FORM PTO-1595 1-31-92

101567953

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

| To the Honorable Assistant Commissioner for Patents and Trademark   | s. Please record the attached original documents or copy thereof.   |  |  |  |  |
|---|---|--|--|--|--|
| 1. Name of conveying party(ies):  | Name and address of receiving party(ies):     Name: THE UNIVERSITY OF UTAH                                |  |  |  |  |
| Carl T. WITTWER and Mark G HERRMAN 2 1 2000   | Internal Address:   |  |  |  |  |
| Additional name(s) of conveying party(ies) attached?  | Internal Address.   |  |  |  |  |
| 3. Nature of Conveyance:  [/] Assignment [ ] Merger  [ ] Security Agreement [ ] Change of Name  [ ] Other   | Street Address: 615 Arapeen Drive - Suite 110 City: Salt Lake City State: Utah Zip: 84108 Country: U.S.A. |  |  |  |  |
| Execution Date: 28 November 2000  | 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 ex-  | ecution date of the application is:   |  |  |  |  |
| A. Patent Application No.(s)  | B. Patent No.(s)  |  |  |  |  |
| 09/651.374  |   |  |  |  |  |
| Additional numbers attached? [] Yes [/] No  |   |  |  |  |  |
| 5. Name and address of party to whom correspondence<br>concerning document should be mailed:  | 6. Total number of applications and patents involved:   |  |  |  |  |
| Name: James J. DIEHL Internal Address: FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP   | 7. Total fee (37 CFR § 3.41):\$ 40.00  [ ] Enclosed [ ] Authorized to be charged to deposit account       |  |  |  |  |
| Street Address: <u>Four Embarcadero Center - Suite 3400</u>   | 8. Deposit account number: 06-1300  |  |  |  |  |
| City: San Francisco   | Please debit any underpayment or credit any overpayment to the above deposit account.                     |  |  |  |  |
| State: <u>California</u> Zip: <u>-94109-2418</u>  | Our Order No. A-68197/RFT/JJD  (Attach duplicate 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.  James J. DIEHL  James J. DIEHL  Name of Person Signing  Total number of pages including cover sheet. attachments and document: [ 4 ] |   |  |  |  |  |
| OMB No. 0651-0011 (exp. 4/94)   |   |  |  |  |  |
| Do not detach this portion  |   |  |  |  |  |
| Mail documents to be recorded with required cover sheet information to:   |   |  |  |  |  |
| Honorable Commissioner of Patents and Trademarks<br>Box Assignments<br>Washington, DC 20231   |   |  |  |  |  |
| File NoA-68197/RFT/JJD  | Rev. 8/93 (39811)<br>SF-1038317v1   |  |  |  |  |

12/29/2000 AAHMED1 00000238 09651374 01 FC:581 40.00 DA

> PATENT REEL: 011371 FRAME: 0308

## **ASSIGNMENT**

|  | WHEREAS, the undersigned,   |  |  |  |
|--|---|--|--|--|
| (1)  | Carl T. WITTWER ,   | (2)  | Mark G. HERRMANN ,                                 |  |
| (here  | einafter termed "Inventors"), residents of  |  |  |  |
| (1)  | Salt Lake City ,  | (2)  | Salt Lake City ,                                   |  |
| resp   | ectively, Counties of   |  |  |  |
| (1)  | Salt Lake ,   | (2)  | Salt Lake ,  |  |
| respe  | ectively, States of   |  |  |  |
| (1)  | Utah ,  | (2)  | Utah ,   |  |
| respe  | ectively, have invented certain new and usefu HOMOGENEOUS MULTIPLEX HYBRIDI   | •  |  |  |
|  | (Accompanying application)  |  |  |  |
|  | and have executed concurrently herewith an application for a United States patent disclosing and identifying the invention; |  |  |  |
|  | (Not accompanying application)  |  |  |  |
| $\boxtimes$  | for which an application for a United States Patent was filed on 30 August 2000, having Application Number 09/651,374.      |  |  |  |
| and  | 11aving, application 1 turnser  | <u>.                                    </u> |  |  |
|  | WHEREAS,  |  |  |  |
|  | The University of Utah , a co   | rporati                                      | on of the State of <u>Utah</u> ,                   |  |
| havin  | g a place of business at 615 Arapeen [  | Orive,                                       | Suite 110, Salt Lake City, Utah 84108              |  |
| (here  | einafter termed "Assignee"), is desirous of acqu  | uiring t                                     | he entire right, title and interest in and to said |  |
| application and the invention disclosed therein, and in and to all embodiments of the invention,           |   |  |  |  |
| heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively          |   |  |  |  |
| hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other |   |  |  |  |
| forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign        |   |  |  |  |
| countries.   |   |  |  |  |

