

RECORD

12-08-2005

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

Tab settings ⇌ ⇌ ⇌

To the honorable Commissioner of Patents

103133092

original documents or copy thereof.

1. Name of conveying party(ies):
Bretton Lee Douglas Arnold M. Bilstad Daryl A. Kaiser
Timothy S. Olson Sheausong Yang
David E. Halasz Richard D. Rebo
John Z. Deng Jonathan S. Leary

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: Nov 21, 2005

2. Name and address of receiving party(ies)

Name: Cisco Technology, Inc.

Internal Address: _____

Street Address: Mail Stop SJC 10/2/1

170 W. Tasman Drive

City: San Jose State: CA Zip: 95134

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

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

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

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: Dov Rosenfeld

Inventek

Internal Address: _____

Street Address: 5507 College Avenue, Suite 2

City: Oakland State: CA Zip: 94618

6. Total number of applications and patents involved: 1

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

☒ Enclosed as Credit Card Charge Form

☒ Authorized to be charged to deposit account

8. Deposit account number:

50-0292

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

DO NOT USE THIS SPACE

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.

Dov Rosenfeld

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents: 30

Mail documents to be recorded with required cover sheet information to:
Mail Stop Assignment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

11/28/2005 MBIZUNES 00000080 11286086

06 FC:8021

40.00 DP

PATENT
REEL: 017311 FRAME: 0001

Ref. No. CISCO-9998

ASSIGNMENT OF PATENT APPLICATION

FOR GOOD AND VALUABLE CONSIDERATION, We, the undersigned (each) have agreed and hereby agree to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign and transfer unto Cisco Technology, Inc., a corporation organized under the laws of California as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

TAG LOCATION, CLIENT LOCATION, AND COVERAGE HOLE LOCATION IN A WIRELESS NETWORK

described in an application for Letters Patent of the United States, identified as Docket/Ref. No. CISCO-9998, at Dov Rosenfeld, 5507 College Avenue, Suite 2, Oakland, CA 94618, the specification of which is attached hereto unless the following is checked ☐ and filed on , as Application Serial No. , and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

We covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, we have hereunto signed our names on the day and year set forth below.

Bretton Lee Douglas
Inventor's Signature

11/21/2005
DATE

Inventor's Printed Name: Bretton Lee Douglas

Witness statement: On the date above personally came the above named Bretton Lee Douglas and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature Brian Hart

Printed Name of Witness: BRIAN HART

TIMOTHY S. OLSON:Timothy S. Olson

Inventor's Signature

11/21/2005

DATE

Inventor's Printed Name: Timothy S. Olson

Witness statement: On the date above personally came the above named Timothy S. Olson and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature B. HartPrinted Name of Witness: BRIAN HART

DAVID E. HALASZ:

Inventor's Signature _____

DATE _____

Inventor's Printed Name: David E. Halasz

Witness statement: On the date above personally came the above named David E. Halasz and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature _____

Printed Name of Witness: _____

JOHN Z. DENG:

Inventor's Signature _____

DATE _____

Inventor's Printed Name: John Z. Deng

Witness statement: On the date above personally came the above named John Z. Deng and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature _____

Printed Name of Witness: _____

ARNOLD M. BILSTAD:_____
Inventor's Signature_____
DATEInventor's Printed Name: Arnold M. Bilstad

Witness statement: On the date above personally came the above named Arnold M. Bilstad and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

SHEAUSONG YANG:
Inventor's Signature11/21/2005
DATEInventor's Printed Name: Sheausong Yang

Witness statement: On the date above personally came the above named Bretton Lee Douglas and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

RICHARD D. REBO:_____
Inventor's Signature_____
DATERichard D. Rebo

Inventor's Printed Name

Witness statement: On the date above personally came the above named Richard D. Rebo and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

JONATHAN S. LEARY:_____
Inventor's Signature_____
DATEInventor's Printed Name: Jonathan S. Leary

Witness statement: On the date above personally came the above named Jonathan S. Leary and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

DARYL A. KAISER:_____
Inventor's Signature_____
DATEInventor's Printed Name: Daryl A. Kaiser

