



10-26-2001

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ASSIGN



SHEET

101887520

10-1901

To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original documents or copy thereof.

1. Name and address of conveying party:
Name: Synopsys, Inc.
Address: 700 East Middlefield Road, Mountain View, CA 94043
2. Name and address of receiving party:
Name: Artisan Components, Inc.
Address: 141 Caspian Court, Sunnyvale, CA 94089
3. Nature of conveyance

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other _____	<input type="checkbox"/> License Agreement

Execution Date: January 4, 2001

4. Application Number or Patent Number: Application No. 08/885, 148;
U.S. Patent No. 6,177,709 B1

The title of the application is: CELL BASED ARRAY HAVING COMPUTE/DRIVE RATIOS OF N:1

5. Please send all correspondence concerning these documents to:

Albert S. Penilla, Esq.
 MARTINE & PENILLA, LLP
 710 Lakeway Drive, Suite 170
 Sunnyvale, CA 94085
Customer Number 25920
 Tel. No. (408) 749-6900
 Fax No.: (408) 749-6901

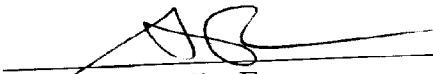
6. Total number of applications and/or patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- Enclosed
 Any deficiency is authorized to be charged to Deposit Account No. 50-0805
 (Order No. ARTCP024)

8. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Date: October 16, 2001



 Albert S. Penilla, Esq.
 Registration No. 39,487

Attorney Docket No. ARTCP024

(Revised 01/96)

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (the "Assignment") is entered into as of January 4, 2001 by Synopsys, Inc., a Delaware corporation having its principal place of business located at 700 East Middlefield Road, Mountain View, California 94043 ("Seller"), for the benefit of Artisan Components, Inc., a Delaware corporation having its principal place of business located at 1195 Bordeaux, Sunnyvale, CA 94089-1210 (the "Company").

RECITALS

WHEREAS, Seller and the Company are party to a certain Asset Purchase Agreement dated as of December 4, 2000, pursuant to which Seller has agreed to assign, among other things, certain intellectual property to the Company:

ASSIGNMENT

NOW, THEREFORE, in consideration of the foregoing and the mutual promises contained herein and other good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, the parties agree as follows:

1. Seller Patents. For purposes of this Assignment, "Seller Patents" shall mean each of the patents and patent applications listed on Schedule 1 hereto, and (i) any other patent rights owned or controlled by Seller in the patents and patent applications listed on Schedule 1, and the inventions covered thereby, and Foreign Counterparts (as defined below) thereof, and (ii) any additional patent rights Seller now owns, controls or has access to, or may own in the future which are now continuations, continuation prosecution applications ("CPAs"), continuations-in-part, divisionals or substitutes of the original applications upon which the aforementioned Schedule 1 patent and patent applications are based, and the inventions covered thereby, or Foreign Counterparts thereof, and upon any reexaminations, reissues, renewals or extensions thereof. "Foreign Counterparts" shall mean all foreign patent applications and issued foreign patents, utility models or invention registrations in any country throughout the world, which claim priority from, or share common priority with, an identified United States patent or patent application, or which claim and disclose substantially similar inventions that are the subject matter of such identified United States patent or patent applications.

2. Assignment. Seller hereby assigns, transfers and conveys to the Company all of Seller's rights, title and interest throughout the world in and to the Seller Patents, the underlying inventions described therein, and all rights, claims and privileges pertaining to the Seller Patents.

3. Effective Date. This Assignment shall be effective as of the date set forth above.

IN WITNESS WHEREOF, the undersigned has executed this Assignment as of the date first written above.

SYNOPSYS, INC., a Delaware corporation.

By: _____

Name: _____

Title: _____

Acknowledged:

ARTISAN COMPONENTS, INC., a Delaware corporation

By:  _____

Name: MARK TEMPLETON _____

Title: PRESIDENT & CEO _____

Date: January 3, 2001

IN WITNESS WHEREOF, the undersigned has executed this Assignment as of the date first written above.

SYNOPSYS, INC., a Delaware corporation.

