1-31-92	0-21-2002		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
			Attorney Docket No. 100203630-1
	102254691		ess of receiving party(ies):
1. Name of conveying party(ies):	5.12		
,	502		KARD COMPANY perty Administration
Ruth Rosenberg		P.O. Box 2724	
Venkatesh Gururaja Rao		Fort Collins, Co	olorado 80527-2400
Glenn Clifford Steiner			
James E. Patterson			
Philippe Debaty			
Additional name(s) of conveying party(ies) attache	od <u>Y</u> es <u>No</u> A	Additional name(s) & a	address(es) attached?YesX No
3. Nature of Conveyance:			
X Assignment	Merger		Change of Name
Security Agreement	Other		
Execution Date(s): 4/29/02; 4/30/02; 6.	/7/02; 6/10/02; 6/	17/02; 7/18/02;	7/15/02; 8/1/02
4. Application number(s) or patent numb	per(s):		NVN 100 100
If this document is being filed together	with a new applica	ition, execution d	
A. Patent Application No.(s)			B. Patent N⊕(s) ■ □
Application No.: 10/135,720	Date Filed: 04/3		ON ON
Confirmation No.:	Additional numbers	s attached? <u>NO</u>	-
5. Name and address of party to whom concerning document should be maile	ed:		
Records Manager	7	. Total Fee (37 C	FR 3.41): \$40.00
Intellectual Property Administration HEWLETT-PACKARD COMPANY P.O. Box 272400		Enclose	d
		X Authorization to be charged to deposit account.	
Fort Collins, Colorado 80527-24	100		
	8	. Deposit Accou	nt Number: _08-2025
	DO NOT USE T	THIS SPACE	
9. Statement and signature.		to an attack to the second	and correct and any attached carry is -
To the best of my knowledge and belie true copy of the original document.	f, the foregoing inf	ormation is true a	and correct and any attached copy is a
	//.	\sim	\mathbf{i}
Ann Jesus	Ma	Acc	Oct 08, 2002
Name of Person Signing Signature		/	Date
Total num	ber of pages includin	g cover sheet, atta	chments, and document: <u>11</u>
OMB No. 0651-0011 (exp. 4/94)	······································		
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01 FC:8021 40.00 CH		, D.C. 20231	
		,	
Rev 05/02 (Recdasgn)	/		PATENT

RECORDATION FORM COVER SHEET

PATENTS ONLY

Attorney Docket No. 100203630-1

1. Name of conveying party(ies):	2. Name and address of receiving party(ies):			
Shane Konsalla	HEWLETT-PACKARD COMPANY			
Grady Gordon Cooper	Intellectual Property Administration P.O. Box 272400			
Megan Grey Taylor	Fort Collins, Colorado 80527-2400			
Staci Hartman				

Page 2 of 2

ASSIGNMENT OF PATENT APPLICATION

I/We, the undersigned (each) have agreed and hereby agree to assign to HEWLETT-PACKARD COMPANY, a Delaware corporation having its principal place of business in Palo Alto, California, (hereinafter HP), in furtherance of my/our obligations to HP, and do hereby assign and transfer to HP, 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:

SERVICE DELIVERY SYSTEMS AND METHODS

Filing date: April 30, 2002

Application No.: 10/135,720

and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part (C-I-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 therefor; and any reissues, or reexaminations, or extensions of said Letters Patent.

I/we additionally authorize HP to file applications in my/our name for Letters Patent in any country, to be held and enjoyed by HP, 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 HP, its successors, assigns, nominees or legal representatives, and I/we agree to communicate to HP, 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 HP, 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 HP;

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 HP, 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 HP attorneys 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 Office.

IN WITNESS WHEREOF, I/we hereunto	o set my/our hand(s) and se	al(s):	1	1	
15 A A	Date Assignment Signed:	4	130	2002	
nventor's Signature (Seal)			7		.
nventor's Typed Name: Wesley Chan	Date Applicatio	n Signed:	April 2	9, 2002	
State of					

State of	'
	}
County of)

Before me this ______day of ______, personally appeared ______Wesley Chan _______who is personally known or proved to me on the basis of satisfactory evidence to be the person who acknowledged the foregoing instrument of assignment to be his/her free act and deed.

