PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name		Execution Date
Wei Zhang	0	2/01/2013
Tong Zhang	0	2/01/2013
Daniel Tretter	0	2/01/2013

RECEIVING PARTY DATA

Name:	Hewlett-Packard Development Company, L.P.	
Street Address:	11445 Compaq Center Drive West	
City:	Houston	
State/Country:	TEXAS	
Postal Code:	77070	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13701632

CORRESPONDENCE DATA

9707784063 Fax Number:

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

Phone: (541)715-8443

Email: pto.assignments@hp.com Correspondent Name: **Hewlett-Packard Company** 3404 E. Harmony Road MS 35 Address Line 1: Address Line 2: Intellectual Property Administration Fort Collins, COLORADO 80528 Address Line 4:

NAME OF SUBMITTER: Debbie Syrmis

Total Attachments: 3

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Intellectual Property Administrator				PATENT API	PLICATION
3404 E. Harmony Road Mail Stop 35		RECORE) ID:	83135803	
Fort Collins, Colorado 80528		71			
		F PATENT APPLIC			
I/We, the undersigned receipt of which is hereby a DEVELOPMENT COMPANY, Texas, (hereinafter HPDC), and assigns, the entire right, title a entitled: Clustering Images	L.P., a Texas Limited d to its subsidiaries an	furtherance of my, Partnership having d affiliates, to assign	/our obligatior its principal pl and transfer	ns to HEWLETT lace of business to HPDC, its suc	-PACKARD in Houston, cessors and
Filing Date: December 3, 2	 ?012	Application I	No.: 13/70	01632	
and the invention(s) and improved divisionals, and renewals of an countries thereto which may be Patent.	d substitutes for said a	ein, and any and all application for said P	continuations, Patent, and any	y and all other P	atent of any
I/we additionally authorize H by HPDC, its successors, assign Patent respectively may be grar enjoyed by me/us had this assign	ns, nominees or legal rented, reissued or extend	epresentatives, to the ded, as fully and entire	full end of the	e term or terms fo	r which said
AND I/we hereby covenant to executed and will not execute and time a request is made, and with perfect the title to said invention(nominees or legal representative said invention(s) or improvement papers, to execute all disclaime rightful oaths and declarations, and legal representatives to obtain improvement(s) in any and all cooperation and assistance are presented.	ny agreement in conflict out undue delay, execur (s) or improvement(s), ses, and I/we agree to cot(s), said application and serially to do even and generally to do even and enforce, for its or countries provided the	herewith, and I/we further and deliver all such that application and sate mmunicate to HPDC, disaid Patent, to testinations, C-I-P's, recrything possible to air their own benefit, pro-	irther covenant in papers as ma aid Patent, to H or to its nomin ify in any legal eissue and for itd HPDC, its si oper patent pro	and agree that I/A by be necessary or IPDC, its successaree, all known fact proceedings, to selign applications, uccessors, assign otection for said in	we will, each redesirable to ors, assigns, its respecting ign all lawful to make all is, nominees vention(s) or
AND I/we hereby authorize applications as aforesaid, to issu invention(s) or improvement(s) accordance with the terms of this	e to HPDC, as assigne which may be issued	ee of the entire right,	title and intere	st, any and all Pa	itent for said
I/we further authorize and application for Patent, now identi known to them.					
IN WITNESS WHEREOF, I/	we hereunto set my/o	our hand(s) and seal((s):		
They w	(n)		02/01	12013	
Inventor's Signature		Da	te Assignment S	Signed	
161a: 7hann			02/0	1/2013	
Wei Zhang Inventor's Typed Name		Da	te Application S		
Inventor's Signature		Dai	te Assignment S	igned	
Tong Zhang Inventor's Typed Name		52	te Application Si	innod	
ELVELIUS I VUKLI NAME		112	OF MUNICIPALITY SHOWS	as 10 ap-1f 1	

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

Rev 1/2013 (Assignment)

PATENT APPLICATION

RECORD ID:	83135803
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ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree, that for good and valuable consideration, the receipt of which is hereby acknowledged, and in furtherance of my/our obligations to HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership having its principal place of business in Houston, Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, to 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 Patent entitled:

Clustering Images

entitled: Clustering Images	
Filing Date: December 3, 2012	Application No.: 13/701632
divisionals, and renewals of and substitutes for said appl	and any and all continuations, continuations-in-part (C-I-P's ication for said Patent, and any and all other Patent of an e; and any reissues, or reexaminations, or extensions of said

I/we additionally authorize HPDC to file applications in my/our name for 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 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 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 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 official of any country or countries 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 Patent for said invention(s) or improvement(s) 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 filing date and application number of said application for Patent, now identified by the Record ID and title set forth above, as soon as the same shall have been made known to them.

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

Inventor's Signature

Date

Wei Zhang
Inventor's Typed Name

2/1/2013

Date

Tong Zhang
Inventor's Typed Name

Page 1 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

PATENT APPLICATION

3404 E. Harmony Road Mail Stop 35	RECORD (D: 83135803
Fort Collins, Colorado 80528	NECOND NO.
ASSIGNMENT	OF PATENT APPLICATION (cont.)
Daniel R Tutter	1 Feb 2013
Inventor's Signature	Date
Daniel R. Tretter	
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Inventor's Signature	Date
Inventor's Typed Name	
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Page 2 of 2

Rev 1/2013 (Assignment)

RECORDED: 02/05/2013