Witness statement: On the date above personally came the above named Daryl A. Kaiser and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

Assignment Page 1

Docket/Ref. No. CISCO-9998

Ref. No. CISCO-9998

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FOR GOOD AND VALUABLE CONSIDERATION, We, the undersigned (each) have agreed and hereby agree to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign and transfer unto Cisco Technology, Inc., a corporation organized under the laws of California as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

TAG LOCATION, CLIENT LOCATION, AND COVERAGE HOLE LOCATION IN A WIRELESS NETWORK

described in an application for Letters Patent of the United States, identified as Docket/Ref. No. CISCO-9998, at Dov Rosenfeld, 5507 College Avenue, Suite 2, Oakland, CA 94618, the specification of which is attached hereto unless the following is checked ☐ and filed on _____, as Application Serial No. _____, and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

We covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, we have hereunto signed our names on the day and year set forth below.

Inventor's Signature_____
DATEInventor's Printed Name: Bretton Lee Douglas

Witness statement: On the date above personally came the above named Bretton Lee Douglas and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

Assignment Page 2

Docket/Ref. No. CISCO-9998

TIMOTHY S. OLSON:_____
Inventor's Signature_____
DATE

Inventor's Printed Name: _____

Witness statement: On the date above personally came the above named Timothy S. Olson and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

DAVID E. HALASZ:_____
Inventor's Signature_____
DATEInventor's Printed Name: David E. Halasz

Witness statement: On the date above personally came the above named David E. Halasz and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

JOHN Z. DENG:_____
Inventor's Signature_____
DATEInventor's Printed Name: John Z. Deng

Witness statement: On the date above personally came the above named John Z. Deng and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

Assignment Page 3

Docket/Ref. No. CISCO-9998

ARNOLD M. BILSTAD:_____
Inventor's Signature_____
DATEInventor's Printed Name: Arnold M. Bilstad

Witness statement: On the date above personally came the above named Arnold M. Bilstad and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

SHEAUSONG YANG:_____
Inventor's Signature_____
DATEInventor's Printed Name: Sheausong Yang

Witness statement: On the date above personally came the above named Bretton Lee Douglas and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

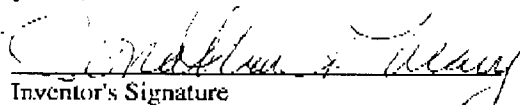
RICHARD D. REBO:_____
Inventor's Signature_____
DATERichard D. Rebo_____
Inventor's Printed Name

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Witness Signature_____
Printed Name of Witness:

Assignment Page 4

Docket/Ref. No. CISCO-9998

JONATHAN S. LEARY:
Inventor's Signature11/21/05
DATEInventor's Printed Name: Jonathan S. Leary

Witness statement: On the date above personally came the above named Jonathan S. Leary and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature Caroline AbatePrinted Name of Witness: Caroline Abate

DARYL A. KAISER:

Inventor's Signature _____

DATE _____

Inventor's Printed Name: Daryl A. Kaiser

Witness statement: On the date above personally came the above named Daryl A. Kaiser and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature _____

Printed Name of Witness: _____

Ref. No. CISCO-9998

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TAG LOCATION, CLIENT LOCATION, AND COVERAGE HOLE LOCATION IN A WIRELESS NETWORK

described in an application for Letters Patent of the United States, identified as Docket/Ref. No. CISCO-9998, at Dov Rosenfeld, 5507 College Avenue, Suite 2, Oakland, CA 94618, the specification of which is attached hereto unless the following is checked ☐ and filed on , as Application Serial No. , and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

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Inventor's Signature

DATE

Inventor's Printed Name: Bretton Lee Douglas

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Witness Signature

Printed Name of Witness:

TIMOTHY S. OLSON:

Inventor's Signature _____

DATE _____

Inventor's Printed Name: _____

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Witness Signature _____

Printed Name of Witness: _____

DAVID E. HALASZ:

Inventor's Signature _____

DATE _____

Inventor's Printed Name: David E. Halasz

Witness statement: On the date above personally came the above named David E. Halasz and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature _____

