

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Lawrence H. Zuckerman	08/18/2011
Perry I. Tsao	08/17/2011
Thomas Yang	08/17/2011
Keiichi McGuire	08/19/2011
Chenguang Gong	08/19/2011
Ravichander Bairi	08/18/2011
RECEIVING PARTY DATA	
Name:	National Semiconductor Corporation
Street Address:	2900 Semiconductor Drive
City:	Santa Clara
State/Country:	CALIFORNIA
Postal Code:	95051
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13198498
CORRESPONDENCE DATA	
Fax Number:	(972)628-3616
Phone:	972.628.3600
Email:	patents@munckcarter.com
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>	
Correspondent Name:	Munck Carter/NSC
Address Line 1:	P.O. Drawer 800889
Address Line 4:	Dallas, TEXAS 75380
NAME OF SUBMITTER:	William A. Munck

CH \$40.00 13198498

501694964

**PATENT
 REEL: 027081 FRAME: 0129**

Total Attachments: 6

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ASSIGNMENT OF APPLICATION

Docket Number (Optional) P07737

Whereas, I/We, Lawrence H. Zuckerman of Livermore, California, hereafter referred to as applicant, have invented certain new and useful improvements in DISTRIBUTED MODEM ARCHITECTURES FOR POWER LINE COMMUNICATION SYSTEMS AND OTHER WIRED COMMUNICATION SYSTEMS

[X] for which an application for a United States Patent was filed on August 4, 2011 Application Number 13/198,498

[] for which an application for a United States Patent was executed on ... and Whereas, National Semiconductor Corporation of Santa Clara, California here referred to "assignee" whose mailing address is 2900 Semiconductor Drive, Santa Clara, California 95051 is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of Two dollars (\$ 2.00), the receipt whereof is acknowledge, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 18th day of AUGUST, 20 11 at

Signature of Lawrence H. Zuckerman Printed Name/Registration No., if applicable

State of California County of Santa Clara SS:

Before me personally appeared said Lawrence H. Zuckerman and acknowledged the foregoing instrument to be his free act and deed this 18th day of August, 20 11

Seal of Karen L. Metz



Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, See below*.

Total of 6 forms are submitted.

This form offers a sample or suggested format for an assignment document. This sample form is not an OMB officially approved form.

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

P07737

Whereas, I/We, Perry I. Tsao of Sunnyvale, California, hereafter referred to as applicant, have invented certain new and useful improvements in DISTRIBUTED MODEM ARCHITECTURES FOR POWER LINE COMMUNICATION SYSTEMS AND OTHER WIRED COMMUNICATION SYSTEMS

for which an application for a United States Patent was filed on August 4, 2011
Application Number 13/198,498.

for which an application for a United States Patent was executed on _____, and
Whereas, National Semiconductor Corporation of Santa Clara, California here referred to "assignee" whose mailing address is 2900 Semiconductor Drive, Santa Clara, California 95051 is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of Two dollars (\$ 2.00), the receipt whereof is acknowledge, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 17th day of August, 20 11
at _____

Perry I. Tsao
Signature

State of California
County of Santa Clara SS:

Perry I. Tsao
Printed Name/Registration No., if applicable

Before me personally appeared said Perry I. Tsao
and acknowledged the foregoing instrument to be his free act and deed this 17th
day of August, 20 11

Seal Karen L. Metz



Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, See below*.

Total of 6 forms are submitted.

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ASSIGNMENT OF APPLICATION

Docket Number (Optional)

P07737

Whereas, I/We, Thomas Yang of Milpitas, California, hereafter referred to as applicant, have invented certain new and useful improvements in DISTRIBUTED MODEM ARCHITECTURES FOR POWER LINE COMMUNICATION SYSTEMS AND OTHER WIRED COMMUNICATION SYSTEMS

for which an application for a United States Patent was filed on August 4, 2011
Application Number 13/198,498.

for which an application for a United States Patent was executed on _____, and
Whereas, National Semiconductor Corporation of Santa Clara, California here referred to "assignee" whose mailing address is 2900 Semiconductor Drive, Santa Clara, California 95051 is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of Two dollars (\$ 2.00), the receipt whereof is acknowledge, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 17 day of August, 20 11
at _____

Thomas Yang
Signature
Thomas Yang
Printed Name/Registration No., if applicable

State of California
County of Santa Clara SS:

Before me personally appeared said Thomas Yang
and acknowledged the foregoing instrument to be his free act and deed this 17th
day of August, 20 11.

