502525738 10/09/2013

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2570956

SUBMISSION TYPE:			NEW ASSIGNMENT			
NATURE OF CONVEYANCE:			ASSIGNMENT			
CONVEYING PART	Y DATA					
		Na	ame	Execution Date		
THOMAS FORD				12/07/2009		
KHOA D. NGUYEN				12/08/2009		
RICHARD D. POWI	ERS			12/07/2009		
RECEIVING PARTY	DATA					
Name:	Hewlett-Packa	Hewlett-Packard Development Company, L.P.				
Street Address:		11445 Compaq Center Drive West				
City:	Houston					
State/Country:	TEXAS					
Postal Code:	77070					
PROPERTY NUMBE	ERS Total: 1					
Propert	у Туре	1263558	Number 80			
Г	у Туре	1263558				
Propert	у Туре	1263558				
Propert Application Number CORRESPONDENC	y Type r. DE DATA		80			
Propert Application Number CORRESPONDENC	y Type r: CE DATA (970	1263558	63			
Propert Application Number CORRESPONDENC Fax Number: Phone:	y Type r: CE DATA (970 (541))778-406 1)715-844	63			
Propert Application Number CORRESPONDENC Fax Number: Phone: Email:	y Type r. CE DATA (970 (541 pto.a	0)778-406 1)715-844 assignme	63 43 ents@hp.com the email attempt is unsuccessful.			
Propert Application Number CORRESPONDENC Fax Number: Phone: Email: Correspondence will. Correspondent Nam	y Type T: CE DATA (970 (541 pto.a If be sent via US Maie: HEW	0)778-406 1)715-844 assignme ail when t	63 43 ents@hp.com the email attempt is unsuccessful. ACKARD COMPANY			
Property Application Number CORRESPONDENC Fax Number: Phone: Email: Correspondence will Correspondent Nam Address Line 1:	y Type T. CE DATA (970 (541 pto.e ####################################	0))778-406 1)715-844 assignme ail when to VLETT-P. 4 E. HAR	63 43 ents@hp.com the email attempt is unsuccessful. ACKARD COMPANY MONY ROAD MS 35			
Propert Application Number CORRESPONDENC Fax Number: Phone: Email: Correspondence will Correspondent Nam Address Line 1: Address Line 2:	y Type T: CE DATA (970 (541 pto.a If be sent via US Maile: HEW 3404 INTE	0)778-406 1)715-844 assignme ail when t VLETT-P. 4 E. HAR ELLECTL	63 43 ents@hp.com the email attempt is unsuccessful. ACKARD COMPANY MONY ROAD MS 35 JAL PROPERTY ADMINISTRATION			
Propert Application Number CORRESPONDENC Fax Number: Phone: Email: Correspondence will Correspondent Nam Address Line 1: Address Line 2:	y Type T: CE DATA (970 (541 pto.a If be sent via US Maile: HEW 3404 INTE	0)778-406 1)715-844 assignme ail when t VLETT-P. 4 E. HAR ELLECTL	63 43 ents@hp.com the email attempt is unsuccessful. ACKARD COMPANY MONY ROAD MS 35			
Property Application Number CORRESPONDENCY Fax Number: Phone: Email: Correspondence will. Correspondent Nam Address Line 1: Address Line 2: Address Line 4:	y Type T: CE DATA (970 (541 pto.a If be sent via US Maile: HEW 3404 INTE	0)778-406 1)715-844 assignme ail when t VLETT-P. 4 E. HAR ELLECTL	63 43 ents@hp.com the email attempt is unsuccessful. ACKARD COMPANY MONY ROAD MS 35 JAL PROPERTY ADMINISTRATION			
Application Number CORRESPONDENC Fax Number: Phone: Email: Correspondence will	y Type T: CE DATA (970 (541 pto.a If be sent via US Maile: HEW 3404 INTE	0)778-406 1)715-844 assignme ail when t VLETT-P. 4 E. HAR ELLECTL	80 63 43 ents@hp.com the email attempt is unsuccessful. ACKARD COMPANY MONY ROAD MS 35 JAL PROPERTY ADMINISTRATION INS, COLORADO 80528			
Property Application Number CORRESPONDENCE Fax Number: Phone: Email: Correspondence will. Correspondent Name Address Line 1: Address Line 2: Address Line 4:	y Type T: CE DATA (970 (541 pto.a If be sent via US Maile: HEW 3404 INTE	0)778-406 1)715-844 assignme ail when t VLETT-P. 4 E. HAR ELLECTL	63 43 43 ents@hp.com the email attempt is unsuccessful. ACKARD COMPANY MONY ROAD MS 35 JAL PROPERTY ADMINISTRATION INS, COLORADO 80528 JOANNA KEYT			

PATENT REEL: 031369 FRAME: 0729

source=82260407_Assignment#page1.tif source=82260407_Assignment#page2.tif

Total Attachments: 2

HEWLETT-PACKARD COMPANY intellectual Property Administrator P.O. Box 272400 Fort Collins, Colorado 80527-2400 PATENT APPLICATION

ATTORNEY DOCKET NO.

