

09-21-1999

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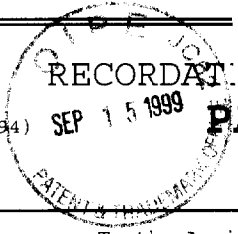


FORM PTO-1595

(Rev. 6-93)

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

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PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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

1. Name of conveying party(ies):

Gary M. Miller

9.15.99

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

3. Nature of conveyance:

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

Execution Date: August 31, 1999

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: DE 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/US99/12973 filed 09 June 1999

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

Name of Person Signing

Registration No. 28,498

Signature

September 13, 1999

Date

Total number of pages including cover sheet, attachments and document 3

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, DC 20231

09/20/1999 NTHAI1 00000211 US9912973

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40.00 DP

PATENT
REEL: 010237 FRAME: 0293

ASSIGNMENT

WHEREAS, I, Gary M. MILLER, residing in Leesburg, Loudoun County, Commonwealth of Virginia, have invented certain new and useful improvements in "TELEPHONY LINE TEST UNIT AND METHOD" for which an international patent application was filed under the Patent Cooperation Treaty (the PCT Application) on 09 June 1999 bearing Application No. PCT/US99/12973;

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 PCT application and the inventions and improvements therein disclosed and claimed.

NOW, THEREFORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged, I do hereby assign, sell, transfer, and set over unto said assignee the entire right, title and interest in and to said PCT application and the inventions and improvements therein disclosed and claimed for all countries designated therein and any Letters Patent which may issue therefor in each of said designated countries 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 me had this assignment not been made.

I covenant that I am the lawful owner of said PCT application, said inventions, and said improvements, that the same are unencumbered, and that I have the full right to make this assignment.

And for the consideration aforesaid, I agree that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request, but without expense to me, 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 declarations and 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 my 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 Aug 31, 1999.

Gary M. Miller
Gary M. MILLER

COMMONWEALTH OF VIRGINIA :
: SS:
COUNTY OF LOUDOUN :

Before me, a Notary Public in and for the said County and Commonwealth personally appeared Gary M. Miller, 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 31st day of August, 1999.

[NOTARIAL SEAL]

Sara M. Antol
Notary Public

Notarial Seal
Sara M. Antol, Notary Public
Harmar Twp., Allegheny County
My Commission Expires Aug. 27, 2001
Member, Pennsylvania Association of Notaries