FORM P 1-31-92 10-10-2002

102245990

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Attorney Docket No. 100110496-1

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| Elias Gedamu 10 - 7 - 3 3  | P.O. Box 272400 Fort Collins, Colorado 80527-2400  |  |
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| Execution Date(s): Respectively;05-23-2002,05-23-2002,05-23-2002                                       |  |  |
| 4. Application number(s) or patent number(s):  |  |  |
| If this document is being filed together with a new application, execution date of the application is: |  |  |
| A. Patent Application No.(s)   | B. Patent No.(s)   |  |
| Application No.: 10/157,496 Date File  | ed: 05-30-2002   |  |
| Confirmation No.: 7825 Additional numbers attached? NO   |  |  |
| 5. Name and address of party to whom correspond concerning document should be mailed:                  | dence 6. Total number of applications and patents involved: 1  |  |
| Records Manager  | 7. Total Fee (37 CFR 3.41): \$40.00  |  |
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PATENT REEL: 013359 FRAME: 0402

PATENT APPLICATION
ATTORNEY DOCKET NO. 100110496-1

## **ASSIGNMENT OF PATENT APPLICATION**

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD COMPANY, a Delaware corporation having its principal place of business in Palo Alto, California, (hereinafter HP), in furtherance of my/our obligations to HP, and do hereby assign and transfer to HP, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Letters Patent of the United States entitled:

| its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application for Letters Patent of the United States entitled:   |  |
|--|--|
| DATA BUS WITH SEPARATE MATCHED LINE IMPEDANCES AND METHOD OF MATCHING LIN  |  |
| IMPEDANCES   |  |
| Filing date: 05-30-2002 Application No.: 10/157,496  |  |
| and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-i-P's), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor; and any reissues, or reexaminations, or extensions of said Letters Patent.  |  |
| I/we additionally authorize HP to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HP, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this assignment, and transfer not been made;   |  |
| AND I/we hereby covenant that I/we have full right to convey the entire interest herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith, and I/we further covenant and agree that I/we will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said invention(s) or improvement(s), said application and said Letters Patent, to HP, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HP, or to its nominee, all known facts respecting said invention(s) or improvement(s), said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisionals, continuations, C-I-P's, reissue and foreign applications, to make all rightful oaths and declarations, and generally to do everything possible to aid HP, its successors, assigns, nominees and legal representatives to obtain and enforce, for its or their own benefit, proper patent protection for said invention(s) or improvement(s) in any and all countries provided the expenses which may be incurred by me/us in lending such cooperation and assistance are paid by HP; |  |
| AND I/we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to HP, as assignee of the entire right, title and interest, any and all Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted or or as a result of the application aforesaid, in accordance with the terms of this assignment.  |  |
| I/we further authorize and direct HP attorneys to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademark Office.   |  |
| IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):  |  |
| Date Assignment Signed: 5/23/02  |  |
| Inventor's Signature (Seal)  |  |
| Inventor's Typed Name: David MARSHALL Date Application Signed: 5/25/62   |  |
| State of ) ss.:  |  |
| County of  |  |
| Before me this day of, personally appeared David MARSHALL who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.  |  |

Notary Public
My commission expires:

When recorded please return to:

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P. O. Box 272400
Fort Collins, Colorado 80527-2400

## PATENT APPLICATION ATTORNEY DOCKET NO. 100110496-1

## **ASSIGNMENT OF PATENT APPLICATION (cont.)**

| V-13-3  | Date Assignment Signed: May 23, 2007   |
|---|--|
| ventor's Signature (Seal)   |  |
| ventor's Typed Name: Karl J. ชดเร   | Date Application Signed: 05-23-2002  |
| ate of  | )  |
| unty of   | ) ss.:<br>}  |
| Refore me this day of   | , personally appeared Karl J. BOIS who   |
| personally known or proved to me on<br>trument of assignment to be his/her fre                          | the basis of satisfactory evidence to be the person who acknowledged the foregoing |
|   | Notary Public  |
|   | My commission expires:   |
| 1   |  |
| 2   | Date Assignment Signed: May 23,1002  |
| entor's Signature (Seal)  |  |
| entor's Typed Name: Elias GEDAMU  | Date Application Signed: 05-23-2002  |
| ite of  | )  |
| unty of   | ) ss.:<br>)  |
| Before me this day of   | , personally appeared <u>Elias GEDAMU</u> who                                      |
| personally known or proved to me on<br>trument of assignment to be his/her fre                          | the basis of satisfactory evidence to be the person who acknowledged the foregoing |
|   | Notary Public  |
|   | My commission expires:   |
|   |  |
|   |  |
|   | Date Assignment Signed:  |
| entor's Signature (Seal)  |  |
| entor's Typed Name:   | Date Application Signed:   |
| te of   | )  |
| unty of   | ) ss.:<br>}  |
|   | , personally appeared who  |
| Before me this day of   |  |
| personally known or proved to me on   | the basis of satisfactory evidence to be the person who acknowledged the foregoing |
| Before me this day of<br>personally known or proved to me on<br>trument of assignment to be his/her fre | the basis of satisfactory evidence to be the person who acknowledged the foregoing |

(Use Page Three For Additional Inventor(s) Signature(s))

Page 2 of 2

PATENT REEL: 013359 FRAME: 0404

**RECORDED: 10/07/2002**