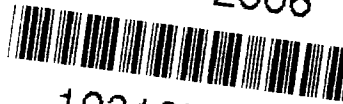


02-27-2006



103185376

2/16/06

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Charles E. Nichols (13 February 2006)
Drew M. Marti (3 February 2006)
William G. Deitz (3 February 2006)

Execution Date(s) (See Above)

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

2. Name and address of receiving party(ies)

Name: LSI Logic Corp.

Internal Address: _____

Street Address: 1621 Barber Lane

IP Legal Dept., Mail Stop D-106

City: Milpitas

State: CA

Country: USA Zip: 95035

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

112991 U.S. PTO
11/355631

021606

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: LSI Logic Corporation

Internal Address: Intellectual Property Legal Department
Mail Stop D-106

Street Address: 1621 Barber Lane

City: Milpitas

State: CA Zip: 95035

Phone Number: 408-433-8000

Fax Number: _____

Email Address: _____

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 12-2252

Authorized User Name Daniel Fishman

9. Signature:

[Handwritten Signature]

Signature

16 February 2006

Date

Daniel Fishman

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

02/24/2006 DBYRME 00000316 122252 11355631

01 FC:8021 (40.00 DA)

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450

ASSIGNMENT OF PATENT APPLICATION

I hereby declare that I am the sole inventor (if only one inventor is named below) or an original, first and joint inventor (if plural inventors are named below) of the invention relating to "**APPARATUS AND METHODS FOR POWER MANAGEMENT AND SPIN-UP IN A STORAGE SYSTEM**" described in an application for Letters Patent of the United States of America;

filed on _____, Serial No. _____ / _____

or,

if not identified here by filing date and serial number, executed by me on even date with my execution of this Assignment.

For valuable consideration received, I hereby sell, assign and transfer to LSI LOGIC CORPORATION, a corporation duly organized and existing under the laws of the State of Delaware, United States of America, its successors and assigns, my entire right, title and interest, for all countries in and to said inventions and all the rights and privileges under any and all Letters Patent that may be granted therefore, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this Assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with LSI LOGIC CORPORATION, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have the full right to convey the same as herein expressed.

I hereby authorize Daniel Fishman, attorney for Assignee, to insert the filing date and Serial number into the first paragraph of this assignment, after the application for Letters Patent has been filed, and the U.S. Patent Office has assigned such application a Serial Number.

I authorize Daniel Fishman, attorney for Assignee, to insert the filing date and Serial number into the first paragraph of this assignment, after the application for Letters Patent has been filed, and the U.S. Patent Office has assigned such application a Serial Number.

This Agreement and Assignment supersedes all other assignments, agreements and addendums related to the above-identified application.

After this Assignment has been recorded, please return it to :

Attn: LSI Logic Corporation
Intellectual Property Law Dept. M/S D-106
1621 Barber Lane
Milpitas, CA 95035

IN WITNESS WHEREOF, We have hereunto signed our names on the day and year set forth below.

Inventor's Signature

DATE

Charles E. Nichols

Inventor's Printed Name

Witness #1 Signature and Date

Witness #1 Printed Name

Witness #2 Signature and Date

Witness #2 Printed Name

LSI Docket No.: 05-0853
Assignment
Page 1 of 2

[Signature]
Inventor's Signature

2/3/06
DATE

Drew M. Marti
Inventor's Printed Name

[Signature] 2/3/06
Witness #1 Signature and Date

[Signature] 2/3/06
Witness #2 Signature and Date

Robert C Coulter
Witness #1 Printed Name

MOHAMAD EL-BATAL
Witness #2 Printed Name

William G. Deitz
Inventor's Signature

2-3-06
DATE

William G. Deitz
Inventor's Printed Name

[Signature] 2/3/06
Witness #1 Signature and Date

[Signature] 2/3/06
Witness #2 Signature and Date

Robert C Coulter
Witness #1 Printed Name

MOHAMAD EL-BATAL
Witness #2 Printed Name

ASSIGNMENT OF PATENT APPLICATION

I hereby declare that I am the sole inventor (if only one inventor is named below) or an original, first and joint inventor (if plural inventors are named below) of the invention relating to "APPARATUS AND METHODS FOR POWER MANAGEMENT AND SPIN-UP IN A STORAGE SYSTEM" described in an application for Letters Patent of the United States of America;

filed on _____, Serial No. _____ / _____

or,

if not identified here by filing date and serial number, executed by me on even date with my execution of this Assignment.

For valuable consideration received, I hereby sell, assign and transfer to LSI LOGIC CORPORATION, a corporation duly organized and existing under the laws of the State of Delaware, United States of America, its successors and assigns, my entire right, title and interest, for all countries in and to said inventions and all the rights and privileges under any and all Letters Patent that may be granted therefore, and any divisions, continuations, reissues and extensions thereof.

I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries.

I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this Assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

I covenant with LSI LOGIC CORPORATION, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have the full right to convey the same as herein expressed.

I hereby authorize Daniel Fishman, attorney for Assignee, to insert the filing date and Serial number into the first paragraph of this assignment, after the application for Letters Patent has been filed, and the U.S. Patent Office has assigned such application a Serial Number.

I authorize Daniel Fishman, attorney for Assignee, to insert the filing date and Serial number into the first paragraph of this assignment, after the application for Letters Patent has been filed, and the U.S. Patent Office has assigned such application a Serial Number.

This Agreement and Assignment supersedes all other assignments, agreements and addendums related to the above-identified application.

After this Assignment has been recorded, please return it to :

Attn: LSI Logic Corporation
Intellectual Property Law Dept. M/S D-106
1621 Barber Lane
Milpitas, CA 95035

IN WITNESS WHEREOF, we have hereunto signed our names on the day and year set forth below.

[Signature]
Inventor's Signature

2/13/06
DATE

Charles E. Nichols
Inventor's Printed Name

[Signature] 2/13/06
Witness #1 Signature and Date

Ray M. Jantz
Witness #1 Printed Name

[Signature] 2/13/06
Witness #2 Signature and Date

William Hetrick
Witness #2 Printed Name

Inventor's Signature

DATE

Drew M. Marti

Inventor's Printed Name

Witness #1 Signature and Date

Witness #1 Printed Name

Witness #2 Signature and Date

Witness #2 Printed Name

Inventor's Signature

DATE

William G. Deitz

Inventor's Printed Name

Witness #1 Signature and Date

Witness #1 Printed Name

Witness #2 Signature and Date

Witness #2 Printed Name

LSI Docket No.: 05-0853
Assignment
Page 2 of 2