

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Rajiv Laroia</td><td>05/23/2001</td></tr><tr><td>Junyi Li</td><td>05/23/2001</td></tr><tr><td>Sundeeep Rangan</td><td>05/23/2001</td></tr><tr><td>Hemanth T. Sampath</td><td>06/06/2001</td></tr></tbody></table>	Name	Execution Date	Rajiv Laroia	05/23/2001	Junyi Li	05/23/2001	Sundeeep Rangan	05/23/2001	Hemanth T. Sampath	06/06/2001	
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Rajiv Laroia	05/23/2001										
Junyi Li	05/23/2001										
Sundeeep Rangan	05/23/2001										
Hemanth T. Sampath	06/06/2001										
RECEIVING PARTY DATA											
Name:	Lucent Technologies, Inc.										
Street Address:	600 Mountain Ave.										
Internal Address:	P.O. Box 636										
City:	Murray Hill										
State/Country:	NEW JERSEY										
Postal Code:	07974										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11322538</td></tr></tbody></table>	Property Type	Number	Application Number:	11322538							
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Application Number:	11322538										
CORRESPONDENCE DATA											
Fax Number:	(858)658-2505										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	858-845-2174										
Email:	trlasher@qualcomm.com										
Correspondent Name:	Qualcomm, Incorporated										
Address Line 1:	5775 Morehouse Dr.										
Address Line 4:	San Diego, CALIFORNIA 92121										
ATTORNEY DOCKET NUMBER:	060522C1										
NAME OF SUBMITTER:	Thomas Lasher										

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PATENT
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Total Attachments: 5

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PATENT

REEL: 020721 FRAME: 0594

LAROIA 17-10-5-1

ASSIGNMENT AND AGREEMENT

For value received, we, Rajiv Laroia, of Basking Ridge, in the County of Somerset and State of New Jersey, Junyi Li of Bedminster, in the County of Somerset and State of New Jersey, Sundeep Rangan, of Hoboken, in the County of Hudson and State of New Jersey, and Hemanth T. Sampath, of Bethesda, in the County of Montgomery and state of Maryland, hereby sell, assign and transfer to Lucent Technologies Inc., a corporation of the State of Delaware, having an office at 600 Mountain Avenue, P.O. Box 636, 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 **METHOD AND APPARATUS FOR TIME AND FREQUENCY SYNCHRONIZATION OF OFDM COMMUNICATION SYSTEMS**, described in an application for Letters Patent of the United States, filed simultaneously 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.

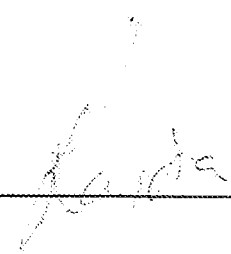
We authorize Lucent Technologies Inc. to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization 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.


LAROIA 17-10-5-1

RAJIV LAROIA 

Date: 5-23-01

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

On this 23rd day of May, 2001, before me personally came Rajiv Laroia, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.


Notary Public

AMY AXELROD
NOTARY PUBLIC OF NEW JERSEY
My Commission Exp. Feb. 14, 2002

LAROIA 17-10-5-1

JUNYI LI

Date: 5-25-01

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

On this 23rd day of May, 2001, before me personally came Juny Li, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Amy Axelrod
Notary Public

AMY AXELROD
NOTARY PUBLIC OF NEW JERSEY
My Commission Exp. Feb. 14, 2003

LAROIA 17-10-5-1

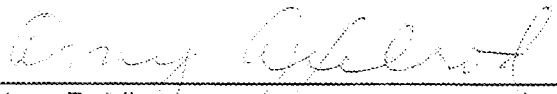


SUNDEEP RANGAN

Date: 5-23-01

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

On this 25th day of May, 2001, before me personally came Sundeep Rangan, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.



Notary Public

AMY AXELROD
NOTARY PUBLIC OF NEW JERSEY
My Commission Exp. Feb. 14, 2007

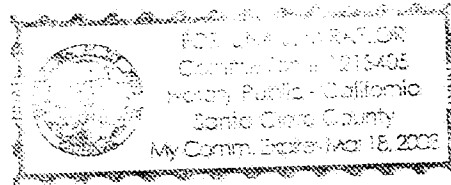
LAROIA 17-10-5-1

Hemanth

HEMANTH T. SAMPATH

Date: 6/6/01

United States of America)
State of California)ss.:
County of Sta. Clara)



On this 6th day of June, 2001, before me personally came Hemanth T. Sampath, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

[Signature]

Notary Public