# 503812585 05/04/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3859233

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MEDHABI RAY	01/29/2014
MARIA G. CASTELLANOS	01/28/2014

# **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:	15034513	

# **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.

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**Email:** hpe.ip.mail@hpe.com

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Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	90203153
NAME OF SUBMITTER:	LAURA M. ZAVALA
SIGNATURE:	/Laura M. Zavala/
DATE SIGNED:	05/04/2016

**Total Attachments: 2** 

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PATENT 503812585 REEL: 038461 FRAME: 0849

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

Rev 1/2013 (Assignment)

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RECORD ID:	83776619	

# 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 HEWILETT-PACKARD

DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership hav Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, to as assigns, the entire right, title and interest, including the right of prior entitled:	sign and transfer to HPDC, its successors and
OPTIMIZING WINDOW JOINS OVER DATA STREAMS	
Fiting Date: HEREWITH Applicat	ion No.:
and the invention(s) and improvement(s) set forth therein, and any and divisionals, and renewals of and substitutes for said application for se countries thereto which may be granted thereon or therefore; and any replacent.	id Patent, and any and all other Patent of any
I/we additionally authorize HPDC to file applications in my/cur name by HPDC, its successors, assigns, nominees or legal representatives, to Patent respectively may be granted, reissued or extended, as fully and enjoyed by me/us had this assignment, and transfer not been made;	o the full end of the term or terms for which said
AND I/we hereby covenant that I/we have full right to convey the enti- executed and will not execute any agreement in conflict herewith, and I/v time a request is made, and without undue delay, execute and deliver all perfect the title to said invention(s) or improvement(s), said application an nominees or legal representatives, and I/we agree to communicate to HF said invention(s) or improvement(s), said application and said Patent, to papers, to execute all disclaimers and divisionals, continuations, C-I-P rightful oaths and declarations, and generally to do everything possible and legal representatives to obtain and enforce, for its or their own benef improvement(s) in any and all countries provided the expenses whice cooperation and assistance are paid by HPDC;	ve further covenant and agree that I/we will, each such papers as may be necessary or desirable to nd said Patent, to HPDC, its successors, assigns PDC, or to its nominee, all known facts respecting testify in any legal proceedings, to sign all lawfu 's, reissue and foreign applications, to make all to aid HPDC, its successors, assigns, nominees it, proper patent protection for said invention(s) o
AND I/we hereby authorize and request the official of any country applications as aforesaid, to issue to HPDC, as assignee of the entire rinvention(s) or improvement(s) which may be issued and granted on accordance with the terms of this assignment.	ight, title and interest, any and all Patent for said
I/we further authorize and direct the attorneys of record to insert application for Patent, now identified by the Record ID and title set forth a known to them.	
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and	seal(s):
Madral R.	01/29/2014
Inventor's Signature	Date
Medhabi Ray Inventor's Typed Name	
Inventor's Signature	Date
Maria G. Castellanos	
Inventor's Typed Name	

Page 1 of 1

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

	PATENT APPLICATION
RECORD ID:	83776619

# **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,

	es and affiliates, to assign and transfer to HPDC, its successors an uding the right of priority, in, to and under an application for Pater
OPTIMIZING WINDOW JOINS OVER DATA S	TREAMS
Filing Date: HEREWITH	Application No.:
divisionals, and renewals of and substitutes for	th therein, and any and all continuations, continuations-in-part (C-I-P's said application for said Patent, and any and all other Patent of an or therefore; and any reissues, or reexaminations, or extensions of said
by HPDC, its successors, assigns, nominees or	cations in my/our name for Patent in any country, to be held and enjoye egal representatives, to the full end of the term or terms for which salextended, as fully and entirely as the same would have been held an er not been made;
executed and will not execute any agreement in a time a request is made, and without undue delay, perfect the title to said invention(s) or improvement nominees or legal representatives, and I/we agrees said invention(s) or improvement(s), said applicate papers, to execute all disclaimers and divisional rightful oaths and declarations, and generally to and legal representatives to obtain and enforce, for improvement(s) in any and all countries provide cooperation and assistance are paid by HPDC;  AND I/we hereby authorize and request the applications as aforesaid, to issue to HPDC, as a invention(s) or improvement(s) which may be it accordance with the terms of this assignment.	right to convey the entire interest herein assigned, and that I/we have nonflict herewith, and I/we further covenant and agree that I/we will, each execute and deliver all such papers as may be necessary or desirable of t(s), said application and said Patent, to HPDC, its successors, assigns to communicate to HPDC, or to its nominee, all known facts respecting ion and said Patent, to testify in any legal proceedings, to sign all lawfus, continuations, C-I-P's, reissue and foreign applications, to make a do everything possible to aid HPDC, its successors, assigns, nomineed or its or their own benefit, proper patent protection for said invention(s) and the expenses which may be incurred by me/us in lending successing and granted on or as a result of the application aforesaid, it is successed and granted on or as a result of the application number of said in and title set forth above, as soon as the same shall have been made they our hand(s) and seal(s):
Inventor's Signature	Date
Medhabi Ray Inventor's Typed Name N. Quilla	
	<u> </u>
Inventor's Signature	Date
Maria G. Castellanos	
Inventor's Typed Name	
Rev 1/ 2013 (Assignment)	Page 1 of 1

**PATENT REEL: 038461 FRAME: 0851**