## PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Assignee of Richard Dee previously recorded on Reel 028144 Frame 0856. Assignor(s) hereby confirms the ASSIGNMENT OF RICHARD DEE'S INTEREST TO QUANTUM CORPORATION.

### **CONVEYING PARTY DATA**

Name	Execution Date
Paul W Poorman	04/22/2013
Geoff Spratt	04/22/2013
Mike Alan Holmberg	04/22/2013
Brian Brong	04/22/2013
Lawrence A Hansen	04/23/2013
Richard Dee	04/10/2013

### **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

Name:	Quantum Corporation
Street Address:	1650 Technology Drive, Suite 700
City:	San Jose
State/Country:	CALIFORNIA
Postal Code:	95110

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13432130

### **CORRESPONDENCE DATA**

**Fax Number**: 9707784063

Correspondence will be sent via US Mail when the fax attempt is unsuccessful. Phone: 908 898-4235 Email: pto.assignments@hp.com Correspondent Name: **Hewlett-Packard Company** Address Line 1: 3404 E. Harmony Road MS 35 Address Line 2: Intellectual Property Administration Fort Collins, COLORADO 80528 Address Line 4: NAME OF SUBMITTER: Peggy Oyama Signature: /Peggy Oyama/ Date: 04/25/2013 Total Attachments: 12 source=82899734\_corrective#page1.tif source=82899734 corrective#page2.tif source=82899734\_corrective#page3.tif source=82899734\_corrective#page4.tif source=82899734\_corrective#page5.tif source=82899734\_corrective#page6.tif source=82899734\_corrective#page7.tif source=82899734\_corrective#page8.tif source=82899734\_corrective#page9.tif source=82899734\_corrective#page10.tif source=82899734\_corrective#page11.tif source=82899734\_corrective#page12.tif

HEWLETT-PACKARD COMPANY intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

PATENT APPLICATION

RECORD ID:	82899734

#### ASSIGNMENT OF PATENT APPLICATION

ASSIGNMENT OF PATENT A	
I/We, the undersigned (each) have agreed and hereby agreceipt of which is hereby acknowledged, and in furtherance DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership to Texas, (hereinafter HPDC), and to its subsidiaries and affiliates, to assigns, the entire right, title and interest, including the right of pentitled:	of my/our obligations to HEWLETT-PACKARD laving its principal place of business in Houston, assign and transfer to HPDC, its successors and
REDUCTION OF DEGRADATION OF MAGNETIC TAPE APPARA	nus
Filing Date: Mar 28, 2012 Applic	ation No.: 13/432130
and the invention(s) and improvement(s) set forth therein, and any a divisionals, and renewals of and substitutes for said application for countries thereto which may be granted thereon or therefore; and an Patent.	said Patent, and any and all other Patent of any
I/we additionally authorize HPDC to file applications in my/our nar by HPDC, its successors, assigns, nominees or legal representatives Patent respectively may be granted, reissued or extended, as fully an enjoyed by me/us had this assignment, and transfer not been made;	to the full end of the term or terms for which said
AND I/we hereby covenant that I/we have full right to convey the executed and will not execute any agreement in conflict herewith, and time a request is made, and without undue delay, execute and deliver perfect the title to said invention(s) or improvement(s), said application nominees or legal representatives, and I/we agree to communicate to said invention(s) or improvement(s), said application and said Patent, papers, to execute all disclaimers and divisionals, continuations, C-lrightful oaths and declarations, and generally to do everything possib and legal representatives to obtain and enforce, for its or their own ber improvement(s) in any and all countries provided the expenses we cooperation and assistance are paid by HPDC;	I/we further covenant and agree that I/we will, each all such papers as may be necessary or desirable to and said Patent, to HPDC, its successors, assigns, HPDC, or to its nominee, all known facts respecting to testify in any legal proceedings, to sign all lawful -P's, reissue and foreign applications, to make all le to aid HPDC, its successors, assigns, nominees lefit, proper patent protection for said invention(s) or
AND I/we hereby authorize and request the official of any countrapplications as aforesaid, to issue to HPDC, as assignee of the entire invention(s) or improvement(s) which may be issued and granted accordance with the terms of this assignment.	right, title and interest, any and all Patent for said
I/we further authorize and direct the attorneys of record to ins application for Patent, now identified by the Record ID and title set forth known to them.	ert the filing date and application number of said above, as soon as the same shall have been made
IN WITNESS WHEREOF, I/we hereunto set my/our hand(s) an	d seal(s):
Inventor's Signature	
	Notice:
Paul W Poorman Inventor's Typed Name Inventor's Signature	
Geoff Spratt	
Inventor's Typed Name	

Rev 1/2013 (Assignment)

Page 1 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

#### PATENT APPLICATION

NTENT APPLICATION (cont.)	
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HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

### PATENT APPLICATION

82899734

RECORD ID:

