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To the Honorable Commissioner of Patents &
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101509320

JC927 U.S. PTO
09/680909

10/06/00

1. Name of the conveying party(ies)

Joseph Boccuzzi, 77 Robin Court, Staten Island, NY 10309
Syang-Myau Hwang, 7517 Orange Blossom Drive, Cupertino, CA 95014
Roopa Rao, 420 Riverside Court, Apt. 206, Santa Clara, CA 95054

Additional name(s) of conveying party(ies) attached? No

2. Name and address of the receiving party(ies):

Cadence Design Systems, Inc.
2655 Seely Road
MS/5B1
San Jose, CA 95134Additional Names(s) and Address(es) Attached
[] Yes [X] No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ OtherExecution Date(s): Joseph Boccuzzi on 09/25/00, Syang-Myau Hwang
on 09/19/00 and Roopa Rao on 10/04/00.

4. Application Number(s) or Patent Number(s)

If this document is being filed together with a new application, the execution date of the application is: 09/19/00

A. Patent Application No(s).

B. Patent No(s).

Additional Numbers Attached? [] Yes [X] No

5. Name and address of party to whom correspondence should be mailed:

John W. Carpenter
CROSBY, HEAFEY, ROACH & MAY
2 Embarcadero Ctr., Ste. 2000, P.O. Box 7936
San Francisco, California 94120-7936
(415) 659-5903 (telephone) // (415) 391-8269 (fax)

DIRECT DIAL: (415) 659-5927

Docket No. 21891.02900

6. Total number of Applications and Patents involved

1

7. Total Fee (37 CFR § 3.41) \$ 40.00

[X] Enclosed [] Previously Paid

[] Authorized to be charged to Deposit Account

8. Deposit Account No. 03-3821. Please reference

Attorney Docket No. 21891.02900

(Attached duplicate copy if paying by Deposit Account)

DO NOT USE THIS SPACE

9. Statement and signature

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.

Nicole Broce

Name of Person Signing

Signature

October 6, 2000

Dated

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:

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ASSIGNMENT

WHEREAS, WE, Joseph Boccuzzi, Syang-Myau Hwang and Roopa Rao hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: SYMBOL TIMING RECOVERY METHOD FOR LOW RESOLUTION
MULTIPLE AMPLITUDE SIGNALS

Application (Declaration/Oath) Execution Date:

Filing Date: Application No.:

WHEREAS, Cadence Design Systems, Inc., a corporation of the State of Delaware, 2655 Seely Rd., MS/5B1, San Jose, CA 95134, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in the said invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for One Dollar (\$1.00) and other good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said Assignee, and Assignee's successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any such Letters Patent.

Assignors further agree that they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

12225258.1

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the date indicated below.

Date: Sept. 25, 2000

Joseph Boccuzzi
Joseph Boccuzzi

State of NEW JERSEY

County of Monmouth

On Sept 25, 2000 before me, A Notary Public,
personally appeared Joseph Boccuzzi personally known to me or 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/her/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.

Paula Laffer
Signature of Notary

SEAL

2003

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the date indicated below.

Date: _____

Kevin Hwang

State of _____

County of _____

On _____ before me, _____,
personally appeared Kevin Hwang personally known to me or 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/her/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.

Signature of Notary

SEAL

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the date indicated below.

Date: _____

Joseph Boccuzzi

State of _____

County of _____

On _____ before me, _____,

personally appeared Joseph Boccuzzi personally known to me or 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/her/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.

Signature of Notary

SEAL

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the date indicated below.

Date: 9/19/2000

Syangmyau Hwang
Kevin Hwang SYANG-MYAU HWANG

State of California

County of USA

On _____ before me, _____,

personally appeared Kevin Hwang personally known to me or 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/her/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.

Signature of Notary

SEAL

IN TESTIMONY WHEREOF, Assignor has hereunto signed his/her name to this assignment on the date indicated below.

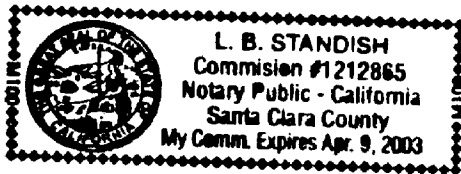
Date: 10-4-00

Roopa Rao
Roopa Rao

State of CALIFORNIA

County of SANTA CLARA

On 10-4-00 before me, L.B. STANDISH, Notary Public
personally appeared Roopa Rao ~~personally known to me~~ or 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~~/her/~~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.

Signature of Notary

[Signature]

SEAL