| Form PTO-1595 7-2503 REC 08-0   | 8 - 2003 U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office                        |  |  |  |
|---|--|--|--|--|
| OMB No. 0651-0027 (eyp. 5/31/2002)  | U.S. Patent and Trademark Office   |  |  |  |
| Tab settings ⇔⇔⇔ Ψ  | Ψ Ψ  |  |  |  |
| To the honorable Commissio 1025   | ied original documents or copy thereof.  |  |  |  |
| Name of conveying party(ies):     Richard A. Richard A. Kurt A. Lumbatis     John D. O'Sullivan Kevin C. H. Wong     Brian Hart     Philip J. Ryan    | 2. Name and address of receiving party(ies)  Name: Cisco Technology, Inc.  Internal Address: |  |  |  |
| Additional name(s) of conveying party(ies) attached? Yes X No   | 17   |  |  |  |
| 3. Nature of conveyance:  |  |  |  |  |
| X Assignment Merger   | Street Address: Mail Stop SJC 10/2/1   |  |  |  |
| Security Agreement Change of Name   | 170 W. Tasman Drive  |  |  |  |
| Other   |  |  |  |  |
| Execution Date: <b>July 24, 2003 &amp; July 25, 2003</b>  | City: San Jose State: CA Zip: 95134  Additional name(s) & address(es) Yes X 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: $\frac{1/28/03}{}$                                     |  |  |  |
| A. Patent Application No.(s)  | B. Patent No.(s)   |  |  |  |
| 10/629383 Additional numbers attached? Tyes X No  |  |  |  |  |
| <ol><li>Name and address of party to whom correspondence<br/>concerning document should be mailed:</li></ol>  | 6. Total number of applications and patents involved:  |  |  |  |
| Name <u>: Dov Rosenfeld</u>   |  |  |  |  |
| Inventek  | 7. Total fee (37 CFR 3.41)   |  |  |  |
| Internal Address:   | X Enclosed as Credit Card Charge Form  |  |  |  |
|   | X Authorized to be charged to deposit account  |  |  |  |
| Street Address: 5507 College Avenue   | 8. Deposit account number:   |  |  |  |
| Suite 2   | 50-0292  |  |  |  |
| City: <u>Oakland</u> State: <u>CA</u> Zip: <u>94618</u>   | (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 7/28/03   |  |  |  |  |
| Name of Person Signing  | Signature Date , attachments, and documents:   |  |  |  |

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

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PATENT REEL: 014360 FRAME: 0488 Assignment Page 1

Docket/Ref. No. «Case\_\_CaseNumber»

## 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

## <u>EARLY DETECTION OF FALSE START-OF-PACKET TRIGGERS IN A WIRELESS NETWORK NODE</u>

described in an application for Letters Patent of the United States, identified as Docket/Ref. No. CISCO-7472, 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

We authorize and empower the said Assignce, 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

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 Printed Name: Richard A. Keaney

On this day of (date) 25 July 2003 before me personally came the above named Richard A. Keaney who 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, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes therein set forth.

Witness 1 Signature

Printed Name of Witness 1: Mike in Printed Name of Witness 1: Mike Webb

Printed Name of Witness 2: STEPHEN AVERY

| Assignment Page 2                                    | Docket/Ref. No. «CaseCaseNumber»   |
|--|--|
|  |  |
|  |  |
| Inventor's Signature                                 | DATE   |
| Inventor's Printed Name: John D. O'Sullivan          | _  |
| STATE OF   |  |
| ) SS   |  |
| COUNTY OF )  |  |
| On this day of                                       | hefore me personally came the above named John D   |
|  | before me personally came the above named John D. to me on the basis of satisfactory evidence to be the same individual who eledged to me that he/she executed the same of his/her own free will for the                               |
|  | NOTARY PUBLIC  |
|  | My Commission Expires:   |
|  | •  |
|  |  |
|  |  |
| R UX   | 20 True 2000   |
| Inventor's Signature                                 | 25 July 2003 DATE  |
| Inventor's Printed Name: Brian Hart                  |  |
| On this day of (data) 25 July 2003                   | _before me personally came the above named Brian Hart who is personally  |
| known by the ds of proved to me ds on the basis of s | before me personally came the above named <u>Brian Hart</u> who is personally attisfactory evidence to be the same individual who executed the foregoing e executed the same of his/her own free will for the use and purposes therein |
| set forth.   |  |
| Witness 1 Signature M. Will                          | Printed Name of Witness 1: M, ka Welds  Printed Name of Witness 2: STEPHEN AVERY   |
| State  |  |
| Witness 2 Signature                                  | Printed Name of Witness 2: 7 EPHEN AVERY   |
| / '  |  |
| .7.  |  |
| Chile by   | 25 July 2003   |
| Inventor's Signature                                 | DATE   |
| Inventor's Printed Name: Philip J. Ryan              |  |
| STATE OF )   |  |
| COUNTY OF ) SS )                                     |  |
| known by me/us or proved to me/us on the basis of s  | me personally came the above named <u>Philip J. Ryan</u> who is personally atisfactory evidence to be the same individual who executed the foregoing e executed the same of his/her own free will for the use and purposes therein     |
| Witness 1 SignatureM. Wall                           | Printed Name of Witness 1: Mike Webb   |
| Witness 2 Signature M. Well Witness 2 Signature      | Printed Name of Witness 1: Mike Webb  Printed Name of Witness 2: STEPLIEN AVERY  |