Printed Name of Witness: _____

JOHN Z. DENG:

Inventor's Signature _____

DATE _____

Inventor's Printed Name: John Z. Deng

Witness statement: On the date above personally came the above named John Z. Deng and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature _____

Printed Name of Witness: Sean O'Rourke

ARNOLD M. BILSTAD:

Inventor's Signature

DATE

Inventor's Printed Name: Arnold M. Bilstad

Witness statement: On the date above personally came the above named Arnold M. Bilstad and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

SHEAUSONG YANG:

Inventor's Signature

DATE

Inventor's Printed Name: Sheausong Yang

Witness statement: On the date above personally came the above named Bretton Lee Douglas and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

RICHARD D. REBO:

Inventor's Signature

DATE

Richard D. Rebo

Inventor's Printed Name

Witness statement: On the date above personally came the above named Richard D. Rebo and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

JONATHAN S. LEARY:

Inventor's Signature

DATE

Inventor's Printed Name: Jonathan S. Leary

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Witness Signature

Printed Name of Witness:

DARYL A. KAISER:

Inventor's Signature

DATE

Inventor's Printed Name: Daryl A. Kaiser

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DATE_____
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Witness Signature_____
Printed Name of Witness:

TIMOTHY S. OLSON:

Inventor's Signature _____

DATE _____

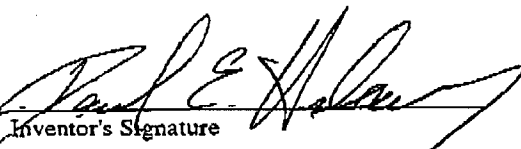
Inventor's Printed Name: _____

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Witness Signature _____

Printed Name of Witness: _____

DAVID E. HALASZ:


Inventor's Signature

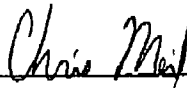
DATE

Nov 21, 2005

Inventor's Printed Name: David E. Halasz

Witness statement: On the date above personally came the above named David E. Halasz and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature



Printed Name of Witness: CHRIS MEIL

JOHN Z. DENG:

Inventor's Signature _____

DATE _____

Inventor's Printed Name: John Z. Deng

Witness statement: On the date above personally came the above named John Z. Deng and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature _____

Printed Name of Witness: _____

ARNOLD M. BILSTAD:

Inventor's Signature

DATE

Inventor's Printed Name: Arnold M. Bilstad

Witness statement: On the date above personally came the above named Arnold M. Bilstad and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

SHEAUSONG YANG:

Inventor's Signature

DATE

Inventor's Printed Name: Sheausong Yang

Witness statement: On the date above personally came the above named Bretton Lee Douglas and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

RICHARD D. REBO:

Inventor's Signature

DATE

Richard D. Rebo

Inventor's Printed Name

Witness statement: On the date above personally came the above named Richard D. Rebo and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

JONATHAN S. LEARY:

Inventor's Signature

DATE

Inventor's Printed Name: Jonathan S. Leary

Witness statement: On the date above personally came the above named Jonathan S. Leary and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

DARYL A. KAISER:

Inventor's Signature

DATE

Inventor's Printed Name: Daryl A. Kaiser

Witness statement: On the date above personally came the above named Daryl A. Kaiser and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

Ref. No. CISCO-9998

ASSIGNMENT OF PATENT APPLICATION

FOR GOOD AND VALUABLE CONSIDERATION, We, the undersigned (each) have agreed and hereby agree to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign and transfer unto Cisco Technology, Inc., a corporation organized under the laws of California as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

TAG LOCATION, CLIENT LOCATION, AND COVERAGE HOLE LOCATION IN A WIRELESS NETWORK

described in an application for Letters Patent of the United States, identified as Docket/Ref. No. CISCO-9998, at Dov Rosenfeld, 5507 College Avenue, Suite 2, Oakland, CA 94618, the specification of which is attached hereto unless the following is checked ☐ and filed on _____, as Application Serial No. _____, and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

We covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, we have hereunto signed our names on the day and year set forth below.