Notary Public My commission expires:

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

ss.:

Page 1 of 10 PATENT REEL: 013387 FRAME: 0194

When recorded please return 1	to:
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ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set	my/our hand(s) and seal(s):
Inventor's Signature (Seal)	Date Assignment Signed: 10,02 Date Application Signed: April 29, 2002
Inventor's Typed Name: Ruth Rosenberg	Date Application Signed: April 29, 2002
State of	
) ss.: County of	
Before me this day of is personally known or proved to me on the basis o instrument of assignment to be his/her free act and de	of satisfactory evidence to be the person who acknowledged the foregoin
	Notary Public My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed:
Inventor's Typed Name: Venkatesh Gururaja Rao	Date Application Signed: April 29, 2002
State of)	
) ss.: County of)	
is personally known or proved to me on the basis o instrument of assignment to be his/her free act and de	, personally appeared <u>Venkatesh Gururaja Rao</u> who of satisfactory evidence to be the person who acknowledged the foregoin- eed. <u>Notary Public</u> My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed:
Inventor's Typed Name: Glenn Clifford Steiner	Date Application Signed: April 29, 2002
State of)) ss.:	
County of)	
Before me this day of is personally known or proved to me on the basis or instrument of assignment to be his/her free act and de	f satisfactory evidence to be the person who acknowledged the foregoing
	Notary Public My commission expires:
(Use Page Three For Ad	Iditional Inventor(s) Signature(s) Page 2 of 10

Rev 10/01 (Assign)

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PATENT APPLICATION ATTORNEY DOCKET NO. 100203630-1

PATENT

REEL: 013387 FRAME: 0196

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set my/our hand(s) and seal(s):

		Date Assignment Sig	jned:			
Inventor's Signature (Seal)						
Inventor's Typed Name: Ruth Rose	nberg	Date Ap	pplication Signe	ed: April 2	9, 2002	
State of)) ss.:					
County of)					
Before me this day of is personally known or proved to instrument of assignment to be his	me on the basis of	satisfactory evidence to	Ruth Rosenbe be the person	erg i who ackr	nowledged th	who the foregoing
				y Public ommission exp	pires:	- M
w	still -			A		
Inventor's Signature (Seal)		Date Assignment Sig	ned:O (ANG	2002	
Inventor's Typed Name: Venkatesh	Gururaja Rao	Date Ap	plication Signe	_{d:} April 2	29, 2002	
State of)					
County of) ss.:)					
Before me this day of is personally known or proved to instrument of assignment to be his,	me on the basis of	satisfactory evidence to	Venkatesh Gu be the person	ruraja Rao who ackn	nowledged th	who e foregoing
			Notar	y Public		
			My co	mmission expi	ires:	
Inventor's Signature (Seal)		Date Assignment Sigr	ned:			
Inventor's Typed Name: Glenn Cliffe	ord Steiner	Date Ap	plication Signed	_{d:} April 29	9, 2002	
State of	}					
County of) ss.:)					
Before me this day of is personally known or proved to r instrument of assignment to be his/	ne on the basis of s	satisfactory evidence to	Glenn Clifford be the person	Steiner who ackno	owledged the	
			Notary My co	Public mmission expir	res:	
(U:	se Page Three For Addit	ional Inventor(s) Signature(s)))		Page	3 of 10
Rev 10/01 (Assign)						

When recorded please return to:

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

PATENT APPLICATION ATTORNEY DOCKET NO. 100203630-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set my/our hand(s) and seal(s):

	Date Assignment Signed:
Inventor's Signature (Seal)	
Inventor's Typed Name: Ruth Rosenberg	Date Application Signed: April 29, 2002
State of)	
) ss.: County of	
Before me this day of is personally known or proved to me on the basis of s instrument of assignment to be his/her free act and deed	satisfactory evidence to be the person who acknowledged the foregoing
	Notary Public
	My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed:
Inventor's Typed Name: Venkatesh Gururaja Rao	Date Application Signed: April 29, 2002
State of)	
) ss.:	
County of)	
Before me this day of, is personally known or proved to me on the basis of s instrument of assignment to be his/her free act and deed	atisfactory evidence to be the person who acknowledged the foregoing
	Notary Public
	My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed: Apr. 129, 2002
Inventor's Typed Name: Glenn Clifford Steiner	Date Application Signed: April 29, 2002
State of)	
) ss.: County of)	
Before me this day of, s personally known or proved to me on the basis of so nstrument of assignment to be his/her free act and deed.	atisfactory evidence to be the person who acknowledged the foregoing
	Notary Public
	My commission expires:

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

ı,

Page 4 of 10

PATENT APPLICATION ATTORNEY DOCKET NO. 100203630-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set my/our hand(s) and seal(s):