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

I. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

File No. A-68197/RFT/JJD 05/95 (JOINT TO CORPORATE)

PATENT PA

- 2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.
- 3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

[continued on next page]

| T. Said inventors hereby jointly and severally warr   | rant and represent that they have not                                    |  |
|---|--|--|
| entered and will not enter into any assignment, contract, or und  | lerstanding in conflict herewith.  |  |
| IN WITNESS WHEREOF, the said Inventors have execute   | ed and delivered this instrument to said                                 |  |
| Assignee this   |  |  |
| (1) 28th day of November  | _, 20 <u>00</u> ,  |  |
| (1) 28th day of November (2) 28th day of November   |  |  |
| respectively.   | <u> </u>   |  |
|   |  |  |
|   |  |  |
| Signature of Inventor (I)   |  |  |
| a Calt lake   | Carl T. WITTWER  |  |
| County of Salt Lake   |  |  |
| State of Utalk ss.  |  |  |
| On this With day of November  | , in the year <u>(),()()</u> , before me,                                |  |
| , a Notary Put<br>, personally appeared (I), a Notary Put   | plic of the State of UVIN  |  |
| , personally appeared (I)   | Wee , personally known   |  |
| to me (or proved to me on the basis of satisfactory evidence<br>subscribed to the within instrument, and acknowledged that  |  |  |
| authorized capacity(ies), and that by his/her signature on the inst   | trument the person, or the entity upon                                   |  |
| behalf of which the person acted, executed the instrument.  |  |  |
| WITNESS my hand and official seal.  | NOTARY PUBLIC PATRICIA A. WEBB   |  |
| D+  | 185 W. Cottage Ave<br>Sandy, UT 84070<br>My Commission Expires           |  |
| Signature Mallon 70   | Eebruary 21st, 2001  L. STATE OF UTAH                                    |  |
|   |  |  |
| •   |  |  |
|   |  |  |
|   |  |  |
| Signature of Inventor (2)   | gh.  |  |
|   | Mark G. HERRMANN   |  |
| County of Solt Lake ss.   |  |  |
| State of UTIV.  |  |  |
| On this 29th day of New York  | _, in the year <u>0000</u> , before me, plic of the State of <u>Univ</u> |  |
| personally appeared (2) WYKK (1. Help)  |  |  |
| to me (or proved to me on the basis of satisfactory evidence  | e) to be the person whose name is  |  |
| subscribed to the within instrument, and acknowledged that he/she executed the same in his/her  |  |  |
| authorized capacity(ies), and that by his/her signature on the inst   | rument the person, or the entity upon                                    |  |
| behalf of which the person acted, executed the instrument.  WITNESS my hand and official seal.  |  |  |
| Title 100 my hand and official seal.  | NOTARY PUBLIC  |  |
| $\bigcirc \bigcirc $ | PATRICIA A. WEBB 185 W. Cottage Ave                                      |  |
| Signature Atmus X Del   | Sandy, UT 84070 My Commission Expires February 21st, 2001                |  |
|   | STATE OF UTAH  |  |
| •   |  |  |

File No. A-68197/RFT/JJD 05/95 (JOINT TO CORPORATE)

**RECORDED: 12/21/2000** 

Page 3 of 3

PATEN 9 - 1034734v1

**REEL: 011371 FRAME: 0311**