PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3955621

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNEE CORRECTION: previously recorded on Reel 036870 Frame 0299. Assignor(s) hereby confirms the ASSIGNEE; HEWLETT-PACKARD DEVELOPMENT COMPANY,L.P

CONVEYING PARTY DATA

Name	Execution Date
DANIEL FREEDMAN	03/29/2011
PAVEL KISILEV	03/29/2011
ANASTASIA DUBROVINA	03/29/2011
SAGI SCHEIN	04/05/2011
RUTH BERGMAN	04/04/2011

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:	14921594

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: (970) 898-7444 **Email:** hpe.ip.mail@hp.com

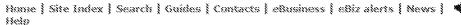
Correspondent Name: HEWLETT PACKARD ENTERPRISE Address Line 1: 3404 E. HARMONY ROAD MS 79
Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	90091124
NAME OF SUBMITTER:	JOANNA KEYT
SIGNATURE:	/JOANNA KEYT/
DATE SIGNED:	07/11/2016

Total Attachments: 14 source=90091124_Assignee_Correction#page1.tif source=90091124_Assignee_Correction#page2.tif source=90091124_Assignee_Correction#page3.tif source=90091124_Assignee_Correction#page4.tif source=90091124_Assignee_Correction#page5.tif source=90091124_Assignee_Correction#page6.tif source=90091124_Assignee_Correction#page7.tif source=90091124_Assignee_Correction#page8.tif source=90091124_Assignee_Correction#page9.tif source=90091124_Assignee_Correction#page10.tif source=90091124_Assignee_Correction#page11.tif source=90091124_Assignee_Correction#page12.tif source=90091124_Assignee_Correction#page13.tif source=90091124_Assignee_Correction#page13.tif source=90091124_Assignee_Correction#page14.tif



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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
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CONVEYING PARTY DATA

	Name	Execution Date
- 51	DANIEL FREEDMAN	03/29/2011
- 3	2.1.2.1.2.1.2.2.2.2.7	03/29/2011
	ANASTASIA DUBROVINA	03/29/2011
******	SAGI SCHEIN	04/05/2011
		04/04/2011

RECEIVING PARTY DATA

HEWLETT-PACKARD

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:	14921594	******
2,2	***************************************		2

CORRESPONDENCE DATA

 Fax Number:
 (541)715-8443

 Phone:
 970-778-4063

 Emsil:
 ips_mail@hp.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if

provided; if that is unsuccessful, it will be sent via US Mail.

Correspondent Name: HEWLETT-PACKARD COMPANY
Address Line 1: 3404 E. HARMONY ROAD

Address Line 2: MAIL STOP 35

Address Line 4: FORT COLLINS, COLORADO 80528

MANAGEMENT	ATTORNEY DOCKET NUMBER:	90091124
uccessors	NAME OF SUBMITTER:	TIMOTHY F. MYERS
***************************************	Signature:	/Timothy F. Myers, Reg. No. 42919/
ACCOUNT	Date:	10/23/2015

Total Attachments: 10

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RECEIPT INFORMATION

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REEL: 039300 FRAME: 0779

PATENT APPLICATION

PATENT REFERENCE:

201005764WO01

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 entired.

GRAPHICAL OBJECT CLASSIFICATION	
Filing Date:	Application No.:
P'e) divisionals, and renewals of and substitutes for	therein, and any and all confinuations, continuations-in-part (C-l- or said application for said Letters Patent, and any and all Letters ign thereto which may be granted thereon or therefore; and any Letters Patent.
I/we additionally authorize HPDC to file at held and enjoyed by HPDC, its successors, assign terms for which said Letters Patent respectively means would have been held and enjoyed by me/us AND I/we hereby covenant that I/we have we have not executed and will not execute any agonat I/we will, each time a request is made, and will necessary or desirable to perfect the title to said Patent, to HPDC, its successors, assigns, nomine HPDC, or to its nominee, all known facts respective terms Patent, to testify in any legal proceedings, to continuations, C-I-P's, reissue and foreign applicated everything possible to aid HPDC, its success enforce. For its or their own benefit, proper patent	oplications in my/our name for Letters Patent in any country, to be is, nominees or tegal representatives, to the full end of the term or may be granted, reissued or extended, as fully and entirely as the had this assignment, and transfer not been made; at full right to convey the entire interest herein assigned, and that if the properties of the conflict herewith, and the further covenant and agree thout undue delay, execute and deliver all such papers as may be invention(s) or improvement(s), said application and said Letters are or legal representatives, and the agree to communicate to a said invention(s) or improvement(s), said application and said to sign all lawful papers, to execute all disclaimers and divisionals, tions, to make all rightful oaths and declarations, and generally to cors, assigns, nominees and legal representatives to obtain and protection for said invention(s) or improvement(s) in any and all
paid by HPDC; AND t/we hereby authorize and request to and any difficial of any country or countries fore applications as aforesaid, to issue to HPDC, as a Patent for said invention(s) or improvement(s), included the said granted on or as a result of the application to the further authorize and direct the after the said.	the Commissioner of Patents and Trademarks of the United States bign to the United States whose duty it is to issue patents on assignee of the entire right, title and interest, any and all Letters duding any and all Letters Patent of the United States which may ination aforesaid, in accordance with the terms of this assignment, meye of record to insert the serial number and filing date of said number and title set forth above as soon as the same shall have also a Trademark Office.
7 /18	3/27/704
Inventor's Signature	Date Assignment Signed
	3/29/2011
Daniel Freedman inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Payel Kisilev	
Inventor's Typed Name	Date Application Signed
Sev 0670 (Assignment)	Page 1 of 2

