

01-10-2007

ATTORNEY DOCKET NO. 20061U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

103359513

HEET

PATENT COVER SHEET

## 1. Name of conveying party(ies):

Thomas NEAL  
Robert THROOP  
Ken ROBERTSON

## 2. Name and address of receiving party(ies):

HEWLETT-PACKARD DEVELOPMENT COMPANY, L.P.  
20555 SH 249  
Houston, TX 77070Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ NoAdditional name(s) and address(es) attached? ☐ Yes ☒ No

## 3. Nature of Conveyance:

☒ Assignment ☐ Merger ☐ Change of Name ☐ Security Agreement ☐ Joint  
☐ Other

Execution Date(s): 11/01/2006, 01/02/2007, 12/01/2006

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, execution date of the application is:

## A. Patent Application No.(s)

Application No.: 11/584,126

Date Filed: 10/20/2006

Confirmation No.: 4657

## B. Patent No.(s):

Additional numbers attached? NO

## 5. Name and address of party to whom correspondence concerning document should be mailed:

**Records Manager**  
**Intellectual Property Administration**  
**HEWLETT-PACKARD COMPANY**  
**P.O. Box 272400**  
**Fort Collins, Colorado 80527-2400**6. Total number of applications and patents involved: 1

## 7. Total Fee (37 CFR 3.41): ..... \$40.00

☐ Enclosed☒ Authorization to be charged to deposit account.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.*

James P. Hao

Name of Person Signing

Signature

01/03/2007

Date

Total number of pages including coversheet, attachments, and documents: 6Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, V.A. 22313-1500

**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:

**COOLING A COMPUTING DEVICE**

Filing Date: 10/20/2006

Application No.: 11/584,126

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 therefore; and any reissues, or reexaminations, or extensions of said Letters Patent.

I/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 Office.

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

  
Inventor's Signature (Seal)

Nov. 1, 2006  
Date Assignment Signed

Thomas NEAL  
Inventor's Typed Name

Nov. 1, 2006  
Date Application Signed

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.:  
\_\_\_\_\_ )

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Thomas NEAL 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:

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

## PATENT APPLICATION

ATTORNEY DOCKET NO. 200600050-1

## ASSIGNMENT OF PATENT APPLICATION (cont.)

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

Inventor's Signature (Seal)

Date Assignment Signed

Robert THROOP

Inventor's Typed Name

Date Application Signed

State of

County of

Before me this 1/2/07 day of January, personally appeared Robert THROOP 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:

Inventor's Signature (Seal)

Date Assignment Signed

Ken ROBERTSON

Inventor's Typed Name

Date Application Signed

State of

County of

Before me this 12/1/06 day of December, personally appeared Ken ROBERTSON 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:

Inventor's Signature (Seal)

Date Assignment Signed

Inventor's Typed Name

Date Application Signed

State of

County of

Before me this 12/1/06 day of December, personally appeared Ken ROBERTSON 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.

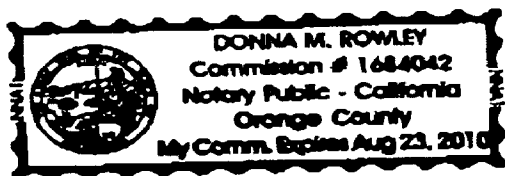
Notary Public  
My Commission Expires:

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

County of Orange } ss.

On January 2, 2007, before me, Donna M. Rowley, Notary Public  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")  
 personally appeared Robert Throop,  
Name(s) of Signer(s)



☐ personally known to me

☒ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Place Notary Seal Above

[Signature]  
Signature of Notary Public

## OPTIONAL

*Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.*

### Description of Attached Document

Title or Type of Document: \_\_\_\_\_

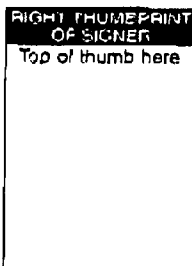
Document Date: \_\_\_\_\_ Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

### Capacity(ies) Claimed by Signer(s)

Signer's Name: \_\_\_\_\_

- ☐ Individual
- ☐ Corporate Officer — Title(s): \_\_\_\_\_
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: \_\_\_\_\_



Signer Is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_

- ☐ Individual
- ☐ Corporate Officer — Title(s): \_\_\_\_\_
- ☐ Partner — ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: \_\_\_\_\_



Signer Is Representing: \_\_\_\_\_

## 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**

Robert THROOP

Inventor's Typed Name

**Date Application Signed**

State of

)

SS:

County of \_\_\_\_\_

1

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Robert THROOP 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:**

**Inventor's Signature (Seal)**

Date Assignment Signed \_\_\_\_\_

**Ken ROBERTSON**

**Inventor's Typed Name**

**Date Application Signed**

State of

1

1 ss.:

County of \_\_\_\_\_

)

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared Ken ROBERTSON 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:**

**Inventor's Signature (Seal)**

Date Assignment Signed \_\_\_\_\_

**Inventor's Typed Name**

Date Application Signed

## State of

1

1 ss.:

County of \_\_\_\_\_

1

Before me this \_\_\_\_\_ day of \_\_\_\_\_, personally appeared \_\_\_\_\_ 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: \_\_\_\_\_