Inventor's Signature

DATE

Inventor's Printed Name: Bretton Lee Douglas

Witness statement: On the date above personally came the above named Bretton Lee Douglas and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature _____

Printed Name of Witness: _____

TIMOTHY S. OLSON:

Inventor's Signature

DATE

Inventor's Printed Name:

Witness statement: On the date above personally came the above named Timothy S. Olson and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

DAVID E. HALASZ:

Inventor's Signature

DATE

Inventor's Printed Name: David E. Halasz

Witness statement: On the date above personally came the above named David E. Halasz and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

JOHN Z. DENG:

Inventor's Signature

DATE

Inventor's Printed Name: John Z. Deng

Witness statement: On the date above personally came the above named John Z. Deng and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

JONATHAN S. LEARY:

Inventor's Signature

DATE

Inventor's Printed Name: Jonathan S. Leary

Witness statement: On the date above personally came the above named Jonathan S. Leary and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

DARYL A. KAISER:

Inventor's Signature

DATE

Inventor's Printed Name: Daryl A. Kaiser

Witness statement: On the date above personally came the above named Daryl A. Kaiser and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

ARNOLD M. BILSTAD:

Inventor's Signature

DATE

Inventor's Printed Name: Arnold M. Bilstad

Witness statement: On the date above personally came the above named Arnold M. Bilstad and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

SHEAUSONG YANG:

Inventor's Signature

DATE

Inventor's Printed Name: Sheausong Yang

Witness statement: On the date above personally came the above named Bretton Lee Douglas and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Printed Name of Witness:

RICHARD D. REBO:

Richard D. Rebo

Inventor's Signature

18 November 2005

DATE

Richard D. Rebo

Inventor's Printed Name

Witness statement: On the date above personally came the above named Richard D. Rebo and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature

Dale R. Williams

Printed Name of Witness:

DALE R. WILLIAMS

Ref. No. CISCO-9998

ASSIGNMENT OF PATENT APPLICATION

FOR GOOD AND VALUABLE CONSIDERATION, We, the undersigned (each) have agreed and hereby agree to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign and transfer unto Cisco Technology, Inc., a corporation organized under the laws of California as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

TAG LOCATION, CLIENT LOCATION, AND COVERAGE HOLE LOCATION IN A WIRELESS NETWORK

described in an application for Letters Patent of the United States, identified as Docket/Ref. No. CISCO-9998, at Dov Rosenfeld, 5507 College Avenue, Suite 2, Oakland, CA 94618, the specification of which is attached hereto unless the following is checked ☐ and filed on , as Application Serial No. , and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

We covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, we have hereunto signed our names on the day and year set forth below.

Inventor's Signature_____
DATEInventor's Printed Name: Bretton Lee Douglas

Witness statement: On the date above personally came the above named Bretton Lee Douglas and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

TIMOTHY S. OLSON:_____
Inventor's Signature_____
DATE_____
Inventor's Printed Name:

Witness statement: On the date above personally came the above named Timothy S. Olson and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

DAVID E. HALASZ:_____
Inventor's Signature_____
DATE_____
Inventor's Printed Name: David E. Halasz

Witness statement: On the date above personally came the above named David E. Halasz and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

JOHN Z. DENG:_____
Inventor's Signature_____
DATE_____
Inventor's Printed Name: John Z. Deng

Witness statement: On the date above personally came the above named John Z. Deng and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

ARNOLD M. BILSTAD:_____
Inventor's Signature_____
DATEInventor's Printed Name: Arnold M. Bilstad

Witness statement: On the date above personally came the above named Arnold M. Bilstad and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

SHEAUSONG YANG:_____
Inventor's Signature_____
DATEInventor's Printed Name: Sheausong Yang

Witness statement: On the date above personally came the above named Bretton Lee Douglas and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

RICHARD D. REBO:_____
Inventor's Signature_____
DATERichard D. Rebo_____
Inventor's Printed Name

