504081151 11/03/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4127819

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KEVIN DOOLEY	05/26/2014
RICHARD COULL	05/28/2014
PAT J. REILLY	07/15/2014

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:	15305045		

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@hpe.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:	90284654
NAME OF SUBMITTER:	ASHOK K. MANNAVA
SIGNATURE:	/Ashok K. Mannava/
DATE SIGNED:	11/03/2016

Total Attachments: 3

source=90284654_Assignment#page1.tif source=90284654_Assignment#page2.tif source=90284654_Assignment#page3.tif

PATENT 504081151 REEL: 040216 FRAME: 0827

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

Rev 1/2010 (Assignment)

PATENT APPLICATION

RECORD ID:	83820157	

ASSIGNMENT OF PATENT APPLICATION

IAVe, 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:

entitled:	
MANAGING A FLUID CONDITION IN A PIPE	
Filing Date:	Application No.:
and the invention(s) and improvement(s) set for divisionals, and renewals of and substitutes for	orth therein, and any and all continuations, continuations-in-part (C-LP's), or said application for said Patent, and any and all other Patent of any on or therefore; and any reissues, or reexaminations, or extensions of said
by HPDC, its successors, assigns, nominees of	plications in my/our name for Patent in any country, to be held and enjoyed or legal representatives, to the full end of the term or terms for which said or extended, as fully and entirely as the same would have been held and isfer not been made;
executed and will not execute any agreement if time a request is made, and without undue delaperfect the title to said invention(s) or improvem nominees or legal representatives, and I/we agsaid invention(s) or improvement(s), said applic papers, to execute all disclaimers and division rightful oaths and declarations, and generally that degal representatives to obtain and enforce improvement(s) in any and all countries proceoperation and assistance are paid by HPDC; AND I/we hereby authorize and request that applications as aforesaid, to issue to HPDC, a	full right to convey the entire interest herein assigned, and that I/we have no in conflict herewith, and I/we further covenant and agree that I/we will, each sy, execute and deliver all such papers as may be necessary or desirable to nent(s), said application and said Patent, to HPDC, its successors, assigns tree to communicate to HPDC, or to its nominee, all known facts respecting cation and said Patent, to testify in any legal proceedings, to sign all lawfulnals, continuations, C-I-P's, reissue and foreign applications, to make all to do everything possible to aid HPDC, its successors, assigns, nominees, for its or their own benefit, proper patent protection for said invention(s) of wided the expenses which may be incurred by me/us in lending such the official of any country or countries whose duty it is to issue patents or is assignee of the entire right, title and interest, any and all Patent for said issued and granted on or as a result of the application aforesaid, in
accordance with the terms of this assignment.	and ground on its de a road or the displacement and another its
I/we further authorize and direct the atto application for Patent, now identified by the Red known to them.	omeys of record to insert the filing date and application number of said cord ID and title set forth above, as soon as the same shall have been made
IN WITNESS WHEREOF, I/we hereunto	set my/our hand(s) and seal(s):
	NO I amer
inventor's Signature	16th Hay 2014
Wasiim 2 olduning	e of the second
Kevin DOOLEY	
Inventor's Typed Name	
Inventor's Signature	Dete:
Richard COULL Inventor's Typed Name	

Page 1 of 2

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

				. RC			

		83820	
RECORDID:			

ASSIGNMENT OF PATENT APPLICATION

INVe, 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.

entitled:	and as udur or burars, in, in sun origer su application for taken
MANAGING A FLUID CONDITION IN A PIPE	
Filing Date:	Application No.:
divisionals, and renewals of and substitutes for sa	therein, and any and all continuations, continuations-in-part (C-I-P's), aid application for said Patent, and any and all other Patent of any therefore; and any relissues, or teexaminations, or extensions of said
by HPDC, its successors, assigns, nominees or leg	tions in my/our name for Palent in any country, to be held and enjoyed gal representatives, to the full end of the term or terms for which said clended, as fully and entirely as the same would have been held and not been made;
executed and will not execute any agreement in cortime a request is made, and without undue delay, experfect the title to said invention(s) or improvement(nominees or legal representatives, and tiwe agree to said invention(s) or improvement(s), said application papers, to execute all disclaimers and divisionals, rightful oaths and declarations, and generally to do and legal representatives to obtain and enforce, for	ght to convey the entire interest herein assigned, and that I/we have not nilict herewith, and I/we further covenant and agree that I/we will, each secute and deliver all such papers as may be necessary or desirable to (s), said application and said Patent, to HPDC, its successors, assigns, to communicate to HPDC, or to its nominee, all known facts respecting a and said Patent, to testify in any legal proceedings, to sign all lawful continuations, C-I-P's, reissue and foreign applications, to make all everything possible to aid HPDC, its successors, assigns, nominees its or their own benefit, proper patent protection for said invention(s) or differ expenses which may be incurred by me/us in lending such
applications as aforesaid, to issue to HPDC, as ass	fficial of any country or countries whose duty it is to issue patents on signes of the entire right, title and interest, any and all Patent for said used and granted on or as a result of the application aforesaid, in
	is of record to insert the filing date and application number of said ID and title set forth above, as soon as the same shall have been made
IN WITNESS WHEREOF, I/we hereunto set n	ny/our hand(s) and seal(s):
Inventor's Signature	Cate
Kevin DOOLEY	
The state of the s	2\S\4
Inventor's Signature	Date
Richard COULL Inventor's Typed Name	

Rev 17 2013 (Assignment)

Page 1 of 2

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

THATEAG	த ஹைர்	BOY A TREE S	ø
N 200 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ALL YOUNG	. 40. 480. X X . 51	,,,

Mail Stop 35	RECORD ID:	83820157
Fort Collins, Colorado 80528	na menare a espei son a model su much	.
Applementation	PATENT APPLICATION (cont.)	,
<i>☆ 11/</i> 0	/6	July 2014
nventor's Signature	Date	
m 1 / 2 / March 2007 Ca		
Pat J. REILLY nventor's Typed Name		
Control of the second		
Inventor's Signature	Date	
arman a sugamurs		
inventor's Typed Name		
Inventor's Signature	Date	
Inventor's Typed Name.		
Inventor's Signature	Date	
inventor's Typed Name		
Inventor's Signature		
·**		
Inventor's Typed Name		
The second secon		
£		
nventor's Signature	Date	
rwenior's Typed Namé		

Page 2 of 2

RECORDED: 11/03/2016

Rev 1/ 2013 (Assignment)

PATENT REEL: 040216 FRAME: 0830