

12-21-04

Docket No.: 27491.002

Form PTO-1595 (Rev. 09/04)  
OMB No. 0651-0027 (exp. 6/30/2005)

01-05-2005

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Yuliang ZHENG

Execution Date(s): 12/15/2004

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- ☒ 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: Wachovia Corporation

Internal Address:

Street Address: 201 South College Street

City: Charlotte

State: NC

Country: US Zip: 28288

Additional name(s) & address(es) attached? ☐ Yes ☒ No17497 U.S. PTO  
11/018806

122104

**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: James D. Wright

Internal Address: Kennedy Covington Lobdell &  
Hickman, LLPStreet Address: 214 North Tryon Street  
Hearst Tower, 47th Floor

City: Charlotte

State: NC Zip: 28202

Phone Number: 704.331.7400

Fax Number: 704.353.3263

Email Address: jwright@kennedycovington.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

Expiration Date

b. Deposit Account Number 18-1215

Authorized User Name James D. Wright

**9. Signature:**

Signature

December 21, 2004

Date

James D. Wright

Total number of pages including cover

4

01/04/2005 BYRNE 00000045 11018806

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Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450PATENT  
REEL: 016114 FRAME: 0573

# ASSIGNMENT

WHEREAS,

**YULIANG ZHENG  
3122 Bridle Brook Way  
Charlotte, North Carolina 28270**

(hereinafter "Assignor") has invented certain new and useful improvements and/or designs (hereinafter "Invention"), for a full description of which reference is here made to a patent application entitled:

## **PLATFORM INDEPENDENT RANDOMNESS ACCUMULATOR FOR NETWORK APPLICATIONS**

(hereinafter "Application") filed or to be filed with the U.S. Patent & Trademark Office, and for which Assignor hereby authorizes and requests Assignee to fill in the following blanks specifying the serial number and filing date for said application identified above (but Assignee's failure to do so shall have no bearing whatsoever upon the validity or legal effect of this Assignment):

Serial Number: \_\_\_\_\_

Filed on: \_\_\_\_\_; and

WHEREAS,

**Wachovia Corporation  
201 South College Street  
Charlotte, North Carolina 28288**

(hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in, to, and under the Invention and the Application, and in, to, and under any and all patents that may be obtained for the Invention, together with all foreign rights corresponding thereto;

NOW, THEREFORE, to all whom it may concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor has agreed to sell, assign, transfer and convey, and by these presents

do hereby sell, assign, transfer and convey, unto Assignee the entire right, title, and interest in, to and under:

- The Invention and the Application;
- Any patent of the United States of America that may be obtained for the Invention;
- Any corresponding applications for patent of the Invention in any and all foreign countries; and
- Any reissue, extension, renewal, substitution, confirmation, division, continuation and the like of any of the foregoing (hereinafter collectively "Invention Rights").

FURTHERMORE,

Assignor hereby covenants and agrees, and binds any and all heirs, administrators, legal representatives, and assigns, to assist and cooperate with Assignee in the preparation and prosecution of any application included within the Invention Rights and in the prosecution or defense of any interference, opposition, or other proceeding that may arise in connection with any application or patent included within the Invention Rights and, further, to execute and deliver to Assignee any and all additional petitions, oaths, assignments, or other papers or instruments that may be requested by Assignee for the purpose of implementing the terms of this Agreement.

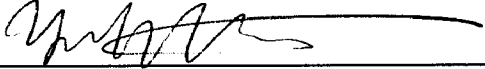
Assignor hereby authorizes and empowers Assignee to invoke and claim for any application or patent included within the Invention Rights the benefit of any rights to which Assignor might be entitled under international law or under the laws of any particular foreign country, and to invoke and claim such rights without further written or oral authorization from Assignor.

Assignor hereby consents and agrees that a copy of this Assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file, or like document that may be required in any particular foreign country for any purpose and, more particularly, in proof of the right of Assignee to claim the aforesaid benefit of the right of priority.

Assignor covenants and agrees that this Assignment and all the terms thereof shall inure to the benefit of the successors, assigns, legal representatives, or nominees of Assignee, without further written or oral authorization from Assignor.

Finally, Assignor hereby authorizes and requests the Commissioner of Patents and Trademarks of the United States Patent and Trademark Office to issue any patent included within the Inventions Rights to Assignee.

This the 15 day of December, 2004.



**YULIANG ZHENG** (Assignor)

NOTARIZATION

State of North Carolina)

County of Mecklenburg)  
United States of America

On this 15<sup>th</sup> day of December, 2004, appeared before me the above-identified person who executed the foregoing document, and who acknowledged that he signed it as a free act on his own behalf (or on behalf of the identified corporation or other juristic entity, and with authority to do so).

Kathie D. McGee  
Notary Public

My Commission Expires: 3/27/2005