TTORNEY DOCKET NO. 2008	02-05-	2009	U.S. DEPARTMENT (Patent and Tr	OF COMMERCE ademark Office
TO STATE DOUBLE HAT			EET	
Name of conveying party(ies):	103546		auuress of receiving party(ies):	
Edgar CIRCENIS		HEWLET	T-PACKARD DEVELOPMENT CO	OMPANY, L.P.
Toran K. KOPREN		20555 SH	1 249	·
Michael KINGDOM		Houston,	TX 77070	
Additional name(s) of conveying party(ies)	ittached? ☐Yes ☒No	Additional nar	me(s) and address(es) attached?	es ×No
3. Nature of Conveyance: X Assignment	☐ Change o	of Name	Security Agreement	☐ Joint
		of Mairie		
Other				
Execution Date(s):2009-Jan-15				
4. Application number(s) or patent num	ber(s):			
If this document is being filed together	er with a new applicati	on, execution	date of the application is:2009-Jar	า-15
A. Patent Application No.(s)				
Application No.: 12/360,917	Date Filed	: 2009-JAN-2	В	
Confirmation No.: 7312	B. Patent I	No.(s):	JAN 2 9 2009	
* 1 PH			UAN 2 9 2009	
Additional numbers attached? NO 5. Name and address of party to whom correspondence		6. Total nur	nber of applications and patents in	volved:
concerning document should be mai			e (37 CFR 3.41): \$40.00	
Records Manager Intellectual Property Administration				
		Enclosed		
HEWLETT-PACKARD COMPANY P.O. Box 272400		_X_Aut	horization to be charged to deposi	t account.
Fort Collins, Colorado 80527-2400		8. Deposit	Account Number: 08-2025	
9. Statement and signature.				
To the best of my knowledge and be	lief, the foregoing info	rmation is true	and correct and any attached cop	oy is a true
copy of the original document.				
		m ., ,		
Clifton L. Anderson Name of Person Signing	_ Cy FI	nature	2009-Jan-1 Date	5
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	jes including covershe			
Documents to be recorded Mail Stop Assignment Recordation	(including cover sheets Services. Director of	et) should be fifthe USPTO	axed to (571) 273-0140, or mailed P.O. Box 1450, Alexandria, V.A. 2	to: 2313-1450
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PATENT

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

Rev 10/98 (Assignment) H0845-91F

PATENT APPLICATION

ATTORNEY DOCKET NO.

200801502-1

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, tille and interest, including the right of priority, in, to and under an application for Letters Patent of the United States Displaying Computer Resource Hierarchy Filing Date: **Application No.:** and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-l-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 therefore; and any reissues, or reexaminations, or extensions of said Letters Patent. I/we additionally authorize HPDC to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HPDC, 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 HPDC, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC, 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 HPDC, 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 HPDC; 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 HPDC, 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 on or as a result of the application aforesaid, in accordance with the terms of this assignment. I/we further authorize and direct the attorneys of record to insert the serial number and filling 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. N.WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s): /-/5-2009 Date Assignment Signed Inventor's Signature (Seal) <u>/-/S-Zのつ</u>G Date Application Signed Edgar CIRCENIS Inventor's Typed Name State of) ss.: County of Before me this day of , personally appeared Edgar CIRCENIS 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

Page 1 of 2

PATENT

My Commission Expires:

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

PATENT APPLICATION

ATTORNEY DOCKET NO. 200801502-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF	, l/we hereunto set my/our hand(s)	and seal(s):	
organ Koran		11/5/01	
Inventor's Signature (Seal)		Date Assignment Signed	MY. 100 100 100 100 100 100 100 100 100 10
Toran K. KOPREN		1115/09	
Inventor's Typed Name	***	Date Application Signed	***************************************
State of	•}		
) s a::		
County of)		
Before me this day of	, personally appeared	Toran K, KOPREN	who is personally
known or proved to me on the ba assignment to be his/her free act as		e person who acknowledged the for	regoing instrument of
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		My Commission Expires:	
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Inventor's Signature (Seat)		Date Assignment Signed	
		1/15/2009	
Michael KINGDOM	***************************************	Date Application Signed	
Inventor's Typed Name		Date Application Signed	
State of	•		
State VI) ss		
County of) Year		
Before me this day of	, personally appeared	Michael KINGDOM	who is personally
		e person who acknowledged the for	
assignment to be his/her free act as		en de entre en la companya de la com	
•		Notary Public	
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Inventor's Typed Name	· · · · · · · · · · · · · · · · · · ·	Date Application Signed	
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Rev (0/08 (Assignment)	Page 2 of 2	My Commission Expires:	
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