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07/30/2008

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Form PTO-1595 (Rev. 07/05)  
OMB No. 0651-0027 (exp. 7/31/2008)



103518734

RECORDATION FORM COVER SHEET  
**PATENTS ONLY**

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)**

Xingdong Dai  
Geoffrey Zhang  
Dwight Daugherty  
Max Olsen

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

**2. Name and address of receiving party(ies)**

Name: Agere Systems, Inc.

Internal Address: \_\_\_\_\_

Street Address: 1110 American Parkway NE

City: Allentown

State: PA

Country: US Zip: 18109

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 07/17/08; 07/21/08; 07/17/08; 07/21/08

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**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: Ian M. Hughes

Internal Address: IP Legal Services, LLC

Street Address: 1500 Lancaster Avenue; Suite 100

PO Box 1027

City: Paoli

State: PA Zip: 19301

Phone Number: 610-640-9350

Fax Number: 610-640-9353

Email Address: ipis@ip-legal-svcs.com

**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☒ 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 1008  
Expiration Date 11/08

b. Deposit Account Number 50-4386

Authorized User Name Ian M. Hughes

**9. Signature:**

Signature

07/30/2008

Date

Ian M. Hughes

Name of Person Signing

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

6

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

18/01/2008 HLE333

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PATENT  
REEL: 021386 FRAME: 0064

Customer No.: 74402

Attorney Docket No. Dai 11-10-8-7

ASSIGNMENT AND AGREEMENT

For value received, I, as a below-named inventor:

**Xingdong Dai of Whitehall in the County of Lehigh and State of Pennsylvania,  
Geoffrey Zhang of Allentown in the County of Lehigh and State of Pennsylvania,  
Dwight Daugherty of Ephrata in the County of Lancaster and State of**

**Pennsylvania, and**

**Max Olsen of Mertztown in the County of Berks and State of Pennsylvania,**

hereby sell, assign and transfer to Agere Systems Inc., a corporation of the State of Delaware, having an office at 1110 American Parkway NE, Allentown, PA 18109, U.S.A., and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to **ADAPTIVE EQUALIZATION EMPLOYING PATTERN RECOGNITION** described in an application for Letters Patent of the United States, executed by us of even date herewith, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and I also concurrently hereby sell, assign and transfer to Agere Systems Inc. the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

I authorize Agere Systems Inc. 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 us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I hereby consent 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 Agere Systems Inc. to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

I request that any and all patents for said inventions be issued to Agere Systems Inc. in the United States and in all countries foreign to the United States, or to such nominees as Agere Systems Inc. may designate.

300.053

Customer No.: 74402

Attorney Docket No. Dai 11-10-8-7

I agree that, when requested, I shall, without charge to Agere Systems Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

  
XINGDONG DAI

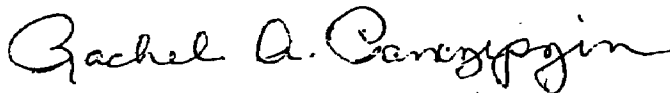
Date: 7/17/2008

United States of America )

State of Pennsylvania ) ss:

County of Lehigh )

On this 17 day of July, 2008, before me personally came **Xingdong Dai**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



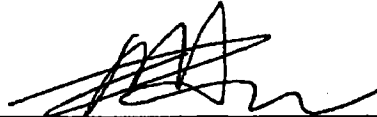
COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Rachel A. Panczynski, Notary Public  
City Of Allentown, Lehigh County  
My Commission Expires July 14, 2009  
Member, Pennsylvania Association of Notaries

300.053  
Customer No.: 74402

Attorney Docket No. Dai 11-10-8-7

PATENT  
REEL: 021386 FRAME: 0066

I agree that, when requested, I shall, without charge to Agere Systems Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection...



GEOFFREY ZHANG


Date: 7/21/2008

United States of America )

State of Pennsylvania ) ss:

County of Lehigh )

On this 21 day of July, 2008, before me personally came **Geoffrey Zhang**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Rachel A. Panczyzin, Notary Public  
City Of Allentown, Lehigh County  
My Commission Expires July 14, 2009

Member, Pennsylvania Association of Notaries

300.053

Customer No.: 74402

Attorney Docket No. Dai 11-10-8-7

I agree that, when requested, I shall, without charge to Agere Systems Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Dwight Daugherty  
DWIGHT DAUGHERTY

Date: 7-17-08

United States of America )

State of Pennsylvania ) ss:

County of Lehigh )

On this 17 day of July, 2008, before me personally came **Dwight Daugherty**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Rachel A. Panczyzin

COMMONWEALTH OF PENNSYLVANIA

Notarial Seal

Rachel A. Panczyzin, Notary Public  
City Of Allentown, Lehigh County  
My Commission Expires July 14, 2009

Member, Pennsylvania Association of Notaries

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Customer No.: 74402

Attorney Docket No. Dai 11-10-8-7

PATENT  
REEL: 021386 FRAME: 0068

I agree that, when requested, I shall, without charge to Agere Systems Inc. but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

  
\_\_\_\_\_  
MAX OLSEN

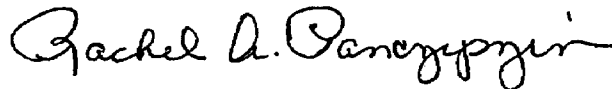
Date: 7/21/08

United States of America )

State of Pennsylvania ) ss:

County of Lehigh )

On this 21 day of July, 2008, before me personally came **Max Olsen**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Rachel A. Panczyzin, Notary Public  
City Of Allentown, Lehigh County  
My Commission Expires July 14, 2009  
Member, Pennsylvania Association of Notaries

300.053