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U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Robert Conrad Malkemes
Robert Anthony Ziegler

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Bell Communications Research, Inc.

Internal Address: _____

Street Address: 290 West Mount Pleasant Avenue

City: Livingston

State: New Jersey

Country: United States Zip: 07039

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 4-9-09; 2-17-09

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

5,708,681

Additional numbers attached? Yes No

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

Name: Joseph D'Avanzo

Internal Address: Telcordia Technologies, Inc.

Street Address: One Telcordia Drive 5G107

City: Piscataway

State: New Jersey Zip: 08854-4157

Phone Number: (732) 699-3673

Fax Number: (732) 336-3004

Email Address: jdavanzo@telcordia.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 021822

Authorized User Name Joseph D'Avanzo

9. Signature:

Joseph D'Avanzo
Signature

4/23/09
Date

Joseph D'Avanzo
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 021822 5708681

CONFIRMATORY ASSIGNMENT OF PATENT RIGHTS

For valuable consideration, the receipt and sufficiency of this Confirmatory Assignment of Patent Rights (the "Assignment") which is hereby acknowledged, on this ^{7th} day of ^{April} ~~March~~ 2009, Robert Conrad Malkemes, residing in ~~Backtown, New Jersey~~ ^{Bethlehem, Pennsylvania}, and Robert Anthony Ziegler, residing in Red Bank, New Jersey ("Assignors"), to ensure that the assignment dated June 6, 1996, and filed with the United States Patent and Trademark Office on June 12, 1996, at Reel/Frame 008090/0373, is completed, hereby sell, assign, and transfer to Bell Communications Research, Inc., a Delaware company ("Assignee"), the full extent of all right, title, and interest in and to any and all of the following (collectively, the "Rights"):

1. U.S. Patent 5,708,681 (the "Patent");
2. Patent Application Serial No. 08/631,784 filed on April 23, 1996, which issued as the Patent (the "Application");
3. All inventions claimed or described in any or all of the Patent or the Application (collectively, the "Inventions");
4. All rights with respect to the Inventions, including all U.S. patents or other governmental grants or issuances that may be granted with respect to the Inventions or from any direct or indirect divisionals, continuations, or other patent applications claiming priority rights from the Patent or the Application ("Potential Patents");
5. All reissues, reexaminations, extensions, or registrations of the Patent or Potential Patents;
6. All non-United States patents, patent applications, and counter parts relating to any or all of the Inventions, the Application, the Patent, or Potential Patents, including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances ("Foreign Rights"), and including the right to file foreign applications directly in the name of Assignee, its successors and assigns;
7. The right to claim priority rights deriving from the Application;
8. All causes of action and remedies related to any or all of the Application, the Patent, the Inventions, Potential Patents, or Foreign Rights (including, without limitation, the right to sue for past, present, or future infringement, misappropriation or violation of rights related to any of the foregoing and the right to collect royalties and other payments under or on account of any of the foregoing); and
9. Any and all other rights and interests arising out of, in connection with, or in relation to the Application, the Patent, the Inventions, Potential Patents, or Foreign Rights.

Assignors will not sign any writing or do any act conflicting with this Assignment, and, without further compensation, will sign all documents and do such additional acts as Assignee, its successors, legal representatives, and assigns deem necessary or desirable to perfect enjoyment of the Rights or perfect or defend title to the Rights. Assignors request the respective patent office or governmental agency in each jurisdiction to issue any and all patents, certificates of invention, utility models, or other governmental grants or issuances that may be granted upon any of the Rights in the name of the Assignee, as the assignee to the entire interest therein.

The terms and conditions of this Assignment will inure to the benefit of Assignee, its successors, legal representatives, and assigns and will be binding upon Assignors, their successors, legal representatives and assigns.

By: Robert Conrad Malkemes
(Robert Conrad Malkemes, Signature *MUST* be attested)

ATTESTATION

ATTESTATION OF SIGNATURE PURSUANT TO 28 U.S.C. § 1746

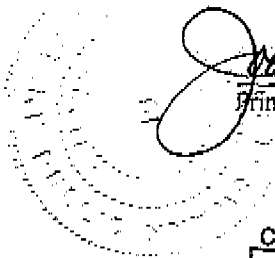
The undersigned witnessed the signature of Robert Conrad Malkemes to the above Confirmatory Assignment of Patent Rights:

1. I am over the age of 18 and competent to testify as to the facts in this Attestation block if called upon to do so.
2. Robert Conrad Malkemes is personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on April 9, 2009 to execute the above Confirmatory Assignment of Patent Rights.
3. Robert Conrad Malkemes subscribed to the above Confirmatory Assignment of Patent Rights.

I declare under penalty of perjury under the laws of the United States of America that the statements made in the three (3) numbered paragraphs immediately above are true and correct.

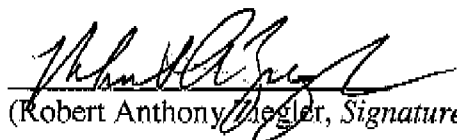
EXECUTED on April 9, 2009 (date)

Joanne Greet Swank
Print Name: JOANNE GREET SWANK



COMMONWEALTH OF PENNSYLVANIA
 Notarial Seal
 Joanne Greet-Swank, Notary Public
 Horsham Twp., Montgomery County
 My Commission Expires July 18, 2009
 Member, Pennsylvania Association of Notaries

By:


(Robert Anthony Ziegler, Signature *MUST* be attested)

ATTESTATION OF SIGNATURE PURSUANT TO 28 U.S.C. § 1746

The undersigned witnessed the signature of Robert Anthony Ziegler to the above Confirmatory Assignment of Patent Rights:

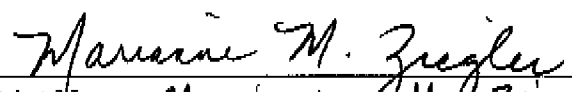
4. I am over the age of 18 and competent to testify as to the facts in this Attestation block if called upon to do so.

5. Robert Anthony Ziegler is personally known to me (or proved to me on the basis of satisfactory evidence) and appeared before me on Feb 17, 2009 to execute the above Confirmatory Assignment of Patent Rights.

6. Robert Anthony Ziegler subscribed to the above Confirmatory Assignment of Patent Rights.

I declare under penalty of perjury under the laws of the United States of America that the statements made in the three (3) numbered paragraphs immediately above are true and correct.

EXECUTED on Feb. 17, 2009 (date)


Print Name: Marianne M. Ziegler