

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6683791

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RUIFENG GUO	04/25/2021
EMIL GIZDARSKI	04/28/2021
XIAOLEI CAI	04/26/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SYNOPSYS, INC.
<b>Street Address:</b>	690 EAST MIDDLEFIELD ROAD
<b>City:</b>	MOUNTAIN VIEW
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94043
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17244126
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	619-980-2612
<b>Email:</b>	barbara@jlg-iplaw.com
<b>Correspondent Name:</b>	JAQUEZ LAND GREENHAUS LLP/SYNOPSYS, INC.
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<b>ATTORNEY DOCKET NUMBER:</b>	SYNO-010-US2
<b>NAME OF SUBMITTER:</b>	BRUCE W. GREENHAUS
<b>SIGNATURE:</b>	/Bruce W. Greenhaus, Reg. No. 37,339/
<b>DATE SIGNED:</b>	04/29/2021
<b>Total Attachments: 4</b>	
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## ASSIGNMENT OF INVENTION & PATENT RIGHTS

**Assignor:** Ruifeng Guo, Emil Gizdarski and Xiaolei Cai

**Assignee:** Synopsys, Inc.

**Client Ref. No.:** 3539US02

**Attorney Docket No.:** SYNO-010-US2

**Patent Application Final Title:** Cell-Aware Defect Characterization by Considering Inter-Cell Timing

**United States Patent Application Serial No.** (once filed): Unknown

**United States Patent Application filing date** (once filed): Herewith

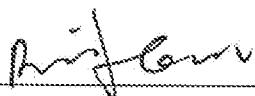
1. Assignor represents that all of the following rights ("Patent Rights") are currently owned by Assignor as either an inventor or a co-inventor: (1) rights to any inventions and/or other intellectual property (collectively, "Inventions") that are the subject matter of and/or described in the Invention Disclosure and/or the Patent Application identified above, (2) rights to the Patent Application, and (3) rights to, and to apply for, foreign and domestic patents, patent applications (including but not limited to divisional, reissue, re-examination, continuation, and continuation-in-part applications), patent-like rights (including but not limited to certificates of invention utility models, and design registrations), and extensions of such rights encompassing or relating to the Inventions or which claim priority to the Patent Application or to any such patent, patent application, patent-like right, or extension.
2. Assignor hereby assigns to Assignee the entire worldwide right, title, and interest of Assignor in and to: (1) the Patent Rights, (2) the right to claim priority based on any of the Patent Rights, (3) improvements to the Inventions made while Assignor is under an obligation to assign such improvements to Assignee, and (4) any claims (known or unknown, suspected or unsuspected) of any nature that Assignor had, has, or may have against any party for infringement of the Patent Rights.
3. Assignor acknowledges receipt of fair and adequate consideration for such assignment. Assignor represents that Assignor has the full right to convey the interests assigned by this Assignment, and has not executed and will not execute any agreement in conflict with this Assignment.
4. Assignor agrees to promptly sign and deliver all lawful papers, make all rightful oaths, communicate to Assignee or its representatives all facts known to Assignor with respect to the Patent Rights, cooperate with Assignee and its representatives, and generally do everything deemed necessary by Assignee (at Assignee's expense but without further compensation) to apply for, prosecute, perfect, assert, enforce, and/or protect the Patent Rights, including but not limited to:
  - (a) enabling Assignee to apply for, prosecute, and perfect any patent or patent-like application within the Patent Rights, and executing separate and/or additional assignments in connection with such Patent Rights and applications, in all countries (including without limitation applying for protection of the Patent Rights under any provisions of the International Convention for Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other national or international patent protection agreements or treaties, whether in the name of Assignor or of Assignee);
  - (b) assisting Assignee in any interference or derivation procedure or action which may be brought concerning any patent or patent-like application within the Patent Rights, including obtaining evidence and testifying in any such procedure or action; and
  - (c) assisting Assignee with respect to any action, suit, or other legal proceeding relating to assertion, enforcement, or protection of any of the Patent Rights, including testifying in any such legal proceeding (in any such legal proceeding, Assignor will be represented by the same legal counsel as Assignee, at Assignee's expense).
5. Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any official of any foreign country or countries whose duty it is to issue patents or patent-

like rights, to issue to Assignee, as the assignee of the entire right, title, and interest therein, any and all Letters Patent resulting from any patent or patent-like application within the Patent Rights.

6. Assignor grants to Assignee the power to insert on this Assignment any further identification (including but not limited to the invention disclosure title and disclosure number, the attorney docket number, and the working title, final title, serial number, and/or filing date of the Patent Application referenced above) which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or any other patent office for recordation of this document.
7. This agreement is binding upon and inures to the benefit of the successors and assigns of the parties. Nothing in this agreement shall supersede or otherwise affect any other obligation owed by Assignor to Assignee.
8. Assignee hereby accepts the assignment made by the Assignor as set forth above.

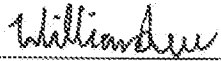
**AGREED BY ASSIGNOR:**

**Assignor:**

Signature:   
Name: Ruifeng Guo

Date: 4/25/2021

**Witness #1:**

Signature:   
Name: \_\_\_\_\_

Date: 4/25/21

**Witness #2:**

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Assignor:**

Signature: \_\_\_\_\_  
Name: Emil Gizdarski

Date: \_\_\_\_\_

**Witness #1:**

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Witness #2:**

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

Date: \_\_\_\_\_

like rights, to issue to Assignee, as the assignee of the entire right, title, and interest therein, any and all Letters Patent resulting from any patent or patent-like application within the Patent Rights.

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8. Assignee hereby accepts the assignment made by the Assignor as set forth above.

**AGREED BY ASSIGNOR:**

**Assignor:**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: Ruifeng Guo

**Witness #1:**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

**Witness #2:**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

**Assignor:**

Signature: Emil Gizdarski

Date: 04/28/2021

Name: Emil Gizdarski

**Witness #1:**

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

**Witness #2:**


Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Assignor:

Signature:



Date:

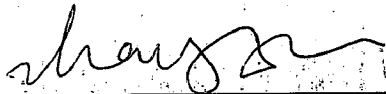
4/26/2021

Name:

Xiaolei Cai

Witness #1:

Signature:



Date:

4/26/2021

Name:

SHU ZHANG

Witness #2:

Signature:

Date:

Name: