MANNAVA & KANG

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

RECORDATION FORM COVER SHEET				
PATENTS ONLY				
Name of conveying party(les):	2. Name and address of receiving party(ies):			
Cliff MCCARTHTY	HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.			
Zhikui WANG	20555 SH 249			
Troy MILLER	Houston, TX 77070			
Tom TURICCHI				
Parthasarathy RANGANATHAN				
Xiaoyun ZHU				
Vanish TALWAR				
Additional name(s) of conveying party(les) attached? Yes No	Additional name(s) and address(es) attached? Yes No			
3. Nature of Conveyance:				
	f Name Security Agreement Joint			
Other	•			
Execution Date(s):1/30/09, 1/30/09, 1/30/09, 1/30/09, 1/30/09	, 2/2/09 and 1/30/09			
4. Application number(s) or patent number(s):				
If this document is being filed together with a new application	on, execution date of the application is:			
A. Patent Application No.(s)				
Application No.: 12/366,939 Date Filed:	February 6, 2009			
Confirmation No.: 8889 B. Patent N	o.(s):			
Additional numbers attached? <u>NQ</u>				
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved:1_			
concerning document should be mailed:	7. Total Fee (37 CFR 3.41): \$40.00			
Records Manager	Enclosed			
Intellectual Property Administration HEWLETT-PACKARD COMPANY	<u>.</u>			
P.O. Box 272400	_X_Authorization to be charged to deposit account.			
Fort Collins, Colorado 80527-2400	8. Deposit Account Number: 08-2025			
9. Statement and signature.				
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.				
\wedge 1 1 1 1				
Ashok K, Mannava / Ashok K, Mannava February 6, 2009				
Name of Person Signing Signature Date				
Total number of pages including coversheet, attachments, and documents: 6				
Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:				
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1450				
Page 1 of 6				

Rev 10/06e (Recdasgn)

HEWLETT-PACKARD COMPANY intelloctual Property Administrator P.O. Box 272400 Fort Collins, Colorado 80327-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. _____200802287_1_

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 subsidieries 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:

POWER BUDGETING FOR A GROUP OF COMPUTER SYSTEMS Filing Date: February 6, 2009 Application No.: 12/366,939 and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-j-P's), divisionals, and renewals of and substitutes for said application for said Letters Patent, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefore; end any reissues, or reexaminations, or extensions of sold Letters Patent. I/we additionally authorize HPDC to file applications in my/our name for Letters Patent in any country, to be hold and enjoyed by HPDC, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters 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 liwe hereby covenant that liwe have full right to convey the entire interest herein assigned, and that if we have not executed and will not execute any agreement in conflict herewith, and I/we further coverant 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 Letters Patent, to HPDC, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HPDC, or to its nomince, all known facts respecting said invention(s) or improvement(s), said application and said Letters 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 paths 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 potent 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 Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States 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 Letters Patent for said invention(s) or improvement(s), including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this essignment. I/we further authorize and direct the attorneys of record to insert the serial number and filing date of said application now identified by the attorney docket number and title set forth above as soon as the same shall have been made known to them by the United States Patent and Trademork Office. IN WITNESS WHEREOF, I/wo hereunto set myleur hand(s) and seel(s): 2007-01-30 Date Assignment Signed Inventor's Signature (Sepi) 2009-01-30 Cilif McCorthy Inventor's Typed Name Date Application Signed State of) 55.: County of Balore me this day of , personally appeared Cliff McCarthy who is personally known or preved to me on the basis of satisfactory evidence to be the parson who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

My Commission Explose:

Notary Public

Page 1 of 3

Rev 10/00 (Amigramont)

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

PATENT APPLICATION

ATTORNEY DOCKET NO. ____200802287-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOS: I/we harounto set mylour band(s) and scalled

Inventor's Signature (Seal)		Date Assignment Signed
Zhikul Wang		
Inventor's Typed Name		Date Application Signed
State of)	
County of) 55.;)	
Before me this day of	, pemonally appoared	Zhikui Wang who is personally
known er proved to me on the basi assignment to be his/her free pet and	s of sotisfactory evidence to be the	porson who acknowledged the foregoing instrument of Nouvy Public. My Commission Explast:
Inventora Sighatura (Saat)		1/30/2009 Date Assignment Signed
Trey Miller Inventor's Typed Name	· .	1/30/2009 Date Application Signed
State of County of Before me thisday of known or proved to me on the basis assignment to be his/her free ect and) so.:) , personally appeared of sulfsigalogy evidence to be the dead.	Troy Miller who is personally person who acknowledged the foregoing instrument of
		Norary Funic My Commission Expires:
h		1/3º (2004
nventor's Signature (Seel)		Date Assignment Signed
Tom Turicchi nventor's Typed Name		1 /20/ 2584 Date Application Signed
State of) } 35,;	•
County of	j	
	, personally appeared	Tom Turkethi who is personally
lafore me thisday of nown or proved to me on the basis asignment to be his/her free act and o	of satisfactory evidence to be the	person who acknowledged the foregoing instrument of

HEWLETT-PACKARD COMPANY Intellectual Property Administrator P.O. 8ex 272400 Fort Collins, Colorado 80527-2400

