PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| Xijiang Lin | 07/31/2007 |
| Kun-Han Tsai | 06/19/2007 |
| Mark Kassab | 06/19/2007 |
| Chen Wang | 06/19/2007 |
| Janusz Rajski | 06/25/2007 |

RECEIVING PARTY DATA

| Name: | Mentor Graphics Corporation |
|-----------------|-----------------------------|
| Street Address: | 8005 SW Boeckman Road |
| City: | Wilsonville |
| State/Country: | OREGON |
| Postal Code: | 97070-7777 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13285899 |

CORRESPONDENCE DATA

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

via US Mail.

Correspondent Name: Patrick M. Bible, Klarquist Sparkman LLP Address Line 1: 121 SW Salmon Street, Suite 1600

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| ATTORNEY DOCKET NUMBER: | 1011-75661-04 |
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NAME OF SUBMITTER: Patrick M. Bible PATENT

501864699 REEL: 027920 FRAME: 0130

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Total Attachments: 4

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PATENT REEL: 027920 FRAME: 0131

ASSIGNMENT

WHEREAS, we, Kun-Han Tsai, of 12997 Sierra Vista Drive, Lake Oswego, OR 97035, Xijiang Lin, of 19772 Bennington Court, West Linn, OR 97068, Mark Kassab, of 28911 SW Cascade Loop, Wilsonville, OR 97070, Chen Wang, of 10921 SW 111th Avenue, Tigard, OR 97223, and Janusz Rajski, of 6502 Horton Road, West Linn, OR 97068, have invented certain inventions as described in the following patent applications:

- (1) U.S. Provisional Patent Application No. 60/796,212, filed on April 27, 2006, entitled "Timing-Aware Test Generation and Fault Simulation,"
- (2) U.S. Provisional Patent Application No. 60/859,634, filed on November 18, 2006, entitled "Timing-Aware Test Generation and Fault Simulation," and
- (3) U.S. Patent Application No. 11/796,374, filed on April 27, 2007, entitled "Timing-Aware Test Generation and Fault Simulation,"

all of which applications are collectively referred to as "the patent applications."

WHEREAS, Mentor Graphics Corporation, a corporation organized under the laws of the State of Oregon, having a place of business at 8005 SW Boeckman Road, Wilsonville, Oregon 97070-7777, desires to acquire an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, Kun-Han Tsai, Xijiang Lin, Mark Kassab, Chen Wang, and Janusz Rajski, hereby sell, assign and transfer to Mentor Graphics Corporation, the full and exclusive right, title and interest in and to said inventions, patent applications and patent rights throughout the world, including foreign and U.S. patent priority rights (including, but not limited to, the right to claim priority to U.S. Provisional Patent Application Nos. 60/796,212 and 60/859,634), the right to file and prosecute International Applications under the Patent Cooperation Treaty, and the right to file and prosecute applications under the European Patent Convention; said inventions, applications and letters patent in this or any foreign country, and all divisions, continuations, reissues and extensions thereof, to be held and enjoyed by Mentor Graphics Corporation, for its own use and benefit, and for its successors and assigns to the full end of the term for which letters patent may be granted in this or any foreign country, as fully and entirely as the same

PATENT REEL: 027920 FRAME: 0132 would have been held by us had this assignment and sale not been made, and covenant that we have full right so to do, and agree that we will communicate to Mentor Graphics Corporation, or its successors and assigns, any facts known to us respecting said inventions, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything possible to aid Mentor Graphics Corporation, its successors and assigns to obtain and enforce proper patent protection for said invention in this or any foreign country.

We hereby grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information which may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

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RECORDED: 03/23/2012