

| | | | = 1000 | DEPARTMENT OF COMMERCE | |
|---|--|---|--|-----------------------------|--|
| FORM PTO-1886 (Rev. 8-93) OMB No. 0851-9011 (exp. 4/94) | | RECORDATION F | 07-07-1999 | Patent and Trademark Office | |
| | | PATEN | | -132 | |
| | To the Honorable C | Commission of Patents and Trademarks: I | 101084441 | ts or copy thereof. | |
| 1. | Name of conveying | party(les): | A. Name and address of receiving | g party(ies) | |
| | Tele-Communication | 4.6.97 | Name: TCI-TVGQS, Inc. Internal Address: | | |
| A | Additional name(s) of conveying party(ies) attached? ☐ Yes ■ No | | Street Address: 5619-DTC- | Parkway | |
| 3. | Nature of conveyance | .8: | Ollock Madioon. | a we | |
| | ☐ Assignment | ☐ Merger | | | |
| | ☐ Security Agreemen | nt Change of Name | City: Englewood State: Colo | rado ZIP: 80111 | |
| | Other Confirmato | ory Assignment | Additional name(s) & address(es) | \ attanhad2 □ Väs ÆNo | |
| Exec | cution Date:June 1 | 7, 1999 | Wiffithhigh Hamafol at againment on | distribute to the mine | |
| 4. | Application number(s | s) or patent number(s): | | 2 | |
| | If this document is being filed together with a new application, the execution date of the application is: | | | | |
| | ••••• | | 1 | | |
| | A. Patent Applica | tion No.(s) | B. Patent No.(s) | | |
| | | | 5,629,733 | | |
| Additional numbers attached? Yes No | | | | | |
| 5. | Name and address o concerning documen | of party to whom correspondence at should be mailed: | 6. Total number of applications and patents involved: | | |
| | Name: G. Victor Trev | YZ | 7. Total fee (37 CFR 3.41) | \$ 40.00 | |
| | · | | ■ Enclosed □ Authorized to be charged to deposit account | | |
| | Illurius raai | | | • • | |
| | | | Charge excess/credit overpayment | to deposit account | |
| | Street Address: | Sinh & Negue | 8. Deposit account number: | | |
| | | | 08-1075 | | |
| | 1251 Avenue of the A | | (Attach duplicate copy of this page if pa | ying by deposit account) | |
| | City: New YORK | State: NY ZIP: 10020-1104 | | | |
| DO NOT USE THIS SPACE | | | | | |
| y . | 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. | | | | |
| OMERITARIO CHILA TALA | | | | | |
| G. Victor Trevz Name of Person Signing Signature Dista | | | | | |
| Reg. No. 36,294 Total number of pages including cover sheet, attachments, and document: | | | | | |

Mail documents to be recorded with required cover sheet information to: 97/97/1999 2009/055 5629728 Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

01 FC:501

46.00 P

PATENT

REEL: 010061 FRAME: 0493



CONFIRMATORY ASSIGNMENT

WHEREAS, TCI-TVGOS, INC., a corporation organized and existing under the laws of Colorado and having an office and place of business at 5619 DTC Parkway, Englewood, Colorado 80111, obtained by assignment from Tele-Communications of Colorado, Inc., a corporation organized and existing under the laws of Colorado and having a place of business at 5619 DTC Parkway, Englewood, Colorado, 80111, all of the right, title, and interest of said Tele-Communications of Colorado, Inc. in and to United States patent application Serial No. 08/346,603, filed November 29, 1994, now United States patent No. 5,629,733, and the inventions disclosed therein, said assignment being dated June 1, 1998; and

WHEREAS, said Tele-Communications of Colorado, Inc. is desirous of confirming the transfer of the right, title, and interest of said Tele-Communications of Colorado, Inc. in and to said United States patent application Serial No. 08/346,603, filed November 29, 1994, now United States patent No. 5,629,733, and said inventions to said TCI-TVGOS, INC., its successors, assigns and legal representatives;

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Tele-Communications of Colorado, Inc. does hereby sell, assign and transfer unto said TCI-TVGOS, INC., its successors, assigns and legal representatives, nunc protunc as of June 1, 1998, all right, title and interest

PATENT REEL: 010061 FRAME: 0494



in and to said inventions and any improvements thereon for all countries of the world, and in and to said United States patent application Serial No. 08/346,603, filed November 29, 1994, now United States patent No. 5,629,733, including any continuations and divisions thereof, and any substitute applications therefor, and including the right to claim priority under the International Convention based on said patent application, and any patent which has issued or may issue thereon, and any reissues of the same; and all right, title and interest in and to every patent application filed or to be filed on said inventions in any other country, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any and all patents which may issue thereon, and any reissues and extensions of the same; and Tele-Communications of Colorado, Inc. hereby authorizes and requests competent authorities to grant and issue any and all patents on said inventions to said TCI-TVGOS, INC., its successors, assigns, and legal representatives, as the assignee of the entire interest therein; and Tele-Communications of Colorado, Inc. further agrees to execute upon request of said TCI-TVGOS, INC., its successors, assigns, and legal representatives, such additional documents, if any, as are necessary and proper to secure patent protection on said inventions throughout all countries of the world, and to otherwise give full effect to and perfect the rights of the assignee under this Assignment.

> PATENT REEL: 010061 FRAME: 0495



IN TESTIMONY WHEREOF, the undersigned has signed his name and affixed his seal on the date indicated hereinafter.

Tele-Communications of Colorado, Inc.

Ву:

Name: Stephen M. Brett

Title: Vice President

STATE OF COCORADO)

COUNTY OF DOUGLAS)

On this 17 th day of Jane, 1999, appeared before me in person the above-named Stephen M. Brett and acknowledged the above to be his signature and that he signed, sealed and delivered the above instrument as his voluntary act and deed, and for the uses and purposes therein set forth.

Notary Public (Calo

(Notarial seal)

My Commission expires:

2/25/03

RECORDED: 07/06/1999

PATENT REEL: 010061 FRAME: 0496