PATENT APPLICATION

ATTORNEY DOCKET NO. ____200802287-1_

A.	SSIGNMENT OF PATENT.	APPLICATION (cont.)	
IN WITNESS WHEREOF,	, I/we hereunto set my/our hand	(5) and scal(6):	
The state of the s	•		7 ⁰⁷
Inventor's Signatura (Scal)	<u></u>	Date Assignment Signed	<u> </u>
		1/30/20 Date Assignment Signed 1/30/2	12 T
Zhikul Wang		1/30/2	~/
Inventor's Typed Name		Date Application Signed	,
State of	1		
•) nn.;		
County of)		
Before me thisday of	, personally appeared	Zhikul Wang	who is personally
known or proved to me on the bas assignment to be his/hor free act an	is of satisfactory evidence to be	the person who acknowledged the	foregoing instrument o
eesilan vertrin na illimitati itaa niit mili	1 0000,		
		Notary Public My Commission Explose	
Inventor's Signature (Soul)		Date Assignment Signed	
Tray Miller			
Inventor's Typed Name		Date Application Signed	<u></u> .
		nato Abbirration diffuen	
State of)		
•) 35,;		
County of	j		
Before me thisday of	, personally appeared	Troy.Miller	who is personally
known or proved to me on the basi	s of splisfactory evidence to be	he person who acknowledged the I	oragoing instrument of
assignment to be his/her free act and	daad,	·	
		Notary Public	
		My Commission Explana	
inventor's Signature (Seal)		Date Assignment Signed	<u> </u>
		sere castilianimit cultion	
<u>Tom Turicchi</u>			
Invantor's Typed Name		Date Application Signed	
			
State of ·	ì		
County of) <u>ns</u> .	•	
-	,		
Before me thisday of known or proved to me on the bush	, personally appeared	Tom Turischi	who is personally
essignment to be his/her free set and	, er experencily delicate to be t dead.	to hetable who beguowisaged the fo	regaing Instrument of
		NEUDY POLITIC	
	Ones o et o	My Commission Expins:	
Roy 10/00 (Assignment)	Page 2 of 3		

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

PATENT APPLICATION

ATTORNEY DOCKET NO. _____200802287_1

,	ASSIGNINENT OF PATENT A	PPLICATION (cont.)	-
IN WITNESS WHEREO	F, I/wo heraunto set my/our hend(s) and spo((s);	
- CAMBRES AND MY			
inventor's Signature (Seal)	-	Data Assignment Signo	d •
Parthasarothy Rongonathon		120 500	5-
Inventor's Typed Name		1-30-700° Date Application Signed	<u></u>
•	·	i ilibii-caon signor	
State of)		
	1.08 (
County of)		
Before me thisday of	, personally appeared	Partheearothy Ranganathan	who is personally
known or proved to me on the ba	idia of autiafactory avidence to be th	ic person who acknowledged ti	e foregoing instrument of
		Natocy Public My Commission Copi	<u></u>
•			
	·		•
inventor's Signoture (Sepi)		Date Assignment Signed	
Vicania 76.			
Xladyun Zhu Inventor's Typed Name		Date Application Signed	
		Dain Abbiication Signed.	
State of)		
County of -) cs.: `		
Before me this day of	, personally appeared als of salisfactory evidence to be the	Xinoyun Zhu	who is personally
ossignment to be higher free act an	as ar sensiencity exidence to be the d deed.	s becses was sekuomisalisi (ji	to tepolog lastrument of
		Notary Public My Commission Explini	
votail.		01/30/09	
Invantor's Signature (Seel)		Date Assignment Signed	
Vanish Tajwar		01/30/09	
Inventor's Typed Name	· · · · · · · · · · · · · · · · · · ·	Date Application Signed	-
State of)		
) ss.:		
County of)		
Before me thisday of	, personally appeared	Vonish Talwar	who is personally
known or proved to me on the bas essignment to be his/her free act and	, personally appeared is of satisfactory cyldence to be the I dead.	parson who acknowledged the	foragoing instrument of
		Newy Public	
Rev 10/08 (Asskonnen))	Page 3 of 3	My Commission Expires:	
THE TWO PROPERTY IN	· -g		

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

200802287-1 ATTORNEY DOCKET NO. __

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we herounte set my/our hand(e) and scal(s);

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_	
Inventor's Signoture (Sool)	<u> </u>	Date Assignment Signed
Parthanorshy Rangemethan		
Invantor's Typed Name		Data Application Signed
State of)) s s.:	
County of	j	
Before me tills day of P	erapnally appoored	Parthenometry Rangemethan who is personally the person who acknowledged the foregoing instrument of
known or proved to me on the basis of sa pasignment to be higher free set and deed.	alisfactory evidence to be	the person who acknowledged the foregoing institutions of
SERVING IN THE UNIVERSE HOP SET THE PERF.		Noting Public My Commission Expires:
a de		2/2/2009
Inventor's Signature (See)		2/2/2009 Date Assignment Signed
**************************************	•	3/-1. 6
Xlaoyun Zhu		Data Application Signed
Inventor's Typed Nemo		and the second of the second second second second
State of)	
Countly of) 55.:	
	/ neweestly concorad	Xippyun Zhu who is personally
known or proved to me on the basis of sa	stisfactory evidence to be	the parson who acknowledged the foregoing instrument of
assignment to be his/her free act and deed.		•
		Noissy Public My Commission Explose
Inventor's Signature (Sepi)	<u> </u>	Data Assignment Signad
Venieh Teiwar		
Inventor's Typed Name		Date Application Signed
State of) az.:)	
County of)	
Before me thisdby of P	eroonally appeared	Vanish Talwar who is personally
known or proved to me on the basis of se assignment to be his/her free out and deed.	illustratory evidence to be i	the person who acknowledged the foregoing instrument of
		Notary Public
	Page 3 of 3	ary Commission Expired
Ray Tolos (Assignment)	· - 	

RECORDED: 02/06/2009