

01-25-1999



COVER SHEET  
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U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

FORM PTO-1595

(Rev. 6-93)  
OMB No. 0651-0011 (Rev. 1/94)

100947471

1-21-99

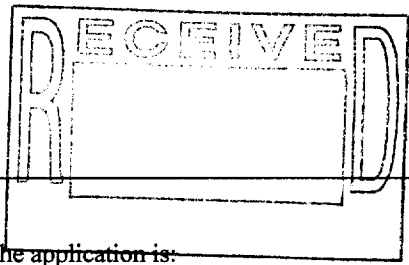
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

<p>1. Name of conveying part(ies):</p> <p>OKI TELECOM, a division of OKI AMERICA, INC.</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: Oki Telecom, Inc.</p> <p>Street Address: 437 Old Peachtree Road Suwanee, GA 30024</p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input type="checkbox"/> No</p>
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3. Nature of conveyance:

Assignment       Merger  
 Security Agreement       Change of Name  
 Other:

Execution Date: 7/23/98



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)      B. Patent No.(s)

5,603,113

Additional numbers attached?  Yes  No

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

**Jeffrey R. Kuester**  
Thomas, Kayden, Horstemeyer & Risley, L.L.P.  
100 Galleria Parkway, Suite 1500  
Atlanta, Georgia 30339

6. Total number of applications/patents involved: [ 1 ]

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

Enclosed  
 Authorized to be charged to deposit account

8. Deposit Account Number:

20-0778  
(Attach duplicate copy of this page if paying by Deposit Account)

DO NOT USE THIS SPACE

9. Statement and signature.  
*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.*

Jeffrey R. Kuester           1/17/99  
Typed Name      Signature      Date

Docket #: 191510-1041      Total number of pages including cover sheet, attachments, and document: [6]

01/22/1999 INQUIRY 00000003 5603113

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40.00 Nil documents to be recorded with required cover sheet information to:  
Assistant Commissioner for Patents, Box Assignments  
Washington, D.C. 20231

OKI ASSIGNMENT.doc

PATENT  
REEL: 9703 FRAME: 0554

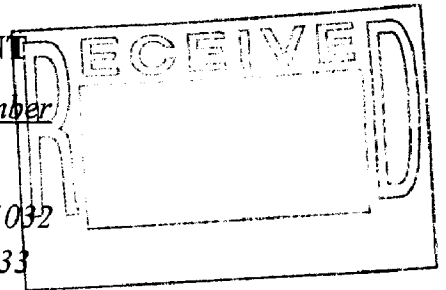
# PATENT ASSIGNMENT

WHEREAS, **OKI TELECOM**, a division of **OKI AMERICA, INC.**, a Corporation of the State of Delaware, having its principal place of business at 437 Old Peachtree Road, Suwanee, Georgia 30024, is the owner of interests in provisional applications for Letters of Patent, applications for Letters of Patent, and Letters of Patent, filed in the United States Patent and Trademark Office as dated and bearing the Serial Nos. as indicated below:

## APPLICATIONS FOR LETTERS OF PATENT

Serial Numbers; Filing Dates; Attorney Docket Number

- 08/442,883; May 17, 1995; 191510-1031
- 08/794,267; January 31, 1997; 191510-1032
- 09/040,556; March 18, 1998; 191510-1033
- 08/078,983; June 16, 1993; 191510-1040
- 07/611,712; November 13, 1990; 191510-1060
- 08/016,676; February 2, 1993; 191510-1061
- 08/974,585; November 19, 1997; 191510-1072
- 08/249,261; May 25, 1994; 191510-1120
- 08/474,409; June 7, 1995; 191510-1165
- 08/813,537; March 7, 1997; 191510-1166
- 08/336,842; November 9, 1994; 191510-1190
- 08/466,080; June 6, 1995; 191510-1191
- 08/796,346; February 7, 1997; 191510-1192
- 08/967,751; November 10, 1997; 191510-1201
- 08/571,511; December 13, 1995; 191510-1315
- 08/825,270; March 27, 1997; 191510-1316
- 08/788,170; January 24, 1997; 191510-1385
- 08/613,633; March 9, 1996; 191510-1395
- 07/579,894; September 10, 1990; 191510-1410