Seal Karen L. Metz



Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, See below*.

Total of 6 forms are submitted.

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ASSIGNMENT OF APPLICATION

Docket Number (Optional)

P07737

Whereas, I/We, Keiichi McGuire of San Jose, California, hereafter referred to as applicant, have invented certain new and useful improvements in DISTRIBUTED MODEM ARCHITECTURES FOR POWER LINE COMMUNICATION SYSTEMS AND OTHER WIRED COMMUNICATION SYSTEMS

[X] for which an application for a United States Patent was filed on August 4, 2011 Application Number 13/198,498

[] for which an application for a United States Patent was executed on _____, and

Whereas, National Semiconductor Corporation of Santa Clara, California here referred to "assignee" whose mailing address is 2900 Semiconductor Drive, Santa Clara, California 95051 is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of Two dollars (\$ 2.00), the receipt whereof is acknowledge, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

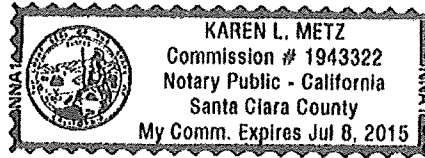
Executed this 19th day of August, 20 11 at _____

[Signature] Signature

State of California County of Santa Clara SS: Keiichi McGuire Printed Name/Registration No., if applicable

Before me personally appeared said Keiichi McGuire and acknowledged the foregoing instrument to be his free act and deed this 19th day of August, 20 11

Seal [Signature of Karen L. Metz]



Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, See below*.

[X] Total of 6 forms are submitted.

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ASSIGNMENT OF APPLICATION

Docket Number (Optional) P07737

Whereas, I/We, Chenguang Gong of Santa Clara, California, hereafter referred to as applicant, have invented certain new and useful improvements in DISTRIBUTED MODEM ARCHITECTURES FOR POWER LINE COMMUNICATION SYSTEMS AND OTHER WIRED COMMUNICATION SYSTEMS

for which an application for a United States Patent was filed on August 4, 2011 Application Number 13/198,498.

for which an application for a United States Patent was executed on _____, and

Whereas, National Semiconductor Corporation of Santa Clara, California here referred to "assignee" whose mailing address is 2900 Semiconductor Drive, Santa Clara, California 95051 is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of Two dollars (\$ 2.00), the receipt whereof is acknowledge, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 19th day of August, 20 11 at _____

[Signature]
Signature

Chenguang Gong
Printed Name/Registration No., if applicable

State of California
County of Santa Clara SS:

Before me personally appeared said Chenguang Gong

and acknowledged the foregoing instrument to be his free act and deed this 19th day of August, 20 11

Seal Karen L Metz



Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, See below*.

Total of 6 forms are submitted.

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ASSIGNMENT OF APPLICATION	Docket Number (Optional) P07737
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Whereas, I/We, Ravichander Bairi of Bangalore, Karnataka, India, hereafter referred to as applicant, have invented certain new and useful improvements in DISTRIBUTED MODEM ARCHITECTURES FOR POWER LINE COMMUNICATION SYSTEMS AND OTHER WIRED COMMUNICATION SYSTEMS

for which an application for a United States Patent was filed on August 4, 2011
Application Number 13/198,498.

for which an application for a United States Patent was executed on _____, and

Whereas, National Semiconductor Corporation of Santa Clara, California here referred to "assignee" whose mailing address is 2900 Semiconductor Drive, Santa Clara, California 95051 is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of Two dollars (\$ 2.00), the receipt whereof is acknowledge, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 18th day of August, 20 11.
at Bangalore, India.

B. Ravichander

Signature

State of _____)

SS:

Ravichander Bairi

County of _____)

Printed Name/Registration No., if applicable

Before me personally appeared said Ravichander Bairi

and acknowledged the foregoing instrument to be his free act and deed this _____

day of _____, 20 11.

Seal

Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, See below*.

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