ASSIGNMENT OF PATENT APPLICATION (cont.)		
Inventor's Signature	Date	
Mike Alan Holmberg		
Inventor's Typed Name	-	
Januara A. Manner Inventor's Signature	April 23, 2013	
Lawrence A Hansen	_	
Inventor's Typed Name		
Invested Constant		
Inventor's Signature	Date	
Brian Brong Inventor's Typed Name	-	
inventor's Typeu tvarie		
Inventor's Signature	Date	
Inventor's Typed Name	-	
Inventor's Signature	Date	
· ·	Date	
Inventor's Typed Name		
Inventor's Signature	Date	
Inventor's Typed Name		

Atty. Docket No.: 82899734

## ASSIGNMENT

For One Dollar (\$1.00) and other good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, I, the undersigned, **Richard Dee**, of 887 Dearborn Place, Boulder, CO 80303, USA hereby assign all right, title and interest to **QUANTUM CORPORATION**, a Delaware Corporation having a principle place of business at 1650 Technology Drive, Suite 700, San Jose, CA 95110, USA, its successors and assigns, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions in

### Reduction of Degradation of Magnetic Tape Apparatus

set forth in the Patent Application No. 13/432130, filed March 28, 2012 for United States Letters Patent, said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in countries foreign to the United States, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patents and reissues and extension of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer all said Letters Patent to said assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this

Atty. Docket No.: 82899734

assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and in substance which may be requested by said assignee, to furnish said assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

I further authorize and direct the attorneys of record to insert the application number and filing date of the 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.

(1) 4/10/2013

Date

Richard Dee

### PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMI SSI ON TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSI GNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Paul Poorman	03/15/2012
Geoff Spratt	03/20/2012
Mike Holmberg	03/20/2012
Lawrence Hansen	03/20/2012
Brian Brong	03/20/2012
Richard Dee	03/27/2012

#### **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:	13432130	

#### **CORRESPONDENCE DATA**

 Fax Number:
 (970)778-4063

 Phone:
 (541)715-8443

 Email:
 terri.tuma@hp.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it

will be sent via US Mail.

Correspondent Name: Hewlett-Packard Company
Address Line 1: 3404 E. Harmony Road MS 35
Address Line 2: Intellectual Property Administration
Address Line 4: Fort Collins, COLORADO 80528

NAME OF SUBMITTER:	Kubae Kim
Signature:	/Kubae Kim/
Date:	05/02/2012

**Total Attachments: 5** 

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#### **RECEIPT INFORMATION**

EPAS I D: PAT1943339 Receipt Date: 05/02/2012

Fee Amount: \$40

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Read Mail Stop 35 Fort Collins, Colorado 80528

Rev 09/11 (Assignment)

RECORD ID:	82899734

#### 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 application for Letters Patent of the United States entitled:

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 application for Letters Patent of the United State entitled:	
REDUCTION OF DEGRADATION OF MAGNETIC TAPE	APPARATUS
Filing Date:	Application No.:
and the invention(s) and improvement(s) set forth therein, P's), divisionals, and renewals of and substitutes for said a Patent of the United States and of countries foreign there reissues, or reexaminations, or extensions of said Letters P I/we additionally authorize HPDC to file application	application for said Letters Patent, and any and all Letters ato which may be granted thereon or therefore; and any Patent.  In any country, to be in my/our name for Letters Patent in any country, to be
held and enjoyed by HPDC, its successors, assigns, nomin terms for which said Letters Patent respectively may be g same would have been held and enjoyed by me/us had this AND I/we hereby covenant that I/we have full right	ranted, reissued or extended, as fully and entirely as the s assignment, and transfer not been made; it to convey the entire interest herein assigned, and that I/
we have not executed and will not execute any agreement that I/we will, each time a request is made, and without uncoessary or desirable to perfect the title to said invention Patent, to HPDC, its successors, assigns, nominees or In HPDC, or to its nominee, all known facts respecting said Letters Patent, to testify in any legal proceedings, to sign a	in conflict herewith, and I/we further covenant and agree due delay, execute and deliver all such papers as may be n(s) or improvement(s), said application and said Letters egal representatives, and I/we agree to communicate to invention(s) or improvement(s), said application and said II lawful papers, to execute all disclaimers and divisionals,
continuations, C-I-P's, reissue and foreign applications, to do everything possible to aid HPDC, its successors, ass enforce, for its or their own benefit, proper patent protectic countries provided the expenses which may be incurred be paid by HPDC;	igns, nominees and legal representatives to obtain and on for said invention(s) or improvement(s) in any and all
AND I/we hereby authorize and request the Command any official of any country or countries foreign to trapplications as aforesaid, to issue to HPDC, as assignee Patent for said invention(s) or improvement(s), including a be issued and granted on or as a result of the application at	of the entire right, title and interest, any and all Letters ny and all Letters Patent of the United States which may
application now identified by the Record ID and title set f known to them by the United States Patent and Trademark	orth above as soon as the same shall have been made
And John	3/15/2012
Inventor's Signature	Date Assignment Signed
Paul Poorman	3/2-12-12
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Geoff Spratt	
Inventor's Typed Name	Date Application Signed