Rev 06/10 (Assignment)

PATENT APPLICATION

PATENT REFERENCE: 201005764WO01

ASSIGNMENT OF PATENT APPLICATION (cont.)

Invenior's Signature	Date Assignment Signed
Anestasia Dubrovina	
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Sagi Schein	***************************************
Inventor's Typed Name	Date Application Signed
hvenior's Signature	Data Assignment Signed
Ruth Bergman	
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
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Inventor's Typed Name	Date Application Signed
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Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed

Page 2 of 2

PATENT APPLICATION

PATENT REFERENCE: 201005764WO01

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:

GRAPHICAL OBJECT CLASSIFICATION	
Filling Date: Applic:	ation No.:
and the invention(s) and improvement(s) set forth therein, and any P's), divisionals, and renewals of and substitutes for said application. Patent of the United States and of countries foreign thereto which reissues, or reexaminations, or extensions of said Letters Patent. I/we additionally authorize HPDC to file applications in my/held and enjoyed by HPDC, its successors, assigns, nominees or leterms for which said Letters Patent respectively may be granted, in same would have been held and enjoyed by me/us had this assignm. AND I/we hereby covenant that I/we have full right to convive have not executed and will not execute any agreement in conflict that I/we will, each time a request is made, and without undue delay necessary or desirable to perfect the title to said invention(s) or in Patent, to HPDC, its successors, assigns, nominees or legal repredators. The properties of th	and all continuations, continuations-in-part (C-Infor said Letters Patent, and any and all Letters may be granted thereon or therefore; and any our name for Letters Patent in any country, to be again representatives, to the full end of the term or elissued or extended, as fully and entirely as the nent, and transfer not been made; between the entire interest herein assigned, and that I/I therewith, and I/we further covenant and agree of the entire interest herein assigned, and that I/I therewith, and I/we further covenant and agree of the entire interest herein assigned, and that I/I therewith, and I/we further covenant and agree of the entire interest herein assigned, and that I/I therewith, and I/we agree to communicate to opportunities, and I/we agree to communicate to (s) or improvement(s), said application and said appers, to execute all disclaimers and divisionals, rightful oaths and declarations, and generally to minees and legal representatives to obtain and id invention(s) or improvement(s) in any and all intending such cooperation and assistance are of Patents and Trademarks of the United States of States whose duty it is to issue patents on on tire right, title and interest, any and all Letters II Letters Patent of the United States which may in accordance with the terms of this assignment, or insert the serial number and filing date of said set forth above as soon as the same shall have
Inventor's Signature	Date Assignment Signed
Daniel Freedman	
Inventor's Typed Name	Date Application Signed
Inventor's Signature	29/03/11 Date Assignment Signed 29/03/11
Pavel Kistley	
Inventor's Typed Name	Date Application Signed
Rev 08/10 (Assignment) Page 1 of 2	

PATENT APPLICATION

PATENT REFERENCE: 201005764WO01

ASSIGNMENT OF PATENT APPLICATION (cont.)

