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U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

09-19-2007



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To the Director of the U.S. Patent and

documents or the new address(es) below.

**1. Name of conveying party(ies)**

Alexei Ashikhmin

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

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

Execution Date(s) 09/05/2007

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

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

Name: LUCENT TECHNOLOGIES, INC.

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

Street Address: 600 Mountain Avenue

City: Murray Hill

State: New Jersey

Country: USA Zip: 07974-0636

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

**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)

1. Filing Date: September 6, 2007

2. Title: Providing Feedback in a MIMO System

09/10/2007 SSITHIB1 00000015 11899494

04 FC 8021

40.00 DP

Additional numbers attached? ☐ Yes ☒ No

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

Name: Michael G. Fletcher

Internal Address: Fletcher Yoder

Street Address: P.O. Box 692289

City: Houston

State: Texas Zip: 77269-2289

Phone Number: 281-970-4545

Fax Number: 281-970-4503

Email Address: \_\_\_\_\_

**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 7024  
Expiration Date 06/2008

b. Deposit Account Number \_\_\_\_\_  
Authorized User Name Michael G. Fletcher

**9. Signature:**

Signature

September 6, 2007

Date

Michael G. Fletcher

Name of Person Signing

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

3

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

PATENT  
REEL: 019857 FRAME: 0620

## ASSIGNMENT AND AGREEMENT

For value received, I, **Alexel Ashikhmin** of **Morristown** in the County of **Morris** and State of **New Jersey**, hereby sell, assign and transfer to **Lucent Technologies Inc.**, a corporation of the State of Delaware, having an office at **600 Mountain Avenue, Murray Hill, New Jersey 07974-0636, 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 **"PROVIDING FEEDBACK IN A MIMO SYSTEM"** 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 we also concurrently hereby sell, assign and transfer to **Lucent Technologies 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.

We authorize **Lucent Technologies 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.

We 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 **Lucent Technologies Inc.** to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to **Lucent Technologies Inc.** in the United States and in all countries foreign to the United States, or to such nominees as **Lucent Technologies Inc.** may designate.


We agree that, when requested, we shall, without charge to Lucent Technologies 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.

  
\_\_\_\_\_  
Alexei AshikhminDate: Sept. 5, 2007

United States of America )

State of New Jersey ) ss.:County of Union )

On this 5 day of Sept., 2007, before me personally came **Alexei Ashikhmin**, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

  
\_\_\_\_\_  
Notary Public  
Diane C. Thomas  
Notary Public  
of New Jersey  
My Commission  
Expires July 11, 2011

Lucent Technologies Inc.  
Docket Administrator  
600-700 Mountain Avenue  
Murray Hill, New Jersey 07974-0636