PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3990418

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------------|----------------|
| VIKRAM CHANDRASEKHAR | 08/01/2016 |
| KEDAR SHIRALI | 07/26/2016 |
| QING ZHAO | 07/26/2016 |
| RAJESH PAZHYANNUR | 08/02/2016 |

RECEIVING PARTY DATA

| Name: | Cisco Technology, Inc. |
|-----------------|------------------------|
| Street Address: | 170 West Tasman Drive |
| City: | San Jose |
| State/Country: | CALIFORNIA |
| Postal Code: | 95134-1706 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15227099 |

CORRESPONDENCE DATA

Fax Number: (301)762-4056

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 301-424-3640

Email: mail@usiplaw.com

Correspondent Name: D. ANDREW FLOAM

Address Line 1: 9801 WASHINGTONIAN BLVD.

Address Line 2: SUITE 750

Address Line 4: GAITHERSBURG, MARYLAND 20878

| ATTORNEY DOCKET NUMBER: | 0370.2581C/1000389-US.02 |
|-------------------------|--------------------------|
| NAME OF SUBMITTER: | GEOFF D. TROTTER |
| SIGNATURE: | /Geoff D. Trotter/ |
| DATE SIGNED: | 08/03/2016 |

Total Attachments: 3

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PATENT REEL: 039328 FRAME: 0050

ASSIGNMENT

For good and valuable consideration, WE, Vikram Chandrasekhar, residing at 777 Luce Court, Mountain View, CA 94041; Kedar Shirali, residing at 1712 Laurentian Way, Sunnyvale, CA 94087; Qing Zhao, residing at 43275 Luzon Court, Fremont, CA 94539; and Rajesh Pazhyannur, residing at 43622 Euclid Drive, Fremont, CA 94539, hereinafter individually or collectively referred to as "Assignor";

Hereby sell, assign and transfer to Cisco Technology, Inc., a corporation organized and existing under the laws of California, having its principal place of business at 170 West Tasman Drive, San Jose, California 95134-1706, hereinafter "Assignee", its successors, assigns and legal representatives, the entire right, title and interest in and for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, which has been executed by the undersigned and entitled:

UPLINK CHANNEL ACCESS, RESERVATION AND DATA TRANSMISSION FOR LICENSED ASSIST ACCESS LONG TERM EVOLUTION (LAA-LTE)

and in and to said application, including, without prejudice to the generality of the foregoing, the right to file applications and to obtain patents or like protection in any country throughout the World, including the right to claim priority from any such application, and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be filed in the United States and all foreign countries on said improvements;

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and legal representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

| SIGNATURE: | | DATE: | 08/01/16 |
|---|----------------------|--|---------------------------------|
| *************************************** | Vikram Chandrasekhar | | minimize in the second second |
| SIGNATURE: | 200 | DATE: | |
| | Kedar Shirali | *************************************** | |
| SIGNATURE: | | DATE: | |
| | Qing Zhao | anna ann an a | |
| SIGNATURE: | | DATE: | 35 - 48 - 388388-4884-8885 - 35 |
| | Rajesh Pazhyannur | | |

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Mountain View, CA 94941, Kedar Shirati, residing at 1712 Laurentian Way, Someyoute, CA 94081, Qing
Zhao, residing at 47275 Lugan Court, Fremont, CA 94519, and Rainet Parkytonius, residing at 4362.
Luclus Drive French, CA 94519, hereinathe authorizably as otherwisely reterred to at "Assigna".

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UPLINK CHANNEL ACCESS, RESERVATION AND DATA TRANSMISSION FOR LICENSED ASSIST ACCESS LONG TERM EVOLUTION (LAALLE)

and an and a said application, including without projection in the growth of the Sections, the highly to the applications and to chain provide a tike projection in any country throughout the World, including the region to claim principles and all throughout providing exhibition, represent country, and all other applications for Legiers Patent which have been on stall to filed in the United States and all foreign countries on any of said improvements, and in article all original and represents which have been as shall be filed in the United States and all foreign countries on said improvements.

Agree that and conjugate may apply to that receive is the expense of and Assigned, to company to but at the expense of and Assigned, to company to but at the expense of and Assigned, to company to the expense of and Assigned, to company the expense of and assignment in the expense of the ex

Coverage with said Assigner, its necessors, assigns and legal representatives that no exagence of grant, marriage, likense or other agreement affecting the rights and properly become conveyed has been made to others by the undersigned, and that full right to corner the same as herein expressed in processed by the indersigned.

| SIGNATURE | | DATE | | |
|-----------|----------------------|---|------|--------|
| | Vikomi Chardrasekhar | | | |
| SIGNATURE | W. | DATE | 1/24 | 20/6 |
| | Kedar Shraii | | | |
| SIGNATURE | | DATE | 7-24 | 1-2016 |
| | Ong Auro | | 7 | |
| SIGNATURE | • | DATE | | |
| | Rayesh Pashyannur | *************************************** | | |

PATENT

REEL: 039328 FRAME: 0052

ASSIGNMENT

For good and valuable consideration, WE, Vikram Chandrasekhar, residing at 777 Luce Court, Mountain View, CA 94041; Kedar Shirali, residing at 1712 Laurentian Way, Sunnyvale, CA 94087; Qing Zhao, residing at 43275 Luzon Court, Fremont, CA 94539; and Rajesh Pazhyannur, residing at 43622 Euclid Drive, Fremont, CA 94539, hereinafter individually or collectively referred to as "Assignor";

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UPLINK CHANNEL ACCESS, RESERVATION AND DATA TRANSMISSION FOR LICENSED ASSIST ACCESS LONG TERM EVOLUTION (LAA-LTE)

and in and to said application, including, without prejudice to the generality of the foregoing, the right to file applications and to obtain patents or like protection in any country throughout the World, including the right to claim priority from any such application, and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said improvements; and in and to all original and reissued patents which have been or shall be filed in the United States and all foreign countries on said improvements:

Agree that said Assignee may apply for and receive Letters Patent for said improvements in its own name; and that, when requested, without charge to but at the expense of said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns, and legal representatives, all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee, its successors, assigns or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns and legal representatives; and

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| SIGNATURE: | Vikram Chandrasekhar | DATE: | |
|------------|----------------------|--------------------|-----------|
| SIGNATURE: | | DATE: | |
| SIGNATURE: | Kedar Shirali | DATE: | |
| SIGNATURE: | Qing Zhao | DATE 2101 Ay , 201 | |
| | Rajesh Pazhyannur | | gusi g |

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