By: 

Name: _____

Title: _____

Acknowledged:

ARTISAN COMPONENTS, INC., a Delaware corporation

By: _____

Name: _____

Title: _____

Date: January __, 2001



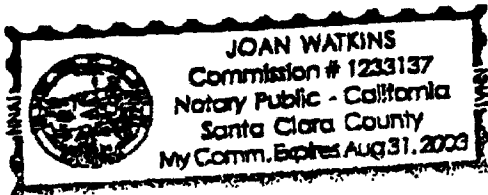
CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California
County of Santa Clara } ss.

On Jan 03, 2001, before me, Joan Watkins, Notary Public
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")
personally appeared Robert B. Hencke
Name(s) of Signer(s)

personally known to me
 proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/hers/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Joan Watkins
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

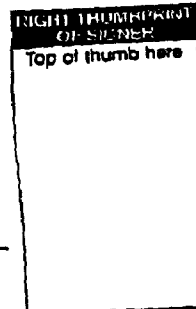
Description of Attached Document
Title or Type of Document: Patent Assignment

Document Date: 1/4/01 Number of Pages: 5

Signer(s) Other Than Named Above: Artisan Components

Capacity(ies) Claimed by Signer
Signer's Name: Robert B. Hencke

- Individual
- Corporate Officer — Title(s): CEO
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer is Representing: Synopsis



ACKNOWLEDGMENT

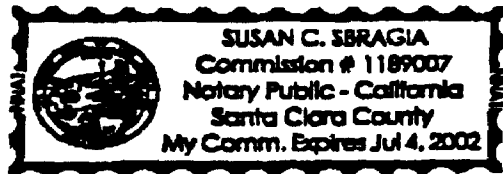
STATE OF CALIFORNIA

COUNTY OF SANTA CLARA

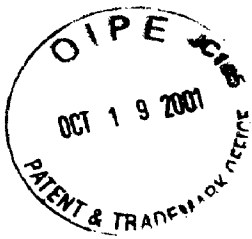
On 1-3, 2001, before me SUSAN C. SBRAGIA, a Notary Public in and for the County and State aforesaid, personally appeared MARK TEMPLETON, who is personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity and that by his/~~her/their~~ signature on such instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS, my hand and official seal.

Susan C. Sbragia
Signature



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SCHEDULE 1

List of Seller Patents (1-14)

1. Synopsys Docket No./Your docket No.: **SNPS #: A1995-017/M-1632**
Title: BASIC CELL ARCHITECTURE FOR MASK PROGRAMMABLE GATE ARRAY WITH THREE OR MORE TRANSISTORS
(1) Application Serial No.: 07/717,140
(2) Patent No. if issued: 5,289,021
(3) Inventors: Abbas ElGamal
(4) Assignment Recordation Date: 6/30/95
(5) Assignment Recordation Frame/Reel: 7534.0160

2. Synopsys Docket No./Your docket No.: **SNPS # A 1995-018 / M1293-div**
Title: BASIC CELL FOR BICMOS GATE ARRAY
(1) Application Serial No.: 07/743,532
(2) Patent No. if issued: 5,341,041
(3) Inventors: Abbas El Gamal
(4) Assignment Recordation Date: 6/30/95
(5) Assignment Recordation Frame/Reel: 7534/0164

3. Synopsys Docket No./Your docket No.: **SNPS #: A 1995-019/ M-1292 RX**
Title: BASIC CELL FOR BiCMOS GATE ARRAY
(1) Application Serial No.: 524,207
(2) Patent No. if issued: 5,068,548
(3) Inventors: Abbas El Gamal

4. Synopsys Docket No./Your docket No.: **SNPS #: A 1995-020/ M-1293 RX**
Title: BiCMOS LOGIC CIRCUIT FOR ASIC APPLICATION
(1) Application Serial No.: 07/524,207
(2) Patent No. if issued: B1-5,055,716
(3) Inventors: Abbas El Gamal
(4) Assignment Recordation Date: 6/30/95
(5) Assignment Recordation Frame/Reel: 7534/0158



