

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Randy J. Koval	09/14/2011
Max F. Hineman	09/18/2011
Ronald A. Weimer	09/14/2011
Vinayak K. Shamanna	09/16/2011
Thomas M. Graettinger	09/15/2011
William R. Kueber	09/19/2011
Christopher Larsen	09/16/2011
Alex J. Schrinsky	09/14/2011

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
PCT Number:	US1152850

CORRESPONDENCE DATA

Fax Number: (503)796-2900
 Phone: 503-222-9981
 Email: cdoolittle@schwabe.com
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.
 Correspondent Name: Schwabe, Williamson & Wyatt P.C.
 Address Line 1: 1211 SW Fifth Avenue
 Address Line 2: Suite 1900
 Address Line 4: Portland, OREGON 97204

CH \$40.00 US1152850

PATENT

ATTORNEY DOCKET NUMBER:	123626-182187
NAME OF SUBMITTER:	Christie Doolittle
Total Attachments: 2 source=P38504PCT Assignment#page1.tif source=P38504PCT Assignment#page2.tif	

ASSIGNMENT

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

**RANDY J. KOVAL, MAX F. HINEMAN, RONALD A. WEIMER,
VINAYAK K. SHAMANNA, THOMAS M. GRAETTINGER,
WILLIAM R. KUEBER, CHRISTOPHER LARSEN and ALEX J. SCHRINSKY**

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 International application entitled:

**USE OF ETCH PROCESS POST WORDLINE DEFINITION
TO IMPROVE DATA RETENTION IN A FLASH MEMORY DEVICE**

(I hereby authorize and request my attorney, associated with Customer Number 31817, to insert on the designated lines below, the filing date and application number of said application when known.)

which was filed on September 22, 2011 as

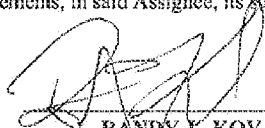
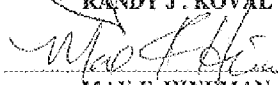
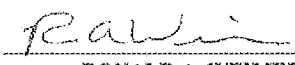
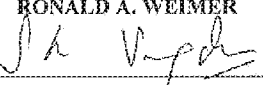


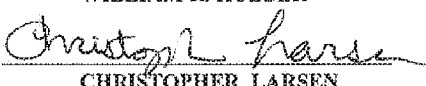
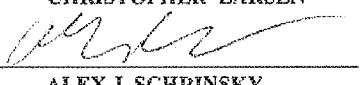
International Application Number PCT/US11/052850 and

which has been executed by the undersigned prior hereto or concurrently herewith on the date(s) indicated below,

and in and to said International application and all related applications (e.g. national phase applications, divisional applications, continuation applications, reexaminations, reissues, and the like) that have been or shall be filed in the United States and/or all foreign countries on said inventions and improvements, as well as in and to all rights of priority resulting from the filing of said International application; and

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, 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 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.

 RANDY J. KOVAL	9/14/2011 (Today's Date)
 MAX F. HINEMAN	9/18/2011 (Today's Date)
 RONALD A. WEIMER	14 Sept 2011 (Today's Date)
 VINAYAK K. SHAMMANA	9-16-11 (Today's Date)
 THOMAS M. GRAETTINGER	9-15-11 (Today's Date)
 WILLIAM R. KUEBER	9/19/11 (Today's Date)
 CHRISTOPHER LARSEN	9/16/11 (Today's Date)
 ALEX J. SCHRINSKY	9/14/2011 (Today's Date)