200903846

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEVILETT-PACKARD

DEVELOPMENT COM Texas, (hereinafter H subsidiaries and affiliat title and interest, includentitled:	PANY, LP., a Texas Li PDC), in furtherance es, and do hereby assig	imited Partnership h of my/our obligation gn and transfer to HP in, to and under an a	aving its principal place of ns to the Hewlett-Packan DC, its successors and as pplication for Letters Paten	business in Houston, d Company and its signs, the entire right,
Filing Date: Decei	mber 10. 2009	& months.	ation No.: 12/63558)
P's), divisionals, and repatent of the United Streissues, or reexamina I/we additionatheld and enjoyed by Hatems for which said Lame would have been we have not executed that I/we will, each time necessary or desirable Patent, to HPDC, its HPDC, or to its nomin Letters Patent, to testill continuations, C-I-P's, do everything possible enforce, for its or their countries provided the paid by HPDC; AND I/we her and any official of an applications as afores Patent for said inventible issued and granted I/we further application now identification made known to I	enewals of and substitutitates and of countries allons, or extensions of sally authorize HPDC to filly authorize HPDC, its successors, as etters Patent respective hald and enjoyed by meby covenant that I/we and will not execute an e a request is made, and so to perfect the title to e successors, assigns, no se, all known facts respiry in any legal proceeding reissue and foreign approper or expenses which may leave and require to authorize and requirely country or countries aid, to issue to HPDC, on or as a result of the authorize and direct the	forth therein, and any less for said application foreign thereto whick and Letters Patent. The applications in my signs, nominees or less that this assignment in continuous and invention (s) or ir cominees or legal reprints to sign all lawful pecting said inventionings, to sign all lawful pecting said inventionings, to sign all lawful pectings and lawful pectings, assigns, no altent protection for sabe incurred by me/us est the Commissione foreign to the Unite as assignee of the asphication aforesaid attorneys of record that the Commissione as assignee and title as Patent and Trademers Patent and Trademers and title as Patent and Trademers and the commissioners and title as Patent and Trademers and the commissioners and title as Patent and Trademers and the commissioners and title as Patent and Trademers and the commissioners and title as Patent and Trademers and the commissioners and title as Patent and Trademers and the commissioners and title as Patent and Trademers and the commissioners and title as Patent and Trademers and the commissioners and title as Patent and Trademers and the commissioners and title as Patent and Trademers and the commissioners and title as Patent and Trademers and the commissioners and title as Patent and Trademers and the commissioners and the comm	and all continuations, cont in for said Letters Patent, as may be granted thereon cour name for Letters Patent again representatives, to the elessued or extended, as full nent, and transfer not been rey the entire interest hereing the entire interest hereing, execute and lowe further approvement(s), said applications and interest in tending such declarations and legal represent in lending such cooperation to faters and Trademarked Stales whose duty it is entire right, title and interest in accordance with the term to insert the seriet number set forth above as soon as lark Office.	inuations-in-part (C-t- nd any and all Letters or therefore; and any tin any country, to be full end of the term or fly and entirely as the made; n assigned, and that i/ r covenant and agree ach papers as may be stion and said Letters are to communicate to d application and said imers and divisionals, ions, and generally to statives to obtain and nent(s) in any and all an and assistance are s of the United States to issue patents on st, any and all Letters tad States which may and filling date of said
)		. Totalini 1904 yilgi 190 ya Galarini iliyo barini	7 * 1-24	0.000 S. 4 00
Inventor's Signature (Sea			Date Assignment Signec	
A STATE OF THE STA	· •		1914	1486 1486
Thomas FORD	······································		- <u>- , </u>	*************************************
Inventor's Typed Name			Date Application Signed	
State of) 58.:		
County of)		
Before me this day o		lly appeared	Thomas FORO	who is personally
known or proved to me assignment to be his/her		ory syldence to be the	person who acknowledged the	e foregoing instrument of

My Commission Expires

HEWLETT-PACKARD COMPANY		PATENT APPLICATION
Intellectual Property Administrator P.O. Box 272400	A TO	TORNEY DOCKET NO
Fort Collins: Colorado 80527-2400	83	TORNET DOCKET NO
ĄŞ	SIGNMENT OF PATENT APPLIC	CATION (cont.)
\mathcal{I}		
in witness whereof,	I/we hereunto set my/our hand(s) and s	
111	~~	12/8/2009 Date Assignment Signed
Inventor's Signature (Seal)	/	Date Assignment Signed
		12/8/2009
Khoa D. NGUYEN Inventor's Typed Name	<u> </u>	Date Application Signed
mrentora rypad ripine		Carlo (Aprilana de Carlo)
State of	3	
The state of the s) ss.:	
County of)	
Before me this day of	, personally appeared	Khoa D. NGUYEN who is personally
	sis of satisfactory evidence to be the per	son who acknowledged the foregoing instrument of
assignment to be his/her free act ar	d deed.	2
		Notice Public My Commission Expens
() x n		12-7-2009
Inventor's Signature (Seaf)		Date Assignment Signed
· · · · · · · · · · · · · · · · · · ·		
Richard D. POWERS		72 - 7 - 2 o sy Date Application Signed
Inventor's Typed Name		Date Application Signed
State of Jiffas County of Callin	- W	
State of Tree) ss.:	
Country of Caller	1	
Before me this 7 day of 10°	Z . neganally appeared	Richard D. POWERS who is personally
known or proved to me on the ba	sis of satisfactory evidence to be the per	rson who acknowledged the foregoing instrument of
assignment to be his/her free act as	nd deed.	The Access
		-Notary Public
	ুক্রিয় ROXIE A. SCRUGOS	My Commussion Expires: 8/30/00/0
	("THE" IN COMMISSION EXPRES	
	(€ ₂₇): ALIGUST 30, 2010	i.
		Date Assignment Signed
Inventor's Signature (Seal)		Date Assignment Signed
Inventor's Typed Name		Date Application Signed
State of)	
<i>2</i> 0) ss.:	
County of	3	
Before me thisday of	, personally appeared	who is personally
known or proved to me on the bassignment to be his/her free act a		rson who acknowledged the foregoing instrument of
socialities to be wants use are	PAR MASSA.	Notary Pubbo
	New English	My Commission Expires
Day 1006 (Assessment)	Page 2 of 2	

PATENT REEL: 031369 FRAME: 0731

RECORDED: 10/09/2013

Rev 10/08 (Assignment)