Page 2 of 3

| Assignment Page 3  | Docket/Ref. No. «CaseCaseNumber»  |
|--|---|
| •  |   |
| Inventor's Signature   | DATE  |
| Inventor's Printed Name: Kurt A. Lumbatis  |   |
| STATE OF )   |   |
| COUNTY OF ) SS   |   |
| On this day of (date) personally known by me or proved to me on the ba foregoing assignment, and who acknowledged to r purposes therein set forth.             | before me personally came the above named <u>Kurt A. Lumbatis</u> who is asis of satisfactory evidence to be the <u>same</u> individual who executed the me that he/she executed the same of his/her own free will for the use and  |
|  | NOTARY PUBLIC   |
|  | My Commission Expires:  |
|  | •   |
|  |   |
| Klom Worg.   | 25th JULY 2003  |
| Inventor's Signature   | DATE  |
| Kevin C. H. Wong   |   |
| Inventor's Printed Name  |   |
| On this day of (date) 25 July 2003 personally known by me/us or proved to me/us on foregoing assignment, and who acknowledged to repurposes therein set forth. | before me personally came the above named <u>Kevin C. H. Wong</u> who is the basis of satisfactory evidence to be the same individual who executed the ne/us that he/she executed the same of his/her own free will for the use and |
| Witness 1 Signature M. Well Witness 2 Signature  | Printed Name of Witness 1: Mike Webb  Printed Name of Witness 2: STEPHEN AVERY  |
| <i>*</i>   |   |

Witness 2 Signature

Assignment Page 1

Docket/Ref. No. CISCO-7472

## 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 <u>Cisco Technology, Inc.</u>, a corporation organized under the laws of <u>California</u> 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

| Witness 1 Signature   | Printed Name of Witness 1:   |
|---|--|
|   | before me personally came the above named <u>Richard A. Keaney</u> who is not the basis of satisfactory evidence to be the same individual who executed the me that he/she executed the same of his/her own free will for the use and purposes   |
| Inventor's Printed Name: Richard A. Keaney  |  |
| Inventor's Signature  | DATE   |
| IN WITNESS WHEREOF, we have hereunto sign   | ned our names on the day and year set forth below.   |
| free and clear of any encumbrance, and that we ha   | assigns and legal representatives, that the rights and property herein conveyed are ave full right to convey the same as herein expressed.   |
| file or like document which may be required in an   | shall be deemed a full legal and formal equivalent of any assignment, consent to be country for any purpose and more particularly in proof of the right of the said it of the right of priority provided by the International convention which may   |
| any application for patent or other form of protect<br>provided by the International Convention for the I   | successors, assigns and legal representatives or nominees, to invoke and claim for tion for said inventions filed by it or them, the benefit of the right of priority Protection of Industrial Property, as amended, or by any convention which may I claim such right of priority without further written or oral authorization from us.  |
| and do all acts which may be necessary, desirable   | charge to said Assignee but at its expense, sign all papers, take all rightful oaths, or convenient for securing and maintaining patents for said inventions in any and assignee, its successors, assigns and legal representatives or nominees.   |
| 5507 College Avenue, Suite 2, Oakland, CA 9461 and filed on, as Application Ser any and all continuations, continuations-in-part, of Patent, and all the rights and privileges under any reissues, or reexaminations, or extensions of said | the United States, identified as Docket/Ref. No. <u>CISCO-7472</u> , at Dov Rosenfeld, 18, the specification of which is attached hereto unless the following is checked ial No, and the invention(s) and improvement(s) set forth therein, and divisionals, and renewals of and substitutes for said application for said Letters and all Letters Patent that may be granted therefor in any country, and any Letters Patent. We request that any and all Letters Patent for said inventions be d legal representatives, or to such nominees as it may designate. |
| EARLY DETECTION OF FALSE START-OF-P   | ACKET TRIGGERS IN A WIRELESS NETWORK NODE  |

PATENT REEL: 014360 FRAME: 0492

Printed Name of Witness 2:

