 11026928 01 FC:8021 40.00 OP Director of the US Patent and Trademark Office

P.O. Box 1450

Alexandria, VA 22313-1450

Docket No. 42P20136

Attorne	ey's Docket		<u>A</u>	SS	IGN	M
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filing of said United States application;

PATENT

No.: <u>42P201</u> 3	36 (For Execution Prior To	o Filing Patent Applicat	ion)
In conside	eration of good and valuable cor	sideration, the receipt	of which is hereby
acknowledged, _	<u>We,</u>		
the undersigned,	Dave Minturn, James B. Cros	ssland, Sujoy Sen and	Greg Cummings
hereby sell, assiç	gn, and transfer to <u>Intel Corpo</u>	ration	
a corporation of	Delaware	_, having a principal pl	ace of business at
and its successo United States an the application for	ollege Boulevard, Santa Clara, Cors, assigns, and legal representand all foreign countries, in and to be the United States patent that he rently herewith on the dates indicates.	atives, the entire right, t any and all improveme las been executed by th	title, and interest for the nts that are disclosed in he undersigned prior
I/O Hub Reside	nt Cache Line Monitor and Device	ce Register Update	
continued prosect renewal applications that any of said impro	d application and all divisional appution applications, continuation- ions, reissue applications, reexar have been or shall be filed in the ovements; and in and to all origin extensions, that have been or sh	in-part applications, sul minations, extensions, a e United States and all nal patents, reissued pa	bstitute applications, and all other patent foreign countries on Itents, reexamination

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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

foreign countries on said improvements; and in and to all rights of priority resulting from the

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.

Rev. 01/01/2000 (A1)

Each Invento	r: Please S	ign <u>and Date</u> Below:
Date		Name. Dave Minturn
Date	_, 20 <u>04</u>	Name: James B. Crossland
Date	_, 20	Name: Sujoy Sen
Date	_, 20	Name: Greg Cummings
Date	_, 20	Name:
Date	_, 20	Name:

Each Invent also list the you signed accompany DECLARAT POWER OF ATTORNEY	date that the ing ION AND
Date	, 20
Date	_, 20 <u>04</u>
Date	, 20

Attorney's Docket	<u> A S S I G N M E N T</u>
No.: 42P20136	(For Execution Prior To Filing Patent Application)

PATENT

In conside	ration of good and valuat	ole consideration, the receipt	of which is hereby
acknowledged, _V	<u>Ve</u> ,		
the undersigned, _	Dave Minturn, James E	B. Crossland, Sujoy Sen and	Greg Cummings
hereby sell, assigr	n, and transfer to <u>Intel</u>	Corporation	
a corporation of _	Delaware	, having a principal p	lace of business at
2200 Mission Col	lege Boulevard, Santa Cl	lara, California 95052	, ("Assignee"),
and its successors	s, assigns, and legal repr	esentatives, the entire right, t	title, and interest for the
the application for	the United States patent	and to any and all improveme that has been executed by t	nts that are disclosed in
hereto or concurre	ently herewith on the date	es indicated below and is entit	tled
I/O Hub Resident	t Cache Line Monitor and	Device Register Update	***************************************
and in and to said	application and all division	onal applications, continuation	applications,

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.

- 1 -

Rev. 01/01/2000 (A1)

Each Invento	or: Please S	ign <u>and Date</u> Below:		Each Inventoralso list the dyou signed the accompanyin DECLARATIO POWER OF ATTORNEY:	late that ie g
Dec 20 Date	_, 20 <u>04</u>	Name: Dave Minturn		Dec 20 Date	, 20 <u>0 4</u>
Date	_, 20	Name: James B. Crossland	.	Date	_, 20
Date	_, 20	Name: Sujoy Sen		Date	_, 20
Date	_, 20	Name: Greg Cummings	.	Date	_, 20
Date	_, 20	Name:		Date	_, 20
Date	_, 20	Name:		Date	_, 20

Attorney's Docket	<u> A S S I G N M E N T</u>
No.: 42P20136	(For Execution Prior To Filing Patent Application)

filing of said United States application;

legal representatives; and

PATENT

In consideration of good and valuable consideration, the receipt of which is hereby
acknowledged, <u>We</u> ,
the undersigned, <u>Dave Minturn, James B. Crossland, Sujoy Sen and Greg Cummings</u>
hereby sell, assign, and transfer to <u>Intel Corporation</u>
a corporation of <u>Delaware</u> , having a principal place of business at
2200 Mission College Boulevard, 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
I/O Hub Resident Cache Line Monitor and Device Register Update
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

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

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

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.

patents and all patents on said improvements, in said Assignee, its successors, assigns, and

- 1 -

Rev. 01/01/2000 (A1)

Each Inventor: Please Sign <u>and Date</u> Below:						
Date	_, 20	Name: Dave Minturn				
Date	_, 20	Name: James B. Crossland				
3/ / Date	, 20 <u>05</u>	Named Sujoy Sen				
3/1/ / Date	, 20 <u>65</u>	Name: Greg Commings				
Date	_, 20	Name:				
Date	_, 20	Name:				

Each Inventor: Please also list the date that you signed the accompanying DECLARATION AND POWER OF ATTORNEY:				
, 20				
, 20				
3/1/, 2005 Date				
3/1/ , 20 <u>05</u>				
, 20				
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Attorney	's Docket

ASSIGNMENT

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	,	
No.:	42P20136	(For Execution Prior To Filing Patent Application)

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, _We, the undersigned, _Dave Minturn, James B. Crossland, Sujoy Sen and Greg Cummings 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 ______, ("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 _______ I/O Hub Resident Cache Line Monitor and Device Register Update

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.

Rev. 01/01/2000 (A1 **PATENT**

- 1 -

REEL: 016467 FRAME: 0571

Each Inventor: Please Sign <u>and Date</u> Below:				
, 20	Name: Dave Minturn			
, 20	Name: James B. Crossland			
, 20	Name: Sujoy Sen			
Dec. 16 , 20 <u>04</u> Date	Name: Greg Cummings			
, 20	Name:			
, 20 Date	Name:			

Each Inventor: Please also list the date that you signed the accompanying DECLARATION AND POWER OF ATTORNEY:	
Date	_, 20
Date	, 20
Date	_, 20
Dec 16 Date	_, 2004
Date	_, 20
Date	_, 20

RECORDED: 04/11/2005 REEL: 016467 FRAME: 0572