5. Synopsys Docket No./Your docket No.: **SNPS #: A 1995-021**
Title: Basic cell for BiCMOS Gate Array
(1) Application Serial No.:
(2) Patent No. if issued: 5,341,041
(3) Inventors:
(4) Assignment Recordation Date:
(5) Assignment Recordation Frame/Reel:

6. Synopsys Docket No./Your docket No.: **SNPS #: A1995-033/ M 3132**
Title: CAD AND SIMULATION SYSTEM FOR TARGETING IC DESIGNS TO MULTIPLE FABRICATION PROCESSES
 - (1) Application Serial No.: 08/511,172
 - (2) Patent No. if issued: 5,754,826
 - (3) Inventors: Abbas ElGamal, David Marple, Justin Reyneri
 - (4) Assignment Recordation Date: 8/4/95
 - (5) Assignment Recordation Frame/Reel: 7622/0345

7. Synopsys Docket No./Your docket No.: **SNPS #: A1995-084/ M-1632**
Title: BASIC CELL ARCHITECTURE FOR MASK PROGRAMMABLE GATE ARRAY WITH THREE OR MORE SIZE TRANSISTORS
 - (1) Application Serial No.: 08/595,567
 - (2) Patent No. if issued: Pending
 - (3) Inventors: Abbas El Gamal
 - (4) Assignment Recordation Date: May 10, 1995

8. Synopsys Docket No./Your docket No.: **SNPS #: A1996-022/49725.015**
Title: METHOD AND APPARATUS FOR REDUCING PROCESS-INDUCED CHARGE BUILDUP
 - (1) Application Serial No.: 08/829,772
 - (2) Patent No. if issued:
 - (3) Inventors: Ali Aranmanesh
 - (4) Assignment Recordation Date: 4/16/98
 - (5) Assignment Recordation Frame/Reel: 9142/0431

9. Synopsys Docket No./Your docket No.: **SNPS #: A1998-032/49725.012**
Title: CELL BASED ARRAY COMPRISING LOGIC, TRANSFER AND DRIVE CELLS
 - (1) Application Serial Nos.: 09/163,890 and 60/060,417
 - (2) Patent No. if issued: Pending
 - (3) Inventors: Ali Iranmanesh
 - (4) Assignment Recordation Date: 12/28/98
 - (5) Assignment Recordation Frame/Reel: 9684/0975

10. Synopsys Docket No./Your docket No.: **SNPS #: A1998-017/49725.018**
Title: REDUCTION OF PROCESS ANTENNA EFFECTS IN INTEGRATED CIRCUITS
(1) Application Serial No.: 09/207,159
(2) Patent No. if issued:
(3) Inventors: Runip Gopisetty and Neeraj Dogra
(4) Assignment Recordation Date: 12/7/98
(5) Assignment Recordation Frame/Reel: 9636/0708
11. Synopsys Docket No./Your docket No.: **SNPS #: A1998-031/49725.019**
Title: CELL BASED ARRAY HAVING COMPUTE/DRIVE RATIOS OF N:1
(1) Application Serial No.: 09/164,000
(2) Patent No. if issued: Pending
(3) Inventors: Ali Iranmanesh and Puneet Sawhney
(4) Assignment Recordation Date: 12/06/99
(5) Assignment Recordation Frame/Reel: 010428/0277
-  12. Synopsys Docket No./Your docket No.: **SNPS #: A1997-016/49725.012**
Title: CELL BASED ARRAY HAVING COMPUTE/DRIVE
(1) Application Serial No.: 08/885,148
(2) Patent No. if issued: Pending
(3) Inventors: Ali Iranmanesh
(4) Assignment Recordation Date: 4/13/98
(5) Assignment Recordation Frame/Reel 9102/0945 
13. Synopsys Docket No./Your docket No.: **SNPS #: A2000-013/49725.067**
Title: VOLTAGE TOLERANT I/O CIRCUIT
(1) Application Serial No.: 09/615,959
(2) Patent No. if issued: Pending
(3) Inventors: Jamil Kawa, et al.
14. Synopsys Docket No./Your docket No.: **SNPS #: A1999-046**
Title: Cell Based Array having Compute/Drive Ratios of N:1
(1) Application Serial No.:
(2) Patent No. if issued:
(3) Inventors: .