

05-24-1999



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Patent and Trademark Office

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Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying part(ies):

Lujing Cai Xiao Liu
Weimin Liu Wenye Yang

Additional name(s) of conveying party(ies) attached? [] Yes [X] No

2. Name and address of receiving party(ies)

Name: Globespan Semiconductor Inc.

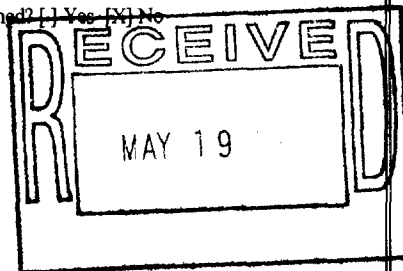
Street Address: 100 Schulz Drive
Red Bank, New Jersey 07701

Additional name(s) & address(es) attached? [] Yes [X] No

3. Nature of conveyance:

[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other:

Execution Date: Lujing Cai - May 3, 1999; Weimin Liu - April 29,
1999; Xiao Liu and Wenye Yang - April 30, 1999



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:

A. Patent application No.(s)

B. Patent No.(s)

09/303,730

Additional numbers attached? [] Yes [X] No

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

Daniel R. McClure, Esquire
Thomas, Kayden, Horstemeyer & Risley, L.L.P.
100 Galleria Parkway, Suite 1500
Atlanta, Georgia 30339

6. Total number of applications/patents involved: [1]

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

[X] Enclosed
[] Authorized to be charged to deposit account

8. Deposit Account Number:

20-0778

(Attach duplicate copy of this page if paying by Deposit Account)

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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.

Michael J. D'Aurelio, Reg. No. 40,977
Name of Person Signing

Michael J. D'Aurelio
Signature

5/14/99
Date

Docket #: 060704-1690

Total number of pages including cover sheet, attachments, and document: [7]

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

PATENT
REEL: 009960 FRAME: 0354

ASSIGNMENT

WHEREAS, the following parties:

<u>Name</u>	<u>Address</u>
Lujing Cai	47 Society Hill Way, Tinton Falls, New Jersey
Weimin Liu	512 Wellington Place, Aberdeen, New Jersey
Xiao Liu	2124 Aldrin Road, Ocean, New Jersey
Wenye Yang	2129 Aldrin Road, Apt. 1B, Ocean, New Jersey

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("Invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

SYSTEM AND METHOD FOR PERFORMING TIME DOMAIN EQUALIZATION,

which was:

- ☐ executed on even date herewith,
- ☒ filed with the United States Patent and Trademark Office (USPTO) on May 3, 1999, and assigned Serial No. 09/303,730, and
- ☒ further described in U.S. Provisional application entitled Fractional Spaced Time Domain Equalizer for DMT, filed with the USPTO on May 13, 1998, and assigned Serial No. 60/085,265.

WHEREAS, Globespan Semiconductor, Inc., having a business at 100 Schulz Drive, Red Bank, New Jersey 07701, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said Invention(s), said Utility application, said Provisional application, and any U.S. and foreign patents which may be granted on the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said Invention(s), said Utility application, and said Provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the United States for said Inventions, including all corresponding

continuations, continuations in part, divisionals, reissues, and reexaminations; (b) the entire right, title and interest in and to said Invention(s), said utility application, and said provisional application for all countries foreign to the United States, including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the United States for them; and (c) the right to sue for past or future infringement of any of the foregoing, and to collect and retain all damages and profits and enjoy all other remedies granted for infringements.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the United States and to ASSIGNEE in all countries foreign to the United States, or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

Luijing Cai

Date: 5/31/99

United States of America

State of New Jersey ss:

County of monmouth

On this 31st day of may, 1999, before me personally came **Luijing Cai** to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.

Debbi L. Todaro

Notary Public

DEBBI L. TODARO

NOTARY PUBLIC OF NEW JERSEY

Commission Expires 8/30/2001

My Commission Expires (Date)



Weimin Liu

Date: Apr. 29, 1999

United States of America

State of New Jersey ss:

County of Monmouth

On this 29 day of April, 1999, before me personally came **Weimin Liu** to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.



Notary Public

DEBBI L. TODARO
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 8/30/2001

My Commission Expires (Date)

Xiao Liu
Xiao Liu

Date: 4/30/99

United States of America

State of New Jersey SS:

County of Monmouth

On this 30th day of April, 1999, before me personally came **Xiao Liu** to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.

Debbi L. Todaro
Notary Public

DEBBI L. TODARO
NOTARY PUBLIC OF NEW JERSEY
Commission Expires 8/30/2001

My Commission Expires (Date)

Wenye Yang
Wenye Yang

Date: 4/30/99

United States of America

State of New Jersey ss:

County of Monmouth

On this 30th day of April, 1999, before me personally came **Wenye Yang** to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.

Debbi L. Todaro

Notary Public

DEBBI L. TODARO

NOTARY PUBLIC OF NEW JERSEY

Commission Expires 8/30/2001

My Commission Expires (Date)

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RECORDED: 05/19/1999

PATENT
REEL: 009960 FRAME: 0360