# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5140421

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
NING GE	04/01/2016
JAMES ABBOTT	03/31/2016
STEVEN J SIMSKE	03/31/2016
PAUL J BENNING	04/11/2016
LIHUA ZHAO	04/05/2016

#### 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:	16071018

#### **CORRESPONDENCE DATA**

**Fax Number:** (970)778-4063

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: HP INC.

Address Line 1: 3390 E. HARMONY ROAD MS 35
Address Line 2: INTELLECTUAL PROPERTY

Address Line 4: FORT COLLINS, COLORADO 80528

ATTORNEY DOCKET NUMBER:	84970256
NAME OF SUBMITTER:	JESSICA MANIA
SIGNATURE:	/Jessica Mania/
DATE SIGNED:	09/13/2018
	1

**Total Attachments: 5** 

PATENT REEL: 046871 FRAME: 0241



PATENT REEL: 046871 FRAME: 0242

HP Inc.
3390 E. Harmony Road
Mail Stop 35
Fort Collins, Colorado 80528

#### PATENT APPLICATION

RECORD ID:	84457377
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#### **ASSIGNMENT OF PATENT APPLICATION**

I/We, the undersigned (each), 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, agree to assign and transfer and 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 Patent entitled:

#### PARTICULATE BUILD MATERIAL

Filing Date:	April 11, 2016	Application No.:	PCT/US2016/026993
divisionals, ar	ntion(s) and improvement(s) set forth therein, nd renewals of and substitutes for said applieto which may be granted thereon or therefor	cation for said Paten	it, and any and all other Patent of any
I/we addi	tionally authorize HPDC to file applications in r	ny/our name for Pater	nt in any country, to be held and enjoyed

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.

HP Inc. 3390 E. Harmony Road			PATENT APPLICATION
Mail Stop 35 Fort Collins, Cotorado 80520	8	RECORD ID:	84457377
Limited Partnership hav subsidiaries and affiliates assigns, the entire right, entitled	d (each), for good and va ny/our obligations to HE ing its principal place of s, agree to assign and tra title and interest, includi	of business in Houston, Texas,	I of which is hereby acknowledged MENT COMPANY, L.P., a Taxa , (hereinafter HPDC), and to it nafer to HPDC, its successors and d under an application for Pater
PARTICULATE BUILD N	MATERIAL		
Filing Date: April 11, 20	)16	Application No.: PC	T/US2016/026993
			ions, continuations-in-part (C-I-P's d any and all other Patent of an examinations, or extensions of sai
	granted, reissued or ext	ar representatives, to the full end	any country, to be held and enjoyed of the term or terms for which said e same would have been held and
time a request is made, and perfect the title to said inve- nominees or legal represen- said invention(s) or improve- papers, to execute all disc rightful oaths and declaration legal representatives to ob-	d without undue delay, exit inton(s) or improvement(s) ntatives, and I/we agree to ement(s), said application claimers and divisionals, and generally to do evitain and enforce, for its call countries provided the	ecute and deliver all such papers a coute and deliver all such papers a ), said application and said Patent communicate to HPDC, or to its rand said Patent, to testify in any locantinuations, C-I-P's, reissue and erything possible to aid HPDC, its to their own honofit	ein assigned, and that I/we have no enant and agree that I/we will, each is may be necessary or desirable to to HPDC, its successors, assigns nominee, all known facts respecting legal proceedings, to sign all lawfurd of foreign applications, to make all successors, assigns, nominees and t protection for said invention(s) or me/us in lending such cooperation
	nt(s) which may be issue		hose duty it is to issue patents or nterest, any and all Patent for said it of the application aforesaid, in
I/we further authorize application for Patent, now in known to them.	and direct the attorneys dentified by the Record ID	of record to insert the filing date and title set forth above, as soon	s and application number of said as the same shall have been made
IN WITNESS WHEREO	F, I/we hereunto set my	/our hand(s) and seal(s):	
Inventor's Signature		Date	
Ning	es.		
First/Middle Name	Ge Last Name		
	1/A		
Mines Cylly	12/4	31 M	ar 2016
Inveritor's Signature	41	Data	

Page 1 of 2

James

First/Middle Name

Rev 8/2014 (Assignment)

**Abbott** 

Last Name

**PATENT** REEL: 046871 FRAME: 0244 HP Inc. 3390 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

## PATENT APPLICATION

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Page 2 of 2

HP Inc. 3390 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

# PATENT APPLICATION

Fort Collins, Colorado 8052	8]	RECORD ID:	84457377
	ASSIGNMENT OF PA	TENT APPLICATION (con	t.)
Inventor's Signature	***	Date	
Steven J	Simske		
First/Middle Name	Last Name		
fel to		4-11-	16
Inventor's Signature		Date	
Paul J	Benning		
First/Middle Name	Last Name		•
Inventor's Signature		Date	<u></u>
Lihua	Zhao		
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
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Inventor's Signature	3	Date	
First/Middle Name	Last Name		

Page 2 of 2

HP Inc.
3390 E. Harmony Road
Mail Stop 35
Fort Collins, Colorado 80528

## PATENT APPLICATION

Fort Collins, Colorado 8052	28]	RECORD ID:	84457377
	ASSIGNMENT OF PA	ATENT APPLICATION (cont	.)
Inventor's Signature		Date	
Steven J	Simske		
First/Middle Name	Last Name		
Inventor's Signature		Date	
Paul J	Benning		
First/Middle Name	Last Name		
Inventor's Signature		Date 41	5/20/6
Lihua	Zhao		
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name		
Inventor's Signature		Date	
First/Middle Name	Last Name	.,,	
Inventor's Signature		Date	
First/Middle Name	Last Name		

Page 2 of 2

Rev 8/2014 (Assignment)