Page 1 of 2

HEVALETT PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

PATENT APPLICATION

REC	ORD ID:	82899734

#### **ASSIGNMENT OF PATENT APPLICATION**

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

DEVELOPMENT COMPANY, L.P., a Texas Limited Partnership havi Texas. (hereinafter HPDC), in furtherance of my/our obligations subsidiaries and affiliates, and do hereby assign and transfer to HPDC title and interest, including the right of priority, in, to and under an app entitled:	to the Hewlett-Packard Company and its ; its successors and assigns, the entire right,
REDUCTION OF DEGRADATION OF MAGNETIC TAPE APPARATU	<b>38</b>
Filing Date: Application Application	
and the invention(s) and improvement(s) set forth therein, and any ar Ps), divisionals, and renewals of and substitutes for said application for Pstent of the United States and of countries foreign thereto which make the contract of the United States and of countries foreign thereto which make the United States and of countries foreign thereto which make the United States and of countries foreign thereto which make the United States and of countries of said Letters Patent.  We additionally authorize HPDC to file applications in mylour	or said Letters Patent, and any and all Letters hay be granted thereon or therefore; and any
held and enjoyed by HPDC, its successors, assigns, nominees or legaterms for which said Latters Patent respectively may be granted, reis same would have been held and enjoyed by me/us had this assignment.	is representatives, to the full end of the term or sued or extended, as fully and entirely as the nt, and transfer not been made;
AND I/we hereby covenent that I/we have full right to convey we have not executed and will not execute any agreement in conflict I that I/we will, each time a request is made, and without undue delay, a necessary or desirable to perfect the title to said invention(s) or important, to HPDC, its successors, assigns, nominees or legal representation of the interesting said invention(s). Letters Patent, to testify in any legal proceedings, to sign all lawful paper continuations, C-I-P's, reissue and foreign applications, to make all rigid everything possible to aid HPDC, its successors, assigns, noming enforce, for its or their own benefit, proper patent protection for said countries provided the expenses which may be incurred by me/us in paid by HPDC.  AND I/we hereby authorize and request the Commissioner of and any official of any country or countries foreign to the United applications as aforesaid, to issue to HPDC, as assignee of the entitle Patent for said invention(s) or improvement(s), including any and all it be issued and granted on or as a result of the application aforesaid, in I/we further authorize and direct the attorneys of record to it sopilication now identified by the Record ID and title set forth above known to them by the United States Patent and Trademark Office.	herewith, and I/we further coverient and agree execute and deliver all such papers as may be rovement(s), said application and said Letters entatives, and I/we agree to communicate to or improvement(s), said application and said lers, to execute all disclaimers and divisionals, ghtful oaths and declarations, and generally to nees and legal representatives to obtain and invention(s) or improvement(s) in any and all lending such cooperation and assistance are Patents and Trademarks of the United States States whose duty it is to issue patents on ire right, title and interest, any and all Letters Letters Patent of the United States which may accordance with the terms of this assignment. Insert the serial number and filing date of said
Inventor's Statuture	Cate Assignment Signed
Paul Poorman	•
Inventor's Typed Name	Date Application Signed
L Salt	3 h = 1256
Inventor's Signature	Oate Assignment Signed
Geoff Spran	3/20/22/2
An exceloria Tunned Kleromo	Plate Application Claused

Rev (M/11 (Assignment)

Page 1 of 2

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35

#### PATENT APPLICATION

Mail Stop 35 Fort Collins, Colorado 80528	RECORD (D: 82899734
<del></del>	OF PATENT APPLICATION (cont.)
1712 JUN	3/20/2012
Inventor's Signature	Date Assignment Signed
Mike Holmberg	3/20/202
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Lawrence Hansen	
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Brian Brong	
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Richard Dee	
Inventor's Typed Name	Date Application Signed
inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

### PATENT APPLICATION

Fort Collins, Colorado 80528	RECORD ID:82899734
	PATENT APPLICATION (cont.)
Inventor's Signature	Date Assignment Signed
Mike Holmberg	
Inventor's Typed Name	Date Application Signed
Burea a Ma	3/20/2012
Inventor's Signature	Beta Assignment Signed
Lawrence Hansen	<u> 3/20/2012</u>
inventor's Typed Name	Date Application Signed
Δ. Δ	
Breeze Drance	3 /20 / 20 12 Date Assignment Signed
Inventor's Signature	
Brian Brong Inventor's Typed Name	3/20/2012 Date Application Signed
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Inventor's Signature	Date Assignment Signed
Richard Dee	
inventor's Typed Name	Date Application Signed
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Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
inventor's Typed Name	Date Application Signed

HEWLETT-PACKARD COMPANY Intellectual Property Administrator 3404 E. Harmony Road Mail Stop 35 Fort Collins, Colorado 80528

#### PATENT APPLICATION

RECORD ID:	82899734

### **ASSIGNMENT OF PATENT APPLICATION (cont.)**

inventor's Signature	Date Assignment Signed
Mike Holmberg	
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Lauranas Hansan	
Lawrence Hansen Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Brian Brong	
Inventor's Typed Name	Date Application Signed
RUSE	March 27, 2012
Inventor's Signature	Date Assignment Signed
Richard Dee	March 27, 2012
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed
Inventor's Signature	Date Assignment Signed
Inventor's Typed Name	Date Application Signed

Rev 09/11 (Assignment)

Page 2 of 2