James 2 Potters	Date Assignment Signed: 100 17, 2002
viventor's Signature (Seal)	Date Assignment Signed: 100 17, 2002
Inventor's Typed Name: James E. Patterson	Date Application Signed April 29, 2002
State of)	
) ss.: County of	
Before me this day of is personally known or proved to me on the basis of sa instrument of assignment to be his/her free act and deed.	, personally appeared <u>James E. Patterson</u> who atisfactory evidence to be the person who acknowledged the foregoing
	Notary Public My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed:
-	Date Application Signed April 29, 2002
State of)) ss.:	
County of)	
Before me this day of is personally known or proved to me on the basis of sa instrument of assignment to be his/her free act and deed.	, personally appeared <u>Philippe Debaty</u> who tisfactory evidence to be the person who acknowledged the foregoing
	Notary Public
	My commission expires:
	Date Assignment Signed:
Inventor's Signature (Seal)	
Inventor's Typed Name: Shane Konsalla	Date Application Signed April 29, 2002
State of)	
) ss.: County of)	
Before me this day of is personally known or proved to me on the basis of sat instrument of assignment to be his/her free act and deed.	, personally appeared <u>Shane Konsalla</u> who tisfactory evidence to be the person who acknowledged the foregoing
	Notary Public
	My commission expires:

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

Page 5 of 10

When recorded please return to:		PATENT APPLICATION
HEWLETT-PACKARD COMPANY Intellectual Property Administration		ATTORNEY DOCKET NO. 100203630-1
P. O. Box 272400 Fort Collins, Colorado 80527-2400		
	ASSIGNMEN	T OF PATENT APPLICATION (cont.)
	ASSIGNMEN	
IN WITNESS WHEREOF, I we h	iereunto set i	my/our hand(s) and seal(s):
Inventor's Signature (Seal)		Date Assignment Signed:
	erson	Date Application Signed April 29, 2002
State of)	
))ss.:	
County of)	
Before me this day of		, personally appeared James E. Patterson wh
is personally known or proved to me instrument of assignment to be his/her		satisfactory evidence to be the person who acknowledged the foregoin ed.
		Notary Public
		My commission expires:
Inventor's Signature (Seal)		Date Assignment Signed: 7/15/2002 Date Application Signed April 29, 2002
State of	, }	
) ss.:	
County of)	
Before me this day of		, personally appeared _Philippe Debaty who
is personally known or proved to me instrument of assignment to be his/her		satisfactory evidence to be the person who acknowledged the foregoing
		Notary Public
		My commission expires:
Inventor's Signature (Seal)		Date Assignment Signed:
Inventor's Typed Name: Shane Konsalla		Date Application Signed April 29, 2002
State of)	
County of) ss.:)	
Before me this day of		, personally appeared Shane Konsalla who
s personally known or proved to me of nstrument of assignment to be his/her t		_, personally appeared <u>Shane Konsalla</u> who satisfactory evidence to be the person who acknowledged the foregoing d.
		Notary Public
		My commission expires:

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

Page 6 of 10

Rev 10/01 (Assign2)

When recorded please return to:

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

PATENT APPLICATION

ATTORNEY DOCKET NO. 100203630-1

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set my/our hand(s) and seal(s):

	Date Assignment Signed:
Inventor's Signature (Seal)	
Inventor's Typed Name: James E. Patterson	Date Application Signed April 29, 2002
State of) ss	
County of)	
Before me this day of is personally known or proved to me on the b instrument of assignment to be his/her free act a	, personally appeared <u>James E. Patterson</u> who asis of satisfactory evidence to be the person who acknowledged the foregoing and deed.
	Notary Public My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed:
Inventor's Typed Name: Philippe Debaty	Date Application Signed April 29, 2002
State of)	
) ss	.:
County of }	
	Notary Public My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed: 6 //0 /0 ·2
· · · · · · · · · · · · · · · · · · ·	
State of)) ss	
County of)	
Before me this day of is personally known or proved to me on the ba instrument of assignment to be his/her free act a	, personally appeared <u>Shane Konsalla</u> who asis of satisfactory evidence to be the person who acknowledged the foregoing and deed.
	Notary Public My commission expires:
(Use Next Page Rev 10/01 (Assign2)	e For Additional Inventor(s) Signature(s)) Page 7 of 10