Inventor's Signature	Date Assignment Signed
Anastasia Dubrovina	
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
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Sagi Schein	The Arrange of the Control of the Co
Inventor's Typed Name	Date Application Signed
	Park Assistance at Observed
Inventor's Signature	Date Assignment Signed
Ruth Bergman Inventor's Typed Name	Date Application Signed
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Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed

Page 2 of 2 Rev 06/10 (Assignment)

Rev 06/10 (Assignment)

PATENT APPLICATION

PATENT REFERENCE: 201005764WO01

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:

GRAPHICAL OBJECT CLASSIFICATION	
Filing Date:	Application No.:
held and enjoyed by HPDC, its successors, assigns, nominiterms for which said Letters Patent respectively may be greater would have been held and enjoyed by me/us had this AND I/we hereby covenant that I/we have full right we have not executed and will not execute any agreement that I/we will, each time a request is made, and without und necessary or desirable to perfect the title to said invention Patent, to HPDC, its successors, assigns, nominees or le HPDC, or to its nominee, all known facts respecting said in Letters Patent, to testify in any legal proceedings, to sign all continuations, C-I-P's, reissue and foreign applications, to ridd everything possible to aid HPDC, its successors, assignerated by HPDC; AND I/we hereby authorize and request the Command any official of any country or countries foreign to the applications as aforesaid, to issue to HPDC, as assignee Patent for said invention(s) or improvement(s), including ar be issued and granted on or as a result of the application after the said invention of the said of the spoilication after the said invention of the said of the said invention of the said of the spoilication after the said invention of the said of t	and any and all continuations, continuations-in-part (C-I oplication for said Letters Patent, and any and all Letters to which may be granted thereon or therefore; and any atent. Is in my/our name for Letters Patent in any country, to be sees or legal representatives, to the full end of the term of anted, reissued or extended, as fully and entirely as the assignment, and transfer not been made; to convey the entire interest herein assigned, and that I in conflict herewith, and I/we further covenant and agree use delay, execute and deliver all such papers as may be (s) or improvement(s), said application and said Letters gal representatives, and I/we agree to communicate to nivention(s) or improvement(s), said application and said i lawful papers, to execute all disclaimers and divisionals is lawful papers, to execute all disclaimers and generally to togus, nominees and legal representatives to obtain and one for said invention(s) or improvement(s) in any and all y me/us in lending such cooperation and assistance are dissioner of Patents and Trademarks of the United States the United States whose duty it is to issue patents or of the entire right, title and interest, any and all Letter try and all Letters Patent of the United States which may presaid, in accordance with the terms of this assignment, record to insert the serial number and filing date of said and title set forth above as soon as the same shall have
Inventor's Signature	Date Assignment Signed
Daniel Freedman	
inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Pavel Kistlev	
Inventor's Typed Name	Date Application Signed

PATENT APPLICATION

PATENT REFERENCE: 201005764WO01

ASSIGNMENT OF PATENT APPLICATION (cont.)

741K	3/29/11
Inventor's Signature	Data Assignment Signed
Anastasia Dubrovina	3/29/11
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Ouri Valente	
Sagi Schein Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
stand o egassio	and rangiment angilor
Ruth Bergman Inventor's Typed Name	Date Application Signed
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Inventor's Signature	Date Assignment Signed
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inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed

Rev 06/10 (Assignment)

Page 2 of 2

Rev 96/10 (Assignment)

PATENT APPLICATION

PATENT REFERENCE: 201005764WO01

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 Hewleti-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:

