1-31-92 F	01-07-	2004 U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
п		Attorney Docket No. 200208871-1
Name of conveying party(ies):	102639	
(a) Michael Suekawa		HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.
(b) Kwang H. Kim		20555 SH 249
(c) Bradley D. Blackwood		Houston, TX 77070
(d) Robert Jetter		
1 5 04		
Additional name(s) of conveying party(ies) attack	ned Yes X No	Additional name(s) & address(es) attached?Yes_X_ No
3. Nature of Conveyance:		0 4
X Assignment	Merger	Change of Name
Security Agreement	Other	Change of Name R
Execution Date(s): (a) 11/18/2003; (b)	11/05/2003: (c)	11/20/2003: (d) 11/19/2003
4. Application number(s) or patent num		229
If this document is being filed together	with a new appli	cation, execution date of the application is:
A. Patent Application No.(s)		B. Patent No.(s)
Application No.: 10/722,338	Date Filed: No	ov. 25. 2003
Confirmation No.:		ers attached? NO
		
concerning document should be mai	•	6. Total number of applications and patents involved: 1
Records Manager		7. Total Fee (37 CFR 3.41): \$40.00
Intellectual Property Administration HEWLETT-PACKARD COMPANY		Enclosed
P.O. Box 272400 Fort Collins, Colorado 80527-2400		X Authorization to be charged to deposit account.
		8. Deposit Account Number: 08-2025
	DO NOT US	THIS SPACE
9. Statement and signature.		
To the best of my knowledge and beli true copy of the original document.	ef, the foregoing i	information is true and correct and any attached copy is a
Ken J. Koestner	Ken I	Dec 31, 2003
Name of Person Signing	Signature	Date
Total nur	nber of pages includ	ling cover sheet, attachments, and document: 5
OMB No. 0651-0011 (exp. 4/94)		
1 1	Do Not detac	ch this portion
Mail document to be recorded with req		information to: ent Recordation Services
) D	irector of the US Pa	tent and Trademark Office Box 1450
		VA 22313-1450

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

PATENT APPLICATION

ATTORNEY DOCKET NO. 200208871-1

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 subsidiaries 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

ASSE SYST	MBLY FOR TOOLLESS INSTALLATION AND LOCKING OF A PRINTED CIRCUIT CARRIER TO A
Filing	date: NOVEMBER 25, 2003 Application No.: 10/722,338
contir Letter	the invention(s) and improvement(s) set forth therein, and any and all continuations, nuations-in-part (C-I-P's), divisionals, and renewals of and substitutes for said application for said s Patent, and any and all Letters Patent of the United States and of countries foreign thereto which be granted thereon or therefor; and any reissues, or reexaminations, or extensions of said Letters t.
	l/we additionally authorize HPDC to file applications in my/our name for Letters 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 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 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 Letters 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 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 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 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 assignment.

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 Trademark Offic

The country to them by the office of aten and the	rademark Office.
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) and seal(s):	
Aluful Surliura Date Assignment Signed: 1//18/	03
Inventor's Signature (Seal)) j
Inventor's Typed Name: Mike Suekawa Date Application Signed:	11/18/03
som of California	, ,
County of Santa Clara) ss.:	
Before me this 18 day of November, personally appeared Mike Suekawa	who is
personally known or proved to me on the basis of satisfactory evidence to be the person v	vho acknowledged the foregoing
instrument of assignment to be his/her free act and deed.	eant Starta
SUSAN M. STANTON	
	mission expires:
Commission # 1293621	
Notary Public - California	
Rev 10/03 (Acign) My Corrilles Page Two Floor Additional Inventor(s) Signature(s))	Page 1 of 3

