Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT | |
|-----------------------|---|--|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the name of the Assignee previously recorded on Reel 019669 Frame 0486. Assignor(s) hereby confirms the Assignment of Assignor's interest. | |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| Robert J. Blakely | 05/08/2007 |
| Samuel M. Babb | 05/08/2007 |
| Robert B. Smith | 07/16/2007 |
| Bradley D. Winick | 05/03/2007 |

RECEIVING PARTY DATA

| Name: | Hewlett-Packard Development Company, L.P. |
|-----------------|---|
| Street Address: | 20555 SH 249 |
| City: | Houston |
| State/Country: | TEXAS |
| Postal Code: | 77070 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 11742440 |

CORRESPONDENCE DATA

Fax Number: (970)898-7247

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: marci.santillanes@hp.com Correspondent Name: Hewlett-Packard Company

Address Line 1: P.O. Box 272400

Fort Collins, COLORADO 80527 Address Line 4:

ATTORNEY DOCKET NUMBER: 200601665-1

NAME OF SUBMITTER: Kalyn Black

Total Attachments: 12

500513993

REEL: 020802 FRAME: 0927

PATENT

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PATENT

REEL: 020802 FRAME: 0928

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1 08/08/2007 500330994

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------|----------------|
| Robert J. Blakely | 05/08/2007 |
| Samuel M. Babb | 05/08/2007 |
| Robert B. Smith | 07/16/2007 |
| Bradley D. Winick | 05/03/2007 |

RECEIVING PARTY DATA

| Name: | Hewlett-Packard Company |
|-----------------|-------------------------|
| Street Address: | P.O. Box 272400 |
| City: | Fort Collins |
| State/Country: | COLORADO |
| Postal Code: | 80527 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 11742440 |

CORRESPONDENCE DATA

Fax Number: (303)298-9888

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: kalyn.black@klaaslaw.com
Correspondent Name: Hewlett-Packard Company

Address Line 1: P.O. Box 272400

Address Line 4: Fort Collins, COLORADO 80202

ATTORNEY DOCKET NUMBER: 200601665-1

NAME OF SUBMITTER: Kalyn Black

Total Attachments: 6

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> PATENT REEL: 020802 FRAME: 0929

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PATENT

REEL: 020802 FRAME: 0930

PATENT APPLICATION

ATTORNEY DOCKET NO. _____200601665-1

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), in furtherance of my/our obligations to the Hewlett-Packard Company and its subsidiaries and affiliates, and do hereby assign and transfer to HPDC, 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: | | | |
|---|--|--|--------------------------|
| ELECTRONIC DEVICE | | | |
| | | | |
| Filing Date: April 30, 2007 | Applicat | tion No.: 11/742,440 | |
| and the invention(s) and improvement(s) set P's), divisionals, and renewals of and substitute Patent of the United States and of countries reissues, or reexaminations, or extensions of I/we additionally authorize HPDC to held and enjoyed by HPDC, its successors, at terms for which said Letters Patent respective same would have been held and enjoyed by many of the AND I/we hereby covenant that I/we we have not executed and will not execute an that I/we will, each time a request is made, an necessary or desirable to perfect the title to Patent, to HPDC, its successors, assigns, n HPDC, or to its nominee, all known facts restetters Patent, to testify in any legal proceeding continuations, C-I-P's, reissue and foreign ap do everything possible to aid HPDC, its succenforce, for its or their own benefit, proper produntries provided the expenses which may paid by HPDC; AND I/we hereby authorize and requand any official of any country or countries applications as aforesaid, to issue to HPDC, | forth therein, and any autes for said application foreign thereto which is said Letters Patent. If the applications in my/or ssigns, nominees or legically may be granted, reime/us had this assignme have full right to convert agreement in conflict and without undue delay, said invention(s) or impominees or legal representations, to sign all lawful papplications, to make all riccessors, assigns, nominatent protection for said be incurred by me/us in the Commissioner of the content of the United as assignee of the entitled. | and all continuations, continuations-in-part (C-I for said Letters Patent, and any and all Letter may be granted thereon or therefore; and any ur name for Letters Patent in any country, to be gal representatives, to the full end of the term of issued or extended, as fully and entirely as the | sy ere /eesod, od::e sos |
| be issued and granted on or as a result of the l/we further authorize and direct the | application aforesaid, in attorneys of record to | n accordance with the terms of this assignment, insert the serial number and filing date of saidet forth above as soon as the same shall have | ŀ |
| been made known to them by the United State | | | • |
| IN WITNESS WHEREOF, I/we hereunto | set my/our hand(s) and s | seal(s): | |
| Met De Bloke | | May & 2007 | |
| Inventor's Signature (Seal) | JAR-KHIL | May 8, 2007 Daté Assignment Signed | |
| Dahari I Blakeli | | | |
| Robert J. Blakely Inventor's Typed Name | | Date Application Signed | |
| | | | |
| State of |) | | |
| Country of |) ss.: | | |
| County of |) | | |
| | ly appeared | Robert J. Blakely who is personally son who acknowledged the foregoing instrument of | • |
| assignment to be his/her free act and deed. | ., stidened to be the per | 25 additioniougou the fologoing manufilling to | • |
| | | Notary Public | - |
| Rev 10/06a (Assignment) | Page 1 of 2 | My Commission Expires: | |
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PATENT APPLICATION