## PROVISIONAL APPLICATIONS FOR LETTERS OF PATENT

Serial Numbers; Filing Dates; Attorney Docket Number

- 60/003,625; 9/12/95; 191510-1310
- 60/010,594; 1/25/96; 191510-1380
- 60/012,428; 2/28/96; 191510-1390
- 60/012,480; 2/29/96; 191510-1400

## ISSUED PATENTS

Patent Numbers; Filed Date; Issued Date; Attorney Docket Number

- Des. 346,492; 11/3/92; 5/3/94; 191510-1010
- 5,442,806; 6/8/93; 8/15/95; 191510-1030
- 5,603,113; 2/9/95; 2/11/97; 191510-1041
- 5,722,068; 1/26/94; 2/24/98; 191510-1070
- 5,732,347; 6/5/95; 3/24/98; 191510-1071
- 5,354,212; 3/11/93; 10/11/94; 191510-1100
- 5,385,484; 5/23/94; 1/31/95; 191510-1101
- 5,649,288; 6/6/95; 7/15/97; 191510-1121
- 5,488,322; 6/10/94; 1/30/96; 191510-1130
- 5,602,513; 6/6/95; 2/11/97; 191510-1131
- 5,627,835; 4/4/95; 5/6/97; 191510-1140
- 5,726,982; 6/6/95; 3/10/98; 191510-1141
- 5,689,815; 5/4/95; 11/18/97; 191510-1200
- 5,276,729; 7/14/92; 1/4/94; 191510-1411
- 5,169,097; 11/27/90; 12/8/92; 191510-1420
- 5,169,105; 2/6/92; 12/8/92; 191510-1421

and

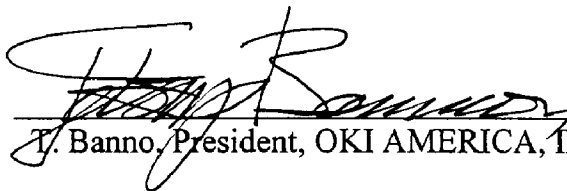
WHEREAS, **Oki Telecom, Inc.**, a Corporation of the State of Delaware, having its principal place of business at 437 Old Peachtree Road, Suwanee, Georgia 30024, is desirous of acquiring interests in the same;

NOW, THEREFORE, for and in consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, **OKI TELECOM, a division of OKI AMERICA, INC.**, by these presents do sell, assign and transfer unto **Oki Telecom, Inc.**, its full, exclusive and entire rights, titles and interests: (i) in and to all inventions and improvements disclosed and described in said Patents and applications, (ii) in and to said Patents and applications, (iii) in and to the right to claim any applicable foreign and domestic priority rights arising from such Patents and patent applications; and (iv) in and to any non-provisional patent applications filed in the United States describing in whole or in part the said inventions and improvements, preparatory to obtaining Patents of the United States therefore, and I hereby request the Commissioner of Patents to issue any and all Patents of the United States resulting from such non-provisional patent applications, or from a division, continuation, continuation-in-part, or reissue thereof, to **Oki Telecom, Inc.** as Assignees, for their interest and for the sole use and behoof of **Oki Telecom, Inc.** and their assigns and legal representatives;

For the same consideration, **OKI TELECOM, a division of OKI AMERICA, INC.**, by these presence do sell, assign and transfer to **Oki Telecom, Inc.** its full, exclusive, and entire rights, titles and interests in and to any foreign application or applications corresponding to said Patents and applications, in whole or in part, in countries other than the United States, in and to any Patents and similar protective rights granted on said foreign applications, and in and to the rights to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of **Oki Telecom, Inc.** or their respective designees, insofar as permitted by applicable law;

AND, for the same consideration, **OKI TELECOM, a division of OKI AMERICA, INC.** agrees to sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **Oki Telecom, Inc.**, their successors, assigns, and nominees, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.

7/23/98  
DATE

  
T. Banno, President, OKI AMERICA, INC.

STATE OF Georgia

COUNTY OF Gwinnett

Before me, a Notary Public in and for the State of Georgia, on this 23rd day of July, 1998, personally appeared T. Banno, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

  
NOTARY PUBLIC

My Commission Expires: Notary Public, Gwinnett County, Georgia  
My Commission Expires Jan. 9, 2002