501881294 04/09/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yen-Cheng Liu	12/08/2011
Robert G. Blankenship	03/08/2012
Geeyarpuram N. Santhanakrishnan	04/04/2012
Ganapati N. Srinivasa	03/31/2012
Kenneth C. Creta	02/13/2012
Sridhar Muthrasanallur	04/04/2012
Bahaa Fahim	02/08/2012

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:	13324053

CORRESPONDENCE DATA

 Fax Number:
 (713)468-8883

 Phone:
 512-418-9944

 Email:
 tphpto@tphm.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Mark J. Rozman

Address Line 1: 1616 S. Voss Road, Suite 750
Address Line 2: TROP, PRUNER & HU, P.C.
Address Line 4: Houston, TEXAS 77057

PATENT

REEL: 028011 FRAME: 0132

ATTORNEY DOCKET NUMBER:	ITL.2523US (P39131)
NAME OF SUBMITTER:	Mark J. Rozman
Total Attachments: 7 source=ITL2523USExAssgn#page1.tif source=ITL2523USExAssgn#page2.tif source=ITL2523USExAssgn#page3.tif source=ITL2523USExAssgn#page4.tif source=ITL2523USExAssgn#page5.tif source=ITL2523USExAssgn#page6.tif source=ITL2523USExAssgn#page7.tif	

ASSIGNMENT

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

YEN-CHENG LIU; ROBERT G. BLANKENSHIP; GEEYARPURAM N. SANTHANAKRISHNAN; GANAPATI N. SRINIVASA; KENNETH C. CRETA; SRIDHAR MUTHRASANALLUR; BAHAA FAHIM

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, 95054 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 International application entitled:

PROVIDING COMMON CACHING AGENT FOR CORE AND INTEGRATED INPUT/OUTPUT (IO) MODULE

(I hereby authorize and request my attorney, associated with Customer Number 47795, to insert on the designated lines below, the filing date and application number of said application when known.)

	which was filed on	12/13/2011	as
	International Application Number	r <u>13/324,053</u>	and
which has bee	en executed by the undersigned prior h	nereto or concurrently here	with on the date(s) indicated below,
and in and to	said International application and all t	related applications (e.g. na	ational phase applications, divisional
applications,	continuation applications, reexaminati	ions, reissues, and the like)	that have been or shall be filed in the
United States	and/or all foreign countries on said in	ventions and improvement	ts, as well as in and to all rights of priority

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, 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 and improvements and the history thereof; and generally assist said Assignee, its

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resulting from the filing of said International application;

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, morgage, 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 by the undersigned.

YEN-CHENG LIU	$\frac{2/08/(1)}{\text{(Today's Date)}}$
ROBERT G. BLANKENSHIP	(Today's Date)
GEEYARPURAM N. SANTHANAKRISHNAN	(Today's Date)
GANAPATI N. SRINIVASA	(Today's Date)
KENNETH C. CRETA	(Today's Date)
SRIDHAR MUTHRASANALLUR	(Today's Date)
BAHAA FAHIM	(Today's Date)

covenant with said Assignce, 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.

YEN-CHENG LIU	(Today's Date)
ROBERT G. BLANKENSHIP	3/8/12 (Today's Date)
GEEYARPURAM N. SANTHANAKRISHNAN	(Today's Date)
GANAPATI N. SRINIVASA	(Today's Date)
KENNETH C. CRETA	(Today's Date)
SRIDHAR MUTHRASANALLUR	(Today's Date)
BAHAA FAHIM	(Today's Date)

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, morgage, 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 by possessed by the undersigned.

YEN-CHENG LIU	(Today's Date)
ROBERT G. BLANKENSHIP	(Today's Date)
Cospida	(Today's Date)
GEEYARPURAM N. SANTHANAKRISHNAN	(Today's Date)
GANAPATI N. SRINIVASA	(Today's Date)
KENNETH C. CRETA	(Today's Date)
SRIDHAR MUTHRASANALLUR	(Today's Date)
BAHAA FAHIM	(Todav's Date)

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Attorney Docket No.: ITL.2523US (P39131)

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, æsigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, morgage, 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 by the undersigned.

YEN-CHENG LIU	(Today's Date)
ROBERT G. BLANKENSHIP	(Today's Date)
GEEYARPURAM N. SANTHANAKRISHNAN	(Today's Date)
GANAPATI N. SRINIVASA	(Today's Date)
KENNETH C. CRETA	2/13/12 (Today's Date)
SRIDHAR MUTHRASANALLUR	(Today's Date)
RAHAA FAHIM	(Today's Date)

improvenents and for vesting this to said levertions and improvenents, and all applications for passets and all parents on said improvements, in said Assignee, its successors, said [egg] representatives; and

coverest with said Assignee, its successors, analysis, and legal representatives that no arriginant, gram, mongage, therees, or other agreement affecting the rights and property basels conveyed has been reade to others by the tap-derigned, and that fight to entirely the same as begin expressed is possessed by the undersigned.

YEN-CHENG LIU	(Tuday's Dmc)
ROBERT G. BLANKENSHIP	(Today's Date)
GEEYARPURAM N. SANTHANAKRISHNAN	(Teday's Dute)
GANAPATI N. SRINTVASA	March, 31, 2012 (Todny's Date)
KENNETH C. CRETA	(Today's Date) 4/4/20/2
SRIDWAN MUTHRASANALLUR	(Today's Date)
BAILAA FAHIM	(Today's Deed)

LUATAL farm

Page 2 xf2

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, morgage, 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 by the undersigned.

YEN-CHENG LIU	(Today's Date)
ROBERT G. BLANKENSHIP	(Today's Date)
GEEYARPURAM N. SANTHANAKRISHNAN	(Today's Date)
GANAPATI N. SRINIVASA	(Today's Date)
KENNETH C. CRETA	(Today's Date)
SRIDHAR MUTHRASANALLUR	(Today's Date)
Pales Elm	$\frac{2/8/20.3}{\text{(Today's Date)}}$
BAHAA FAHIM	(TOURY S Date)

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RECORDED: 04/09/2012

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