ATTORNEY DOCKET NO. 200601665-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

| Soul M. | F, I/we hereunto set my/our hand(s | | 1007 |
|--------------------------------------|--|---|---|
| Inventor's Signature (Seal) | | Date Assignment Signed | |
| Samuel M. Babb | | | |
| Inventor's Typed Name | | Date Application Signed | |
| State of |)) ss.: | | |
| County of |) | | |
| Before me this day of | , personally appeared | Samuel M. Babb | who is personally |
| assignment to be his/her free act | asis of satisfactory evidence to be the model of the same of the s | ne person who acknowledged the | toregoing instrument of |
| Ç | | Notary Public My Commission Expires: | |
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| Inventor's Signature (Seal) | | Date Assignment Signed | |
| Bradley Winick | | | |
| Inventor's Typed Name | | Date Application Signed | |
| State of |)) ss.: | | |
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| | , personally appeared asis of satisfactory evidence to be the deed. | Bradley Winick ne person who acknowledged the | who is personally foregoing instrument of |
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| | | My Commission Expires: | |
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| Inventor's Signature (Seal) | | Date Assignment Signed | |
| Robert B. Smith | | | |
| Inventor's Typed Name | | Date Application Signed | |
| State of |)) ss.: | | |
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| Rev 10/06a (Assignment) | Page 2 of 2 | · | |

PATENT APPLICATION

ATTORNEY DOCKET NO. ______200601665-1

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), in furtherance of my/our obligations to the Hewlett-Packard Company and its subsidiaries and affiliates, and do hereby assign and transfer to HPDC, 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: ELECTRONIC DEVICE | | | |
|--|---|---|--|
| LLLC INOMIC DLVICE | | | |
| Filing Date: April 30, 200 | 17 | Application No.: $11/742,440$ | |
| and the invention(s) and improvements), divisionals, and renewals of an Patent of the United States and of reissues, or reexaminations, or extended and enjoyed by HPDC, its successors and the same would have been held and enamed an | ent(s) set forth therein, and substitutes for said at countries foreign there in sions of said Letters F HPDC to file application cessors, assigns, noming respectively may be good by me/us had this to that I/we have full right execute any agreement amade, and without under title to said invention assigns, nominees or lessing to the facts respecting said proceedings, to sign a foreign applications, to C, its successors, ass proper patent protections. | and any and all continuations, continuations, continuation for said Letters Patent, and eto which may be granted thereon or | d any and all Letters therefore; and any and all Letters therefore; and any any country, to be all end of the term or and entirely as the ade; assigned, and that I/covenant and agree in papers as may be on and said Letters to communicate to application and said ners and divisionals, ans, and generally to tives to obtain and ent(s) in any and all |
| and any official of any country or applications as aforesaid, to issue Patent for said invention(s) or improbe issued and granted on or as a result/we further authorize and | countries foreign to to to HPDC, as assignee evement(s), including a sult of the application at direct the attorneys of corney docket number a nited States Patent and | | o issue patents on any and all Letters d States which may of this assignment. d filing date of said |
| Inventor's Signature (Seal) | 11100 Annuar connectionals | Date Assignment Signed | |
| Debort I Biokolu | | | |
| Robert J. Blakely Inventor's Typed Name | | Date Application Signed | |
| State of |)) ss.: | | |
| County of |) | | |
| Before me this day of known or proved to me on the basis of assignment to be his/her free act and dec | - | Robert J. Blakely be the person who acknowledged the fo | who is personally regoing instrument of |
| | | Notary Public | LABOUR AND COMMISSION OF THE PARTY OF THE PA |
| Rev 10/06a (Assignment) | Page 1 | My Commission Expires: | |

PATENT APPLICATION

ATTORNEY DOCKET NO. ______200601665-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

| Inventor's Signature (Seal) | | Date Assignment Signed | |
|--|--|--|---|
| Samuel M. Babb | | | |
| Inventor's Typed Name | | Date Application Signed | |
| State of |) | | |
| County of |) ss.:) | | |
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| | , personally appeared asis of satisfactory evidence to be t nd deed. | Samuel M. Babb he person who acknowledged the | who is personally foregoing instrument of |
| | | Notary Public My Commission Expires | : |
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| nventor's Signature (Seal) | Mail Alle no come to Commo 440° | Date Assignment Signed | |
| Bradley D. Winick | | | |
| nventor's Typed Name | | Date Application Signed | |
| ,, | | · · · · · · | |
| State of |) | | |
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| County of |) | | |
| Before me this day of known or proved to me on the bassignment to be his/her free act a | , personally appearedasis of satisfactory evidence to be t | Bradley D. Winick he person who acknowledged the | who is personally foregoing instrument of |
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| Polent B.S. | nith | 09-16- | 12 |
| nventor's Signature (Seal) | | Date Assignment Signed | |
| Robert B. Smith | | | |
| nventor's Typed Name | | Date Application Signed | |
| State of COLDRADO |) | | |
| County of LARIMER |) ss.:) | SHERYL BROWN | |
| Before me this 17 day of July 3 | | NO Drent B. Smith | who is personally |
| known or proved to me on the bassignment to be his/her free act an | asis of satisfactory evidence to be tond deed. | person who acknowledged the | foregoing instrument of |
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| Rev 10/06a (Assignment) | Page 2 of 2 | MY COMMISSION EVOLUTE | |

