

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Michele Magistretti</td> <td>06/26/2008</td> </tr> <tr> <td>Fabio Pellizzer</td> <td>06/30/2008</td> </tr> <tr> <td>Augusto Benvenuti</td> <td>06/27/2008</td> </tr> <tr> <td>Marcello Mariani</td> <td>06/26/2008</td> </tr> </tbody> </table>		Name	Execution Date	Michele Magistretti	06/26/2008	Fabio Pellizzer	06/30/2008	Augusto Benvenuti	06/27/2008	Marcello Mariani	06/26/2008
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Michele Magistretti	06/26/2008										
Fabio Pellizzer	06/30/2008										
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Marcello Mariani	06/26/2008										
RECEIVING PARTY DATA											
Name:	Intel Corporation										
Street Address:	2200 Mission College Boulevard										
City:	Santa Clara										
State/Country:	CALIFORNIA										
Postal Code:	95054										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12218171</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12218171						
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Application Number:	12218171										
CORRESPONDENCE DATA											
Fax Number:	(713)468-8883										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	7134688880										
Email:	trop@tphm.com										
Correspondent Name:	Timothy N. Trop										
Address Line 1:	1616 South Voss Road										
Address Line 2:	Suite 750										
Address Line 4:	Houston, TEXAS 77057-2631										
ATTORNEY DOCKET NUMBER:	ITO.0179US										
NAME OF SUBMITTER:	Timothy N. Trop										
Total Attachments: 2											

CH \$40.00 12218171

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**PATENT
 REEL: 023936 FRAME: 0882**

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ASSIGNMENT

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

**MICHELE MAGISTRETTI
FABIO PELLIZZER
AUGUSTO BENVENUTI
MARCELLO MARIANI**

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 entitled:

SELF-ALIGNED VERTICAL BIPOLAR JUNCTION TRANSISTOR FOR PHASE CHANGE MEMORIES

(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 July 11, 2008 as

United States Application Number 12/218,171 and

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

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 resulting 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, 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