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PATENT APPLICATION

ATTORNEY DOCKET NO. 100203630-1

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

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set my/our hand(s) and seal(s):

Inventor's Signature (Seal)	Date Assignment Signed: June 7, 2002
Inventor's Typed Name: Grady Gordon Cooper	Date Application Signed
State of)	
) ss.: County of	
Before me this day of is personally known or proved to me on the basis of instrument of assignment to be his/her free act and de	, personally appeared <u>Grady Gordon Cooper</u> who of satisfactory evidence to be the person who acknowledged the foregoing leed.
	Notary Public My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed:
-	Date Application Signed
State of)) ss.:	
County of)	
instrument of assignment to be his/her free act and de	Notary Public My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed:
Inventor's Typed Name: Staci Hartman	Date Application Signed
State of)	
) ss.: County of)	
	, personally appeared <u>Staci Hartman</u> who of satisfactory evidence to be the person who acknowledged the foregoing aed.
	Notary Public My commission expires:
(Use Next Page For /	Additional Inventor(s) Signature(s)) Page 8 of 10

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PATENT APPLICATION

ATTORNEY DOCKET NO. 100203630-1

PATENT REEL: 013387 FRAME: 0202

ASSIGNMENT OF PATENT AP	PPLICATION (cont.)
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IN WITNESS WHEREOF, I we hereunto set my/our hand(s) and seal(s):

	Date Assignment Signed:
Inventor's Signature (Seal)	
Inventor's Typed Name: Grady Gordon Cooper	Date Application Signed April 30, 2002
State of	
) ss.: County of	
Before me this day of is personally known or proved to me on the basis o instrument of assignment to be his/her free act and de	, personally appeared <u>Grady Gordon Cooper</u> who f satisfactory evidence to be the person who acknowledged the foregoing red.
	Notary Public My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed: $7/S/02$
Inventor's Typed Name: Megan Grey Taylor	Date Application Signed April 29, 2002
State of	
) ss.: County of	
Before me this day of is personally known or proved to me on the basis or instrument of assignment to be his/her free act and de	, personally appeared <u>Megan Grey Taylor</u> who f satisfactory evidence to be the person who acknowledged the foregoing ed.
	Notary Public
	My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed:
Inventor's Typed Name: Staci Hartman	Date Application Signed April 29, 2002
	Date Application Signed
State of)) ss.:	
County of)	
Before me this day of is personally known or proved to me on the basis of instrument of assignment to be his/her free act and de	f satisfactory evidence to be the person who acknowledged the foregoing
	Notary Public My commission expires:
(Use Next Page For / Rev 10/01 (Assign2)	Additional Inventor(s) Signature(s)) Page 9 of 10

When recorded	please	return	to:
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PATENT APPLICATION

ATTORNEY DOCKET NO. 100203630-1

PATENT

REEL: 013387 FRAME: 0203

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

ASSIGNMENT OF PATENT APPLICATION (cont.)

IN WITNESS WHEREOF, I we hereunto set my/our hand(s) and seal(s):

Levenski Gerenary (Ocelli	Date Assignment Signed:
Inventor's Signature (Seal)	April 30, 2002
Inventor's Typed Name: Grady Gordon Cooper	Date Application Signed April 30, 2002
State of)) ss.:	
County of)	
Before me this day of is personally known or proved to me on the basis of instrument of assignment to be his/her free act and de	, personally appeared <u>Grady Gordon Cooper</u> who of satisfactory evidence to be the person who acknowledged the foregoing eed.
	Notary Public My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed:
	Data Application Signed April 29, 2002
Inventor's Typed Name: Megan Grey Taylor	Date Application Signed April 29, 2002
State of) > ss.:	
County of	
Before me this day of is personally known or proved to me on the basis o instrument of assignment to be his/her free act and de	, personally appeared <u>Megan Grey Taylor</u> who If satisfactory evidence to be the person who acknowledged the foregoing sed.
	Notary Public My commission expires:
Inventor's Signature (Seal)	Date Assignment Signed: 7/8/02
Inventor's Typed Name: Staci Hartman	Date Application Signed April 29, 2002
State of)	
) ss.: County of	
Before me this day of is personally known or proved to me on the basis o instrument of assignment to be his/her free act and de	f satisfactory evidence to be the person who acknowledged the foregoing
	Notary Public My commission expires:
(Use Next Page For . Rev 10/01 (Assign2)	Additional Inventor(s) Signature(s)) Page 10 of 10

RECORDED: 10/15/2002