JULY 23, 2010

PATENT APPLICATION

ATTORNEY DOCKET NO. 200601665-1

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston,

| Texas, (hereinaffer HPDC), in furtherand subsidiaries and affiliates, and do hereby as title and interest, including the right of priorit entitled: | sign and transfer to HPI | DC, its successors and assig | ns, the entire right, |
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| ELECTRONIC DEVICE | | | |
| | ************************************** | armusaniinan armana | - I I I I I I I I I I I I I I I I I I I |
| and the invention(s) and improvement(s) se P's), divisionals, and renewals of and substite Patent of the United States and of countries reissues, or reexaminations, or extensions of I/we additionally authorize HPDC to held and enjoyed by HPDC, its successors, a terms for which said Letters Patent respectit same would have been held and enjoyed by AND I/we hereby covenant that I/we we have not executed and will not execute a that I/we will, each time a request is made, a necessary or desirable to perfect the title to Patent, to HPDC, its successors, assigns, if HPDC, or to its nominee, all known facts resulters Patent, to testify in any legal proceed continuations, C-I-P's, reissue and foreign and everything possible to aid HPDC, its successors for its or their own benefit, proper a countries provided the expenses which may paid by HPDC; AND I/we hereby authorize and requent and any official of any country or countries applications as aforesaid, to issue to HPDC Patent for said invention(s) or improvement(be issued and granted on or as a result of the I/we further authorize and direct the application now identified by the attorney do been made known to them by the United Statin Witness Whereof, I/we hereunt | t forth therein, and any tutes for said application is foreign thereto which is faid Letters Patent. If all the applications in my/o assigns, nominees or legively may be granted, reme/us had this assignment in conflicted in the application of the convergence of the application of the applications, to make all representations, to make all representations, to make all recessors, assigns, nompatent protection for said the convergence of the ending and all the application aforesaid, in a polication aforesaid, in the application aforesaid the application | in for said Letters Patent, and imay be granted thereon or start name for Letters Patent in gal representatives, to the full issued or extended, as fully a sent, and transfer not been maken the entire interest herein as the execute and deliver all such provement(s), said application is sentatives, and I/we agree the execute and I/we agree the execute and I/we agree the execute all disclaimed in interest, and I/we agree the execute all disclaimed invention(s) or improvement in lending such cooperation and invention in lending such cooperation and I/we agree the execute all disclaimed invention(s) or improvement in lending such cooperation and invention and interest, at Letters Patent of the United in accordance with the terms of insert the serial number and et forth above as soon as the execute all control and the execute as soon as the execute and the execute and interest, at Letters Patent of the United in accordance with the terms of insert the serial number and et forth above as soon as the execute and the execute as soon as the execute and | any and all Letters therefore; and any any country, to be end of the term or and entirely as the decipal and that I/ovenant and agree papers as may be an and said Letters o communicate to oplication and said ers and divisionals, and generally to ves to obtain and all and assistance are if the United States issue patents on any and all Letters States which may of this assignment. |
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| Robert J. Blakely | and the second s | • | |
| Inventor's Typed Name | | Date Application Signed | |
| State of |)) ss.: | | |
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| Before me thisday of, persona | ally appeared | Robert J. Blakely | who is personally |
| known or proved to me on the basis of satisfact assignment to be his/her free act and deed. | lory evidence to be the pe | rson who acknowledged the for | egoing instrument of |
| | | Notary Public My Commission Expires: | |

Page 1 of 2

PATENT APPLICATION

ATTORNEY DOCKET NO. 200601665-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):

| Inventor's Signature (Seal) | | Date Assignment Signed |
|--|--|--|
| Samuel M. Babb | | |
| Inventor's Typed Name | | Date Application Signed |
| State of | ١ | |
| |) ss.: | |
| County of |) | |
| • | , | Occurred \$4. Finish |
| Before me this day of known or proved to me on the ba assignment to be his/her free act an | | Samuel M. Babb who is personally ne person who acknowledged the foregoing instrument of |
| | | Notary Public My Commission Expires: |
| Inventor's Signature (Seal) | (Winich | Date Assignment Signed |
| Bradley D. Winick | | 5/3/07 |
| Inventor's Typed Name | | Date Application Signed |
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| Before me this day of | | Bradley D. Winick who is personally ne person who acknowledged the foregoing instrument of |
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| Robert B. Smith | | |
| Inventor's Typed Name | | Date Application Signed |
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| known or proved to me on the ba assignment to be his/her free act an | sis of satisfactory evidence to be the | ne person who acknowledged the foregoing instrument of |
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| Rev 10/06a (Assignment) | Page 2 of 2 | My Commission Expires: |