FORM PTO- Expires 06/30/99 OMB 0651-0027	1619A		U.S. Department of Commerce Patent and Trademark Office PATENT	
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TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).				
Submission Type Conveyance Type				
<b>✗</b> New		Assignment Security Ag	reement	
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Conveying F	Party(ies)	Mark if additional names of conveying pa	arties attached Execution Date  Month Day Year	
Name (line 1)	Steven L. Gay		09 26 2002	
Name (line 2)			<del></del> 1	
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Name (line 1)	Lucent Technologies, Inc	•	If document to be recorded is an assignment and the	
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Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments , Washington, D.C. 20231

**REEL: 013345 FRAME: 0471** 

FORM PTC Expires 06/30/99 OMB 0651-0027		U.S. Department of Commerce Patent and Trademark Office PATENT			
Correspondent Name and Address  Area Code and Telephone Number (972) 480-8800					
Name	David H. Hitt				
Address (line 1)	Hitt Gaines & Boisbrun, P.C.				
Address (line 2)	P.O. Box 832570				
Address (line 3)	Richardson, Texas 75083				
Address (line 4)					
Pages	Enter the total number of pages of the attached conveyance document including any attachments.	# 4			
If this document is signed by the first entire only has	ent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the salent Application Number(s)  Patent Number  Septing filed together with a new Patent Application, enter the date the patent application was at named executing inventor.  Per PCT application number  If a U.S. Application Number PCT  PCT  PCT  PCT  PCT  PCT  PCT  PCT				
Number of Properties  Enter the total number of properties involved. # 1					
Fee Amount  Fee Amount for Properties Listed (37 CFR 3.41): \$40.00  Method of Payment: Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.) Deposit Account Number:  Authorization to charge additional fees:  Yes  No  Statement and Signature					
Statement a	nd Signature				

To the best of my knowledge and belief, the foregoing information is true and correct and any

indicated herein.

David H. Hitt

Name of Person Signing

attached copy is a true copy of the original document. Charges to deposit account are authorized, as

Signature

PATENT REEL: 013345 FRAME: 0472

09/27/2002

Date

## **ASSIGNMENT**

For value received, I, Steven L. Gay, of Long Valley in the County of Morris and the 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 "Solution Space Principle Component-Based Adaptive Filter and Method of Operation Thereof" described in an application for Letters Patent of the United States, executed by me 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.

I 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 me, 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 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.

I 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.

I agree that, when requested, I 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.

PATENT REEL: 013345 FRAME: 0473 Steven L. Gay

STATE OF <u>few Jewey</u> §
COUNTY OF <u>UMM</u> §

On this 26 day of 2002, before me personally came Steven L. Gay, to me known to be the individual described herein and who executed the foregoing instrument, and acknowledged execution of the same.

Notary Public

My Commission Expires:

DIANE C. THOMAS

NOTARY PUBLIC OF NEW JERSEY
My Commission Expires July 11, 2006

Lucent Technologies, Inc. 600 Mountain Avenue (Room 3C-512) P.O. Box 636 Murray Hill, New Jersey 07974-0636

**RECORDED: 09/27/2002**