HEWLETT-PACKARD COMPANY Intellectual Property Administration P. O. Box 272400 Fort Collins, Colorado 80527-2400 PATENT APPLICATION
ATTORNEY DOCKET NO. 200208871-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I/we he	reunto set my/our hand(s) and seal(s);	
Kwang Ho Kin	Date Assignment Signed:	11/5/03
Inventor's Signature (Seal)		1. 1
Inventor's Typed Name: Kwang Kim	Date Application S	Signed: 11/5/03
State of Calibornia County of Alamedae	1	
County of Algredon) ss.:)	
Before me this $5^{\mathcal{H}}$ day of \mathcal{N}	nlember, personally appeared Kwang the basis of satisfactory evidence to be the	Kim who is person who acknowledged the foregoing
	MITA PATEL SCOMM. # 1442909 SCOMM. # 1442909 ALAMEDA COUNTY ALAMEDA COUNTY My Comm. Exp. 5ep. 30, 2007 My Comm. Exp. 5ep. 30, 2007	Notary Public My commission expires: 9/30/07
	Date Assignment Signed:	·
Inventor's Signature (Seal)		
Inventor's Typed Name: Bradley D. Black	wood Date Application 9	Signed:
State of)	
County of) ss.:)	
Before me this day of personally known or proved to me on instrument of assignment to be his/her fr	, personally appearedBradley the basis of satisfactory evidence to be the ee act and deed.	r D. Blackwood who is person who acknowledged the foregoing
		Notary Public
		My commission expires:
	Date Assignment Signed:	
Inventor's Signature (Seal)		
Inventor's Typed Name: Robert Jetter	Date Application S	igned:
State of)	
County of) ss.:)	
	, personally appeared Robert the basis of satisfactory evidence to be the page act and deed.	
		Notary Public My commission expires:

(Use Page Three For Additional Inventor(s) Signature(s))

Rev 10/03 (Assign)

PATENT

Page 2 of 3

REEL: 014847 FRAME: 0963

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

	PATEN	T APPLICATION
TTORNEY	DOCKET NO.	200208871-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

	Date Ass	gnment Signed:	
Inventor's Signature (Seal)			
Inventor's Typed Name: Kwang Kim		Date Application Signed:	
State of)		
_) ss.:		
County of)		
Before me this day of	, personall	appeared Kwang Kim	who i
personally known or proved to me on instrument of assignment to be his/her fr	the basis of satisfactory	evidence to be the person who acknowledge	edged the foregoin
-			
		Notary Public	
		My commission expires:	
	•		
		gnment Signed: 11/20/03	
1 5- 1/ Stub	Data Ace	onment Signed: 11/70/03	
- //		*	
nventor's Typed Name: Bradley D. Black	wood	Date Application Signed:	63
State of Culifornia)	,	
County of Santa Clara) ss.:		
County of April ~	,		
Before me this 20 day of 100	/- , personally	appeared <u>Bradley D. Blackwood</u>	who is
personally known or proved to me on	the basis of satisfactory	evidence to be the person who acknowle	edged the foregoing
nstrument of assistance to be his for the	CANCHOLA	- lep	
	# 1324976		<u> </u>
	c - California	Noury Public	
	ra County	My commission expires:	
	res Oct 13, 2005		
1			
nventor's Signature (Seal)	Date Assi	gnment Signed:	
nventor's Typed Name: Robert Jetter		Date Application Signed:	
Trybed Name. The State of the S		Date Application Signed	
State of)		
County of) ss.:)		
Before me this day of		appeared Robert Jetter evidence to be the person who acknowle	who is
nstrument of assignment to be his/her from		evidence to be the person who acknowle	auged the foregoing
		Notary Public	
		Notary Public My commission expires:	
		, Samuelan Capitae.	
	e Three For Additional Invento		Page 2 of 33

Rev 10/03 (Assign)

HEWLETT-PACKARD COMPANY Intellectual Property Administration P. O. Box 272400 Fort Collins, Colorado 80527-2400 PATENT APPLICATION
ATTORNEY DOCKET NO. 200208871-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