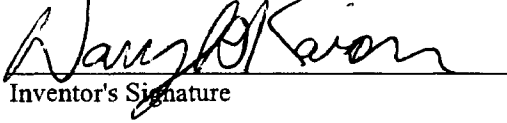
Witness statement: On the date above personally came the above named Richard D. Rebo and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

JONATHAN S. LEARY:_____
Inventor's Signature_____
DATEInventor's Printed Name: Jonathan S. Leary

Witness statement: On the date above personally came the above named Jonathan S. Leary and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

DARYL A. KAISER:
Inventor's Signature11 November 2005
DATEInventor's Printed Name: Daryl A. Kaiser

Witness statement: On the date above personally came the above named Daryl A. Kaiser and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature Evan Kaiser_____
Printed Name of Witness: Evan Kaiser

Assignment Page 1

Docket/Ref. No. CISCO-9998

Ref. No. CISCO-9998

ASSIGNMENT OF PATENT APPLICATION

FOR GOOD AND VALUABLE CONSIDERATION, We, the undersigned (each) have agreed and hereby agree to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign and transfer unto Cisco Technology, Inc., a corporation organized under the laws of California as Assignee, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

TAG LOCATION, CLIENT LOCATION, AND COVERAGE HOLE LOCATION IN A WIRELESS NETWORK

described in an application for Letters Patent of the United States, identified as Docket/Ref. No. CISCO-9998, at Dov Rosenfeld, 5507 College Avenue, Suite 2, Oakland, CA 94618, the specification of which is attached hereto unless the following is checked ☐ and filed on , as Application Serial No. , and the invention(s) and improvement(s) set forth therein, and any and all continuations, continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. We request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

We covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, we have hereunto signed our names on the day and year set forth below.

Inventor's Signature_____
DATEInventor's Printed Name: Bretton Lee Douglas

Witness statement: On the date above personally came the above named Bretton Lee Douglas and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

Assignment Page 2

Docket/Ref. No. CISCO-9998

TIMOTHY S. OLSON:_____
Inventor's Signature_____
DATE_____
Inventor's Printed Name:

Witness statement: On the date above personally came the above named Timothy S. Olson and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

DAVID E. HALASZ:_____
Inventor's Signature_____
DATE_____
Inventor's Printed Name: David E. Halasz

Witness statement: On the date above personally came the above named David E. Halasz and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

JOHN Z. DENG:_____
Inventor's Signature_____
DATE_____
Inventor's Printed Name: John Z. Deng

Witness statement: On the date above personally came the above named John Z. Deng and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

Assignment Page 3

Docket/Ref. No. CISCO-9998

ARNOLD M. BILSTAD:*Arnold M. Bilstad*
Inventor's SignatureNov 22, 2005
DATEInventor's Printed Name: Arnold M. Bilstad

Witness statement: On the date above personally came the above named Arnold M. Bilstad and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature *Rajneesh Kumar*Printed Name of Witness: RAJNEESH KUMAR

SHEAUSONG YANG:

Inventor's Signature _____

DATE _____

Inventor's Printed Name: Sheausong Yang

Witness statement: On the date above personally came the above named Bretton Lee Douglas and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature _____

Printed Name of Witness: _____

RICHARD D. REBO:

Inventor's Signature _____

DATE _____

Richard D. Rebo
Inventor's Printed Name

Witness statement: On the date above personally came the above named Richard D. Rebo and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature _____

Printed Name of Witness: _____

Assignment Page 4

Docket/Ref. No. CISCO-9998

JONATHAN S. LEARY:_____
Inventor's Signature_____
DATEInventor's Printed Name: Jonathan S. Leary

Witness statement: On the date above personally came the above named Jonathan S. Leary and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness:

DARYL A. KAISER:_____
Inventor's Signature_____
DATEInventor's Printed Name: Daryl A. Kaiser

Witness statement: On the date above personally came the above named Daryl A. Kaiser and executed the foregoing assignment before me/us. The above named individual is personally known by me/us or proved to me/us on the basis of satisfactory evidence to be the same individual who executed the foregoing assignment before me/us. The above named individual acknowledged to me/us that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness Signature_____
Printed Name of Witness: