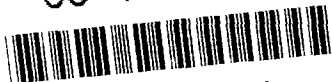


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TO THE HONORABLE DIRECTOR
ORIGINAL DOCUMENTS OR

PATENT AND TRADEMARK OFFICE. PLEASE RECORD THE ATTACHED

1. Name of conveying party(ies):

Punit Bhargava
Rina Panigrahy
Sriram C. Krishnan

Additional name(s) of conveying party(ies) attached?

☐ Yes☒ No

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

Name: Cisco Technology, Inc.

Street Address: 170 W. Tasman Drive

City: San Jose State: California Zip Code: 95134-1706

Country: USA

3. Nature of Conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ OtherExecution Dates: Punit Bhargava executed on June 6, 2005Rina Panigrahy executed on June 10, 2005Sriram C. Krishnan executed on June 6, 2005

Additional name(s) & address(es) attached?

☐ 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:

Punit Bhargava executed on June 6, 2005Rina Panigrahy executed on June 10, 2005Sriram C. Krishnan executed on June 6, 2005

A. Patent Application No.(s) -

Title: CONSTANT TIME SIGNATURE METHODS FOR
SCALABLE AND BANDWIDTH-EFFICIENT
MULTICAST

B. Patent No.(s)

Additional numbers attached?



Yes



No

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

Name: Jonathan N. GeldFirm: CAMPBELL STEPHENSON ASCOLESE LLPAddress: 4807 Spicewood Springs Rd.Address: Bldg. 4, Suite 201City Austin State TX Zip 787596. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$40.00

Authorized to be charged to Deposit Account 502306



Charge Deposit Account 502306 for any additional fees required for this conveyance and credit deposit account 502306 any amounts overpaid

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8. 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.*Jonathan N. Geld 44,702
Name of Person Signing[Signature]
Signature6/10/2005
DateTotal number of pages including cover sheet, attachments, and documents: 3

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

<u>Punit Bhargava</u>	of <u>Sunnyvale, California</u>
<u>Rina Panigrahy</u>	of <u>Sunnyvale, California</u>
<u>Sriram C. Krishnan</u>	of <u>San Jose, California</u>

hereby sell, assign and transfer to Cisco Technology, Inc., a California corporation, having a place of business at 170 W. Tasman Drive, San Jose, CA 95134-1706, its successors and assigns, the entire right, title and interest throughout the world in our invention in:

**CONSTANT TIME SIGNATURE METHODS FOR SCALABLE
AND BANDWIDTH-EFFICIENT MULTICAST**

for which we have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 6th day of June, 2005.

Punit Bhargava
Punit Bhargava

Executed this _____ day of _____, 2005.

Rina Panigrahy

Executed this 6 day of June, 2005.

Sriram C. Krishnan
Sriram C. Krishnan

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

<u>Punit Bhargava</u>	of <u>Sunnyvale, California</u>
<u>Rina Panigrahy</u>	of <u>Sunnyvale, California</u>
<u>Sriram C. Krishnan</u>	of <u>San Jose, California</u>

hereby sell, assign and transfer to Cisco Technology, Inc., a California corporation, having a place of business at 170 W. Tasman Drive, San Jose, CA 95134-1706, its successors and assigns, the entire right, title and interest throughout the world in our invention in:


**CONSTANT TIME SIGNATURE METHODS FOR SCALABLE
AND BANDWIDTH-EFFICIENT MULTICAST**

for which we have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this _____ day of _____, 2005.

Punit Bhargava

Executed this 10th day of June, 2005.


Rina Panigrahy

Executed this _____ day of _____, 2005.

Sriram C. Krishnan

- 1 -