

04-26-2004

Form PTO-1595

(Rev. 10/02)

OMB No. 0651-0027 (exp. 6/30/2005)

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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office  
ATTY. DKT. NO. IPVAP001

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

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

Kwok Wai Cheung  
Peter P. Tong  
C. Douglass THOMASAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 4/13/04

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

Name: IpVenture, Inc.

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

5150 El Camino Real, Suite A-22

City: Los Altos State: CA Zip: 94022

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s): 10826529

If this document is being filed together with a new application, the execution date of the application is: 4/13/04

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: C. Douglass Thomas

Internal Address: \_\_\_\_\_

Street Address: \_\_\_\_\_

5150 El Camino Real, Suite A-22

City: Los Altos State: CA Zip: 94022

6. Total number of applications and patents involved: ☐

7. Total fee (37 CFR 3.41).....\$ 40.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

## 8. Deposit account number: \_\_\_\_\_

(Attach duplicate copy of this page if paying by deposit account)

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## 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.

C. Douglass Thomas

Name of Person Signing

C. Douglass Thomas  
Signature4/15/2004  
Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
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04/21/2004 EHAILE1 00000030 10826529

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PATENT  
REEL: 015295 FRAME: 0287

# **ASSIGNMENT OF PATENT APPLICATION**

WHEREAS I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

## **DIRECTIONAL WIRELESS COMMUNICATION SYSTEMS**

(Docket No. IPVBP001), (check one)

☒ for which I have executed a U.S. patent application on even date herewith.  
(Accompanying)

☐ which bears U.S. application No. \_\_\_\_\_ . (Not accompanying)

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, HEREBY:

- 1) Sell, assign and transfer to IpVenture, Inc., a California corporation having a place of business at 5150 El Camino Real, Suite A-22, Los Altos, CA 94022 ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents granted upon the above-referenced patent application (including all applications for patent that may be filed for the inventions in any foreign country and all patents that may be granted on the inventions in any foreign country), and all rights to claim priority on the basis of such applications, and all extensions, renewals, and reissues thereof.
- 2) Authorize and request the Commissioner of Patents to issue any and all United States Patents (and likewise any official of any foreign country whose duty it is to issue patents) resulting from the above-referenced patent application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this Assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.

5) Warrant and represent that I have not entered and will not enter into any assignment, contract, or understanding that conflicts with this assignment, that I have the full right to convey the interest assigned by this Assignment, and that I will take all action and execute all documents necessary to perfect the interest assigned hereby.

Signed on the date indicated beside my signature.

1. Inventor Signature: \_\_\_\_\_

[Kwok Wal Cheung]

Date: \_\_\_\_\_

APR. 13, 04

2. Inventor Signature: \_\_\_\_\_

[Peter P. Tong]

Date: \_\_\_\_\_

April 13, 2004

3. Inventor Signature: \_\_\_\_\_

[C. Douglass Thomas]

Date: \_\_\_\_\_

4/13/2004

Docket No.: IPVBP001

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