PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| Robert Alan Ulichney | 10/03/2010 |

RECEIVING PARTY DATA

| Name: | Hewlett-Packard Development Company, L.P. | |
|-----------------|---|--|
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| City: | Houston | |
| State/Country: | TEXAS | |
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PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 12899476 |

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Total Attachments: 1

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CH \$40,00

PATENT REEL: 025745 FRAME: 0665 HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

PATENT APPLICATION

ATTORNEY DOCKET NO. 201001365-1

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: | | |
|--|---|--|
| AN EDGE REFINEMENT SYSTEM | | |
| Filing Date: October 6, 2010 Apr | olication No.: 12/899,476 | |
| and the invention(s) and improvement(s) set forth therein, and P's), divisionals, and renewals of and substitutes for said applications of the United States and of countries foreign thereto we reissues, or reexaminations, or extensions of said Letters Patent I/we additionally authorize HPDC to file applications in held and enjoyed by HPDC, its successors, assigns, nominees of terms for which said Letters Patent respectively may be granted same would have been held and enjoyed by me/us had this assigned whereby covenant that I/we have full right to cover the title will, each time a request is made, and without undue of the title will, each time a request is made, and without undue of the title will, each time a request is made, and without undue of the title to said invention(s) of Patent, to HPDC, its successors, assigns, nominees or legal HPDC, or to its nominee, all known facts respecting said inventional testers Patent, to testify in any legal proceedings, to sign all law continuations, C-I-P's, reissue and foreign applications, to make do everything possible to aid HPDC, its successors, assigns, enforce, for its or their own benefit, proper patent protection for countries provided the expenses which may be incurred by me paid by HPDC; AND I/we hereby authorize and request the Commissional countries in the commission of the commissional countries. | any and all continuations, continuations-in-part (C-lation for said Letters Patent, and any and all Letters hich may be granted thereon or therefore; and any . my/our name for Letters Patent in any country, to be or legal representatives, to the full end of the term or d, reissued or extended, as fully and entirely as the gnment, and transfer not been made; onvey the entire interest herein assigned, and that I/onflict herewith, and I/we further covenant and agree elay, execute and deliver all such papers as may be or improvement(s), said application and said Letters representatives, and I/we agree to communicate to tion(s) or improvement(s), said application and said ful papers, to execute all disclaimers and divisionals, all rightful oaths and declarations, and generally to nominees and legal representatives to obtain and r said invention(s) or improvement(s) in any and all after the patents and Trademarks of the United States one of Patents and Trademarks of the United States | |
| and any official of any country or countries foreign to the L applications as aforesaid, to issue to HPDC, as assignee of the Patent for said invention(s) or improvement(s), including any at the issued and granted on or as a result of the application aforest live further authorize and direct the attorneys of recomplication now identified by the attorney docket number and the attorney docket number attorney docket number and the attorney docket number attorney docket numbe | ne entire right, title and interest, any and all Letters and all Letters Patent of the United States which may aid, in accordance with the terms of this assignment, and to insert the serial number and filing date of said itte set forth above as soon as the same shall have | |
| been made known to them by the United States Patent and Trac | demark Office. | |
| R. Wil | Jo/S/2010 Date Assignment Signed | |
| Inventor's Signature | Date Assignment Signed | |
| Robert Alan Ulichney Inventor's Typed Name | Date Application Signed | |
| Inventor's Signature | Date Assignment Signed | |
| Inventor's Typed Name | Date Application Signed | |

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Rev 10/09 (Assignment)

RECORDED: 02/04/2011