

10-12-1999



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U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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10-7-99

To the Assistant Commissioner for Patents:
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Regis J. NERO, Jr., Louis W. HIENER III,
Richard A. BAIR, Jr., Frederick J. KIKO,
Leo W. MANUEL II and Lester MINTZER

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

3. Nature of conveyance:

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

Execution Date: May 22, 22, 22, 19, 26 and 22, 1998

2. Name and address of receiving party(ies)

Name: Tollgrade Communications, Inc.

Internal Address:

Street Address: 103 Springer Building

3411 Silverside Road

City: Wilmington

State: Delaware ZIP: 19810

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

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)

PCT/US98/07613, filed April 17, 1998

B. Patent No. (s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Richard L. Byrne

Internal Address: Webb Ziesenheim Logsdon

Orkin & Hanson, P.C.

Street Address: 700 Koppers Building

436 Seventh Avenue

City: Pittsburgh State: PA ZIP: 15219-1818

6. Total number of applications 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:

(Attach triplicate 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.

Richard L. Byrne, Reg. No. 28,498
Name of Person Signing

Signature

October 4, 1999
Date

Total number of pages including cover sheet, attachments and document

8

Mail documents to be recorded with required cover sheet information to:
Assistant Commissioner for Patents, U.S. Patent and Trademark Office
Office of Public Records, Crystal Gateway 4, Room 335
Washington, D.C. 20231

10/08/1999 DMSUYEN 00000307 US9807613

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PATENT
REEL: 010287 FRAME: 0900

ASSIGNMENT

WHEREAS, WE, REGIS J. NERO, JR., LOUIS W. HIENER III, RICHARD A. BAIR, JR., FREDERICK J. KIKO, LEO W. MANUEL II and LESTER MINTZER, residing in Export, Pennsylvania; Plum Borough, Pennsylvania; Brackenridge, Pennsylvania; Carlsbad, California; San Diego, California; and Santa Ana, California, respectively, have invented certain new and useful improvements in TELEPHONY TEST SYSTEM WITH ADJUSTABLE OUTPUT IMPEDANCE.

AND, WHEREAS, TOLLGRADE COMMUNICATIONS, INC., a corporation of Delaware, having a place of business at 103 Springer Building, 3411 Silverside Road, Wilmington, Delaware 19810, hereinafter called the "assignee", is desirous of acquiring the entire right, title, and interest in and to said application and the inventions and improvements therein disclosed and claimed.

NOW, THEREFORE, for good and valuable consideration paid to us by said assignee, the receipt of which is hereby acknowledged, we do hereby assign, sell, transfer, and set over unto said assignee the entire right, title and interest, including all rights to claim priority in and to any and all improvements which are disclosed in the invention entitled: "TELEPHONY TEST SYSTEM WITH ADJUSTABLE OUTPUT IMPEDANCE", and which is found in PCT application serial no. PCT/US98/07613 filed on April 17, 1998 and any legal equivalent thereof in a foreign country, including the right to claim priority, and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this assignment not been made.

To comply with 37 C.F.R. § 3.21 for recordal of this assignment, we hereby authorize and request our attorney to insert above the application serial number when it becomes known.

The Assistant Commissioner for Patents is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, inventions, and improvements, that the same are unencumbered, that no license has been granted to make, use, or vend the said inventions or improvements or any of them, and that we have the full right to make this assignment.

And for the consideration aforesaid, we agree jointly and individually that we will communicate to said assignee or the representatives thereof any facts known to us respecting said inventions and improvements, and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation,

continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

EXECUTED May 22, 1998, 1998

Regis J. Nero, Jr. 5-22-98
Regis J. Nero, Jr.

COMMONWEALTH OF PENNSYLVANIA

:
: ss:

COUNTY OF ALLEGHENY

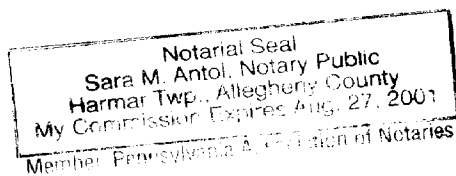
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Before me, a Notary Public in and for the said County and Commonwealth, personally appeared Regis J. Nero, Jr., who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this 22nd day of May, 1998.

[NOTARIAL SEAL]

Sara M. Antol
Notary Public



EXECUTED 22/5/98, 1998

Louis W. Hiener III
Louis W. Hiener III

COMMONWEALTH OF PENNSYLVANIA

:
: ss:
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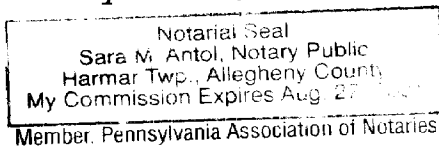
COUNTY OF ALLEGHENY

Before me, a Notary Public in and for the said County and Commonwealth, personally appeared Louis W. Hiener III who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this 22nd day of May, 1998.

[NOTARIAL SEAL]

Sara M. Antol
Notary Public



EXECUTED May 22, 1998

Richard A. Bair, Jr.
Richard A. Bair, Jr.

COMMONWEALTH OF PENNSYLVANIA

:

ss:

COUNTY OF ALLEGHENY

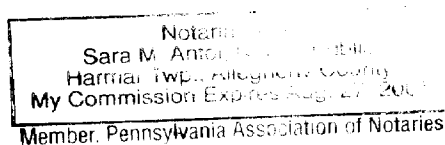
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Before me, a Notary Public in and for the said County and Commonwealth, personally appeared Richard A. Bair, Jr., who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

May Witness my hand and notarial seal this 22nd day of May, 1998.

[NOTARIAL SEAL]

Sara M. Anton
Notary Public



EXECUTED MAY 19, 1998 Frederick J. Kiko
Frederick J. Kiko

STATE OF CALIFORNIA :
COUNTY OF SAN DIEGO : SS:
:

Before me, a Notary Public in and for the said County and State, personally appeared Frederick J. Kiko who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this 19th day of May, 1998.

[NOTARIAL SEAL] Christi Brugger
Notary Public



EXECUTED San Diego California, 1998

Leo W. Manuel II
Leo W. Manuel II

STATE OF CALIFORNIA

COUNTY OF San Diego

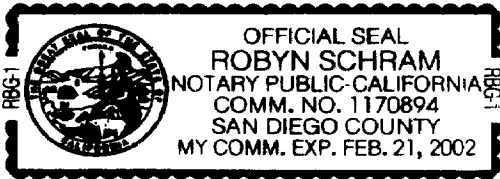
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: ss:
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Before me, a Notary Public in and for the said County and State, personally appeared Leo W. Manuel II who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal this 20th day of May, 1998.

[NOTARIAL SEAL]

Robyn Schram
Notary Public



EXECUTED

May 22,

1998

Lester Mintzer
Lester Mintzer

STATE OF CALIFORNIA

COUNTY OF ORANGE

:
:
: ss:
:

Before me, a Notary Public in and for the said County and State, personally appeared Lester Mintzer who acknowledged that he is the person who executed the foregoing assignment and acknowledged it to be his free and voluntary act and deed.

Witness my hand and notarial seal, this 22nd day of MAY, 1998.

[NOTARIAL SEAL]

JILA SANJABI
Notary Public

