

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Apurva N. Mody</td> <td>11/26/2002</td> </tr> <tr> <td>Gordon L. Stuber</td> <td>11/27/2002</td> </tr> </tbody> </table>		Name	Execution Date	Apurva N. Mody	11/26/2002	Gordon L. Stuber	11/27/2002				
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Georgia Tech Research Corporation</td> </tr> <tr> <td>Street Address:</td> <td>505 10th Street, N.W.</td> </tr> <tr> <td>City:</td> <td>Atlanta</td> </tr> <tr> <td>State/Country:</td> <td>GEORGIA</td> </tr> <tr> <td>Postal Code:</td> <td>30332-0415</td> </tr> </table>		Name:	Georgia Tech Research Corporation	Street Address:	505 10th Street, N.W.	City:	Atlanta	State/Country:	GEORGIA	Postal Code:	30332-0415
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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>13418626</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13418626						
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CORRESPONDENCE DATA											
<p>Fax Number: 6082584258 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 608 258-4292 Email: ipdocketing@foley.com</p> <p>Correspondent Name: Paul S. Hunter Address Line 1: Foley & Lardner LLP Address Line 2: 150 East Gilman Street Address Line 4: Madison, WISCONSIN 53703</p>											
ATTORNEY DOCKET NUMBER:	088245-9803										
NAME OF SUBMITTER:	Paul S. Hunter										
<p>Total Attachments: 4 source=InvtoGA#page1.tif source=InvtoGA#page2.tif source=InvtoGA#page3.tif source=InvtoGA#page4.tif</p>											

OP \$40.00 13418626

**ASSIGNMENT
OF UTILITY PATENT APPLICATION**

WHEREAS, the following parties:

Name

Address

Apurva N. Mody
Gordon L. Stuber

327155 Georgia Tech Station, Atlanta, GA 30332
1052 Arbor Trace, Atlanta, GA 30318

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

**PREAMBLE STRUCTURES FOR SINGLE-INPUT, SINGLE-OUTPUT (SISO) AND
MULTI-INPUT, MULTI-OUTPUT (MIMO) COMMUNICATION SYSTEMS,**

which was:

- ☐ executed on even date herewith,
- ☒ filed with the United States Patent and Trademark Office (USPTO) on 10/04/2002, and assigned Serial No. 10/264,546, and
- ☒ further described in U.S. Provisional application entitled "Preamble Structures for SISO and MIMO OFDM Systems," filed with the USPTO on October 4, 2001, and assigned Serial No. 60/327,145.

Note: Only one of the first two checkboxes will be checked. The third checkbox will be checked, only if appropriate.

WHEREAS, Georgia Tech Research Corporation, having a place of business at 505 10th Street, N.W., Atlanta, Georgia, 30332-0415, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and

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transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents 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 ASSIGNEE to apply for patent or other form of protection for said inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

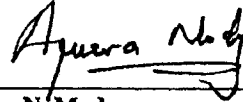
ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

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Apurva N. Mody

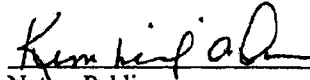
Date: Nov. 26, 2002

United States of America

State of Georgia

County of Fulton

On this 26th day of November, 2002, before me personally came Apurva N. Mody to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.




Notary Public

Notary Public, Rockdale County, Georgia
My Commission Expires January 27, 2006

My Commission Expires (Date)

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Gordon L. Stuber

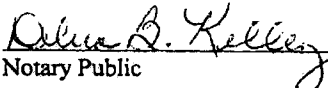
Date: November 27, 2002

United States of America

State of

County of

On this 27th day of November, 2002, before me personally came Gordon L. Stuber to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.



Notary Public

10/11/02

My Commission Expires (Date)

RECORDED: 12/17/2002

PATENT
REEL: 013590 FRAME: 0025

RECORDED: 12/04/2012

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REEL: 029398 FRAME: 0482