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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Benjamin Rulf Ming-Ju Tsai Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: Lucent Technologies Inc. Street Address: 600 Mountain Avenue P. O. Box 636 Murray Hill, NJ 07974-0636 Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: 10/18/1999 & 7/20/1999			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 09/335330 B. Patent No. (s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Docket Administrator Internal Address: Room 3C-512 Street Address: 600 Mountain Avenue P. O. Box 636 Murray Hill, New Jersey 07974-0636		6. Total number of applications and patents involved: 1	
		7. Total fee (37 CFR 3.41) \$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account	
		8. Deposit account number: 12-2325 (Attach duplicate copy of this page if paying by deposit account)	
9. Statement and signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> <div style="display: flex; justify-content: space-between;"><div><u>Christopher Malvone</u> Name of Person Signing</div><div> Signature</div><div><u>October 18, 1999</u> Date</div></div> <p style="text-align: center;">Total number of pages including Assignment, Cover Sheet, and attachments: 4</p>			

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

10/22/1999 DNGUYEN 00000325 122325 09335330

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PATENT
REEL: 010336 FRAME: 0853

ASSIGNMENT AND AGREEMENT


For value received, we, Benjamin Rulf, of Springfield in the County of Union and State of New Jersey, and Ming-Ju Tsai, of Livingston in the County of Essex 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 **Double Slot Array Antenna** described in an application for Letters Patent of the United States, Serial No. 09/335330, filed June 17, 1999, 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.

B. Rulf 1-4



Ming-Ju Tsai

Date: 7/20/99

United States of America)
State of New Jersey) ss.:
County of Union)

On this 20th day of July, 1999, before me
personally came Ming-Ju Tsai, to me known to be the individual described in and who
executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

SHEILA R. COLE
A NOTARY PUBLIC OF NEW JERSEY
My Commission Expires 10/18/2000

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

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.

B. Rulf
Benjamin Rulf

Date: 10/18/99

United States of America)

State of New Jersey) ss.:

County of Morris)

On this 18th day of October, 19 99, before me personally came Benjamin Rulf, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Barbara Armstrong
Notary Public

BARBARA ARMSTRONG
Notary Public of New Jersey
My Commission Expires July 14, 2004