GRAPHICAL OBJECT CLASSIFICATION	
Filing Date:	Application No.:
and the invention(s) and improvement(s) s P's), divisionals, and renewals of and subs Patent of the United States and of countri reissues, or reexaminations, or extensions if/we additionally authorize HPDC theld and enjoyed by HPDC, its successors terms for which said Letters Patent respectance would have been held and enjoyed by AND I/we hereby covenant that I/w we have not executed and will not execute that I/we will, each time a request is made, necessary or desirable to perfect the title Patent, to HPDC, its successors, assigns, HPDC, or to its nominee, all known facts if Letters Patent, to testify in any legal procee continuations, C-I-P's, reissue and foreign do everything possible to aid HPDC, its a enforce, for its or their own trenefit, proper countries provided the expenses which ma paid by HPDC; AND I/we hereby authorize and re and any official of any country or countri applications as aforesaid, to issue to HPD Patent for said invention(s) or improvemen be issued and granted on or as a result of the I/we further authorize and direct to	et forth therein, and any and all continuations, continuations-in-part (C-titutes for said application for said Letters Patent, and any and all Letter ies foreign thereto which may be granted thereon or therefore; and an of said Letters Patent to flie applications in my/our name for Letters Patent in any country, to be, assigns, nominees or legal representatives, to the full end of the term of tively may be granted, reissued or extended, as fully and entirely as they me/us had this assignment, and transfer not been made; we have full right to convey the entire interest herein assigned, and that any agreement in conflict herewith, and I/we further covenant and agree and without undue delay, execute and deliver all such papers as may be to said invention(s) or improvement(s), said application and said Letter, nominees or legal representatives, and I/we agree to communicate to respecting said invention(s) or improvement(s), said application and said adings, to sign all lawful papers, to execute all disclaimers and divisionals applications, to make all rightful oaths and declarations, and generally to successors, assigns, nominees and legal representatives to obtain any patent protection for said invention(s) or improvement(s) in any and a pay be incurred by me/us in lending such cooperation and assistance and request the Commissioner of Patents and Trademarks of the United State ies foreign to the United States whose duty it is to issue patents of DC, as assignee of the entire right, title and interest, any and all Letters Patent of the United States which ma the application aforesaid, in accordance with the terms of this assignment the attorneys of record to insert the serial number and filing date of said docket number and title set forth above as soon as the same shall have
Inventor's Signature	Date Assignment Signed
Daniel Freedman Inventor's Typed Name	Data Application Signed
Inventor's Signature	Date Assignment Signed
Pavel Kisilev	
Inventor's Typed Name	Date Application Signed

Page 1 of 2

PATENT APPLICATION

PATENT REFERENCE: 201005764WO01

ASSIGNMENT OF PATENT APPLICATION (cont.)

Inventor's Signature	Date Assignment Signed
Anastasia Dubrovina	
Inventor's Typed Name	Date Application Signed
Sagi Scheik	APPI//\$/304/
Inventor's Signature	and the first of the second of
Sagi Schein	Apyil/s/2011
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Ruth Bergman	
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed
Invertor's Signature	Date Assignment Signed
Invertor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed

Rev (16/40 (Assignment)

Page 2 of 2

PATENT APPLICATION

PATENT REFERENCE: 201005764VVO01

ASSIGNMENT OF PATENT APPLICATION

IWe, 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 mylour 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:

title and inferest, including the right of priority, in, to a entitled:	and under an application for Letters Patent of the United State
GRAPHICAL OBJECT CLASSIFICATION	
Filing Date:	Application No.:
Ps), divisionals, and renewals of and substitutes for a Patent of the United States and of countries foreign reissues, or reexaminations, or extensions of said Lettina in the Indianal engineer in	cations in my/our name for Letters Patent in any country, to be nominees or legal representatives, to the full end of the term of be granted, reissued or extended, as fully and entirely as the distribution of the convey the entire interest herein assigned, and that it is assignment, and transfer not been made: If right to convey the entire interest herein assigned, and that it the conflict herewith, and live further covenant and agree ut undue delay, execute and deliver all such papers as may be ention(s) or improvement(s), said application and said Letter is or legal representatives, and tiwe agree to communicate it said invention(s) or improvement(s), said application and said ign all lawful papers, to execute all disclaimers and divisionals is, to make all rightful oaths and declarations, and generally to assigns, nominees and legal representatives to obtain an attection for said invention(s) or improvement(s) in any and attection for said invention(s) or improvement(s) in any and attection for said invention(s) or improvement(s) in any and attection for said invention(s) or improvement(s) in any and attection for said invention(s) or improvement(s) in any and attection for said invention such cooperation and assistance are continuously in lending such cooperation and assistance are continuously in a coordance with the terms of this assignment in accordance with the terms of this assignment to or record to insert the serial number and filing date of said there and title set forth above as soon as the same shall have
Inventor's Signature	Date Assignment Signed
Darriel Freedman	
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Pavel Kisilev	
Inventor's Typed Name	Date Application Signed
Rev 08/10 (Assignment) Ps	age 1 of 2

PATENT APPLICATION

PATENT REFERENCE: 201005764WO01

ASSIGNMENT OF PATENT APPLICATION (cont.)

Inventor's Signature		Date Assignment Signed
Anastasia Dubrovina		
Inventor's Typed Name		Date Application Signed
Inventor's Signature		Date Assignment Signed
Sagi Schein		
Inventor's Typed Name		Date Application Signed
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Ruth Sergman		Anr 4. 2011
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RECORDED: 07/11/2016