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Attorney Docket No. 1789-01910

U. S. DEPARTMENT OF COMMERCE

FORM PTO-1595

(Rev. 6-93) Patent and Trademark Office

OMB No. 0651-0011 (exp. 4/94)



101416540

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

1. Name of conveying parties(ies):

1. Rohit V. GAIKWAD
2. Richard G. BARANIUK

Additional name(s) of conveying party(ies):

Attached? ☐ Yes ☒ No

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

Wm. Marsh Rice University
6100 Main Street
Houston, Texas 77005

Additional name(s) & address(es)

Attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: 1. June 14, 2000 2. June 19, 1000

4. Application number(s) or patent number(s): 09/510,966

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.: 09/510,966
Filing Date: February 21, 2000

B. Patent No(s).

Additional numbers attached? ☐ Yes ☒ No

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

Daniel J. Krueger
Conley, Rose & Tayon, P.C.
P.O. Box 3267
Houston, Texas 77253-3267

6. Total number of application and patents involved: 1

7. Total fee (37 CFR 3.41)\$ 40.00

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit account number: 03-2769

(Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy if a true copy of the original document

Daniel J. Krueger
Name of Person Signing

Dan Krueger
Signature

June 28, 2000
Date

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

ASSIGNMENT

WHEREAS, We, **Rohit V. GAIKWAD and Richard G. BARANIUK**, are joint inventors of **SIGNALING TECHNIQUES IN CHANNELS WITH ASYMMETRIC POWERS AND CAPACITIES**; which is the subject of United States Letters Patent Application Serial No. 09/510,966, filed February 21, 2000, Attorney File No. 1789-01910; and

WHEREAS, WM. MARSH RICE UNIVERSITY, a university doing business at 6100 Main Street, Houston, Texas, 77005, is desirous of acquiring the entire right, title and interest in and to the aforesaid invention throughout the world, and all right, title and interest in, to and under any and all Letters Patent of the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby sell, assign, transfer and set over to WM. MARSH RICE UNIVERSITY, all right, title and interest in and to the said invention throughout the world, and said application for U.S. Letters Patent, and any and all divisions, continuations, and reissues thereof, and any and all Letters Patent of the United States and foreign countries which may be granted therefor, the same to be held and enjoyed by WM. MARSH RICE UNIVERSITY for its own use and benefit, and for the use and benefit of its successors, assigns, or other legal representatives, to the end of the term or terms for which said Letters Patent of the United States or foreign countries are or may be granted or reissued, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States on said invention or resulting from said application and from any and all divisions, continuations, and reissues thereof, to WM. MARSH RICE UNIVERSITY, as assignee of our entire interest, and hereby covenant that we have the full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith.

And we further hereby covenant and agree that we will, at any time, upon request, execute and deliver any and all papers that may be necessary or desirable to perfect the title of said invention and to such Letters Patent as may be granted therefor, to WM. MARSH RICE UNIVERSITY, its successors, assigns, or other legal representatives and that if WM. MARSH RICE UNIVERSITY, its successors, assigns or other legal representatives shall desire to file any divisional or continuation applications or to secure a reissue of such Letters Patent, or to file a disclaimer relating thereto, will upon request, sign all papers, make all rightful oaths and do all lawful acts requisite for the filing of such divisional or continuation application, or such application for reissue and the procuring thereof, and for the filing of such disclaimer, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

And we do further covenant and agree that we will, at any time upon request, communicate to WM. MARSH RICE UNIVERSITY, its successors, assigns or other legal representatives, such facts relating to said invention and Letters Patent or the file history thereof as may be known to us, and testify as to the same in any interference or other litigation when

requested so to do, without further compensation but at the expense of said assignee, its successors, or other legal representatives.

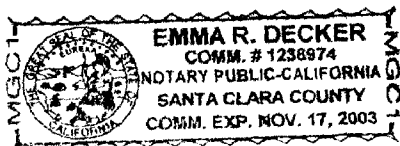
EXECUTED THIS 14th day of JUNE, 2000.

Rohit V. GAIKWAD
Rohit V. GAIKWAD

STATE OF California §
COUNTY OF Santa Clara §

BEFORE ME, the undersigned authority, on this day personally appeared **Rohit V. GAIKWAD**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 14 day of June, 2000.



Emma R. Decker
Notary Public in and for the State of Texas

EXECUTED THIS 19th day of June, 2000.

Richard G. BARANIUK
Richard G. BARANIUK

STATE OF TEXAS §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared **Richard G. BARANIUK**, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 19th day of June, 2000.

Mon Durbach
Notary Public in and for the State of Texas