	Date Assignment Signed:
nventor's Signature (Seal)	
nventor's Typed Name: Kwang Kim	Date Application Signed:
tate of)
ounty of) ss.:)
Before me this day of	, personally appeared <u>Kwang Kim</u> who in the basis of satisfactory evidence to be the person who acknowledged the foregoin
strument of assignment to be his/her	
	Notary Public
	My commission expires:
	Date Assissment Sirond
nventor's Signature (Seal)	Date Assignment Signed:
nventor's Typed Name: Bradley D. Blad	ckwood Date Application Signed:
tate of)
) ss.:
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Before me this day of	, personally appeared <u>Bradley D. Blackwood</u> who in the basis of satisfactory evidence to be the person who acknowledged the foregoin
Before me this day of ersonally known or proved to me or	, personally appeared <u>Bradley D. Blackwood</u> who in the basis of satisfactory evidence to be the person who acknowledged the foregoin free act and deed.
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Before me this day of ersonally known or proved to me or	, personally appeared <u>Bradley D. Blackwood</u> who in the basis of satisfactory evidence to be the person who acknowledged the foregoin free act and deed. Notary Public My commission expires:
Before me this day of ersonally known or proved to me or estrument of assignment to be his/her	, personally appeared Bradley D. Blackwood who in the basis of satisfactory evidence to be the person who acknowledged the foregoin free act and deed. Notary Public My commission expires: Date Assignment Signed:
Before me this day of ersonally known or proved to me or estrument of assignment to be his/her of eventor's Signature (Seal)	, personally appeared Bradley D. Blackwood who in the basis of satisfactory evidence to be the person who acknowledged the foregoin free act and deed. Notary Public My commission expires: Date Assignment Signed:
Before me this day of ersonally known or proved to me or estrument of assignment to be his/her of eventor's Signature (Seal)	, personally appeared Bradley D. Blackwood who in the basis of satisfactory evidence to be the person who acknowledged the foregoin free act and deed. Notary Public My commission expires: Date Assignment Signed: 1-9-03
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Before me this day of ersonally known or proved to me or estrument of assignment to be his/her evertor's Signature (Seal) eventor's Typed Name: Robert Jetter tate of Call fameda ounty of Alameda Before me this 19 day of No.	
Before me this day of ersonally known or proved to me or strument of assignment to be his/her vertor's Signature (Seal) ventor's Typed Name: Robert Jetter atte of Call fall of proved to me or pr	personally appeared Bradley D. Blackwood who in the basis of satisfactory evidence to be the person who acknowledged the foregoin free act and deed. Notary Public My commission expires: Date Assignment Signed: 1-9-03 Date Application Signed: 1-9-03) ss.: Pembel 2003 Pembel 2003 Pembel 2003 Personally appeared Robert Jetter who is the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evide
Before me this day of ersonally known or proved to me or estrument of assignment to be his/her evertor's Signature (Seal) eventor's Typed Name: Robert Jetter tate of Call fameda ounty of Alameda Before me this 19 day of No.	personally appeared Bradley D. Blackwood who in the basis of satisfactory evidence to be the person who acknowledged the foregoin free act and deed. Notary Public My commission expires: Date Assignment Signed: 1-9-03 Date Application Signed: 1-9-03) ss.: Pembel 2003 Pembel 2003 Pembel 2003 Personally appeared Robert Jetter who is the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evidence to be the person who acknowledged the foregoing many than the basis of satisfactory evide
Before me this day of ersonally known or proved to me or estrument of assignment to be his/her and the control of t	personally appeared Bradley D. Blackwood who in the basis of satisfactory evidence to be the person who acknowledged the foregoin free act and deed. Notary Public My commission expires:
Before me this day of ersonally known or proved to me or estrument of assignment to be his/her avertor's Signature (Seal) eventor's Typed Name: Robert Jetter tate of Call factor of Alameda Before me this 19 day of Notes ersonally known or proved to me or strument of assignment to be his her file.	Date Assignment Signed: Date Application Signed: Date Application Signed: Date Application Signed: Notary Public My commission expires: Date Application Signed: Notary Public My commission expires: Date Application Signed: Notary Public My commission expires: Notary Public My commission expires: Notary Public Notary Public Notary Public Who is Notary Public Notary Public My commission expires: Notary Public Notary Public My commission expires: Notary Public My commission expires: Notary Public My commission expires: Notary Public
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Before me this day of ersonally known or proved to me or estrument of assignment to be his/her wentor's Signature (Seal) Eventor's Typed Name: Robert Jetter tate of Call farming and the county of Alameda Before me this 19 day of Novembersonally known or proved to me or strument of assignment to be fisher in the county of Alameda I.S. PAHWA COMM. #131620	personally appeared Bradley D. Blackwood who in the basis of satisfactory evidence to be the person who acknowledged the foregoin free act and deed. Notery Public My commission expires:

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