Assignment Page 2

Docket/Ref. No. CISCO-7472

| A. Di. M.   | 25 JULY 2003   |  |
|---|--|--|
| Inventor's Signature  | DATE   |  |
| Inventor's Printed Name: John D. O'Sullivan   |  |  |
|   |  |  |
| STATE OF California) SS COUNTY OF Santa Clara)  |  |  |
| On this 35th day of who is personally known by the or proved to me or foregoing assignment, and who acknowledged to me therein set forth.  PATRICIA ANN I COMM. #13 NOTARY PUBLIC COMM. #13 NOTARY PUBLIC COMM. #13 NOTARY PUBLIC COMM. | 387759 C<br>ALIFORNIA &<br>COURTY T  |  |
| Inventor's Signature  | DATE   |  |
| Inventor's Printed Name: Brian Hart   |  |  |
| known by me/us or proved to me/us on the basis or   | before me personally came the above named <u>Brian Hart</u> who is personally f satisfactory evidence to be the same individual who executed the foregoing she executed the same of his/her own free will for the use and purposes therein set     |  |
| Witness 1 Signature   | Printed Name of Witness 1:   |  |
| Witness 2 Signature   | Printed Name of Witness 2:   |  |
| <u> </u>  |  |  |
| Inventor's Signature  | DATE   |  |
| Inventor's Printed Name: Philip J. Ryan   |  |  |
| STATE OF ) SS   |  |  |
| COUNTY OF )   |  |  |
| me/us or proved to me/us on the basis of satisfactor  | re me personally came the above named <u>Philip J. Ryan</u> who is personally known by ory evidence to be the same individual who executed the foregoing assignment, and same of his/her own free will for the use and purposes therein set forth. |  |
| Witness 1 Signature   | Printed Name of Witness 1:   |  |
| Witness 2 Signature   | Printed Name of Witness 2:   |  |

Page 2 of 3

Jul-24-03 03:32pm From-Cisco Systems Richfield 3rd Floor Assignment Page 1

therein set forth.

Witness 1 Signature \_\_\_\_\_

Witness 2 Signature

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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 EARLY DETECTION OF FALSE START-OF-PACKET TRIGGERS IN A WIRELESS NETWORK NODE described in an application for Letters Patent of the United States, identified as Docket/Ref. No. CISCO-7472, 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 Assignce, 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: Richard A. Keaney On this day of (date) before me personally came the above named Richard A. Keaney who 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, and who acknowledged to me that he/she executed the same of his/her own free will for the use and purposes

Printed Name of Witness 1:

Printed Name of Witness 2: \_\_\_\_\_

PATENT REEL: 014360 FRAME: 0494

| ,   |  |
|---|--|
| Inventor's Signature  | DATE   |
| Inventor's Printed Name: <u>John D. O'Sullivan</u>  |  |
| STATE OF ) ) SS   |  |
| COUNTY OF )   |  |
| On this day of<br>who is personally known by me or proved to me of<br>foregoing assignment, and who acknowledged to<br>therein set forth. | , before me personally came the above named John D. O'Sullivan on the basis of satisfactory evidence to be the same individual who executed the me that he/she executed the same of his/her own free will for the use and purposes               |
|   | NOTARY PUBLIC  |
|   | My Commission Expires:   |
|   |  |
| Inventor's Signature  | DATE   |
| Inventor's Printed Name: Brian Hart   |  |
| known by me/us or proved to me/us on the basis of   | before me personally came the above named <u>Brian Hart</u> who is personally of satisfactory evidence to be the same individual who executed the foregoing /she executed the same of his/her own free will for the use and purposes therein set |
| Witness 1 Signature   | Printed Name of Witness 1:   |
| Witness 2 Signature   | Printed Name of Witness 2:   |
| Inventor's Signature  | DATE   |
| Inventor's Printed Name: Philip J. Ryan   |  |
| STATE OF ) SS   |  |
| COUNTY OF )   |  |
| me/us or proved to me/us on the basis of satisfact  | ore me personally came the above named Philip J. Ryan who is personally known by cory evidence to be the same individual who executed the foregoing assignment, and e same of his/her own free will for the use and purposes therein set forth.  |
| Witness 1 Signature   | Printed Name of Witness 1:   |
| Witness 2 Signature   | Printed Name of Witness 2:   |

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Assignment Fage 2

Page 2 of 3

| •   |   |   |
|---|---|---|
| hventor's Signature   | 7/24/03   | 3   |
| nventor's Printed Name: Kurt A. Lumbatis  |   |   |
| COUNTY OF SOME )  |   |   |
| n i t   | basis of satisfactory evidence/she executed the same of | candary Public  CANDRYTH L. MACKEY  NOTARY PUBLIC  CANDRYTH L. MACKEY  NOTARY PUBLIC  STATE OF OHIO  My Commission call it. June 6, 2004                        |
| Inventor's Signature  | DATE  |   |
| Kevin C. H. Wong  |   | ·   |
| Inventor's Printed Name   |   |   |
| On this day of (date) personally known by me/us or proved to me/us foregoing assignment, and who acknowledged t purposes therein set forth. | on the basis of satisfactor                             | ally came the above named Kevin C. H. Wong who is ry evidence to be the same individual who executed the uted the same of his/her own free will for the use and |
| Witness 1 Signature   | Printed Na  | me of Witness 1:  |

3305232239

Docket/Ref. No. CISCO-7472

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03:32pm From-Cisco Systems Richfield 3rd Floor

Witness 2 Signature

**RECORDED: 07/28/2003** 

Jul-24-03

- Assignment Page 3

Page 3 of 3

Printed Name of Witness 2: