

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Paul J. Stager</td> <td>09/27/2012</td> </tr> <tr> <td>Matthew A. Silverman</td> <td>09/28/2012</td> </tr> <tr> <td>Zhigang Gao</td> <td>09/28/2012</td> </tr> <tr> <td>John Blosco</td> <td>09/28/2012</td> </tr> <tr> <td>Raghuram Rangarajan</td> <td>10/03/2012</td> </tr> </tbody> </table>		Name	Execution Date	Paul J. Stager	09/27/2012	Matthew A. Silverman	09/28/2012	Zhigang Gao	09/28/2012	John Blosco	09/28/2012	Raghuram Rangarajan	10/03/2012
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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													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13645565</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13645565								
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Application Number:	13645565												
CORRESPONDENCE DATA													
Fax Number:	3017624056												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	301-424-3640												
Email:	mail@usiplaw.com												
Correspondent Name:	D. Andrew Floam												
Address Line 1:	1901 Research Boulevard												
Address Line 2:	Suite 400												
Address Line 4:	Rockville, MARYLAND 20850												
ATTORNEY DOCKET NUMBER:	0370.0546C (979552)												
NAME OF SUBMITTER:	D. Andrew Floam												
Total Attachments: 2 source=ExecutedAssignment#page1.tif source=ExecutedAssignment#page2.tif													

OP \$40.00 13645565

### ASSIGNMENT

For good and valuable consideration, WE, Paul J. Stager, residing at 2190 Kemery Rd., Akron, OH 44333; Matthew A. Silverman, residing at 3015 E. Belvoir Oval, Shaker Heights, OH 44122; Zhigang Gao, residing at 4125 Highlander Parkway, Richfield, OH 44286; John Blosco, residing at 3228 Brooklawn Drive, Norton, OH 44203; and Raghuram Rangarajan, residing at 2133 Kingsbury Circle, Santa Clara, CA 95054, hereinafter individually or collectively referred to as "Assignor";


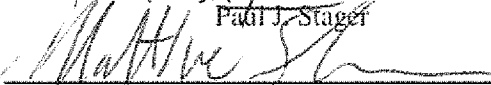

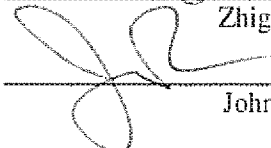
Hereby sell, assign and transfer to **Cisco Technology, Inc.**, a corporation organized and existing under the laws of California, having its principal place of business at 170 West Tasman Drive, San Jose, California 95134-1706, hereinafter "Assignee", its successors, assigns and legal representatives, 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: **High Density Deployment Using Transmit or Transmit-Receive Interference Suppression with Selective Channel Dimension Reduction/Attenuation and Other Parameters**

and in and to said 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: <u>9/27/12</u>
<u>Paul J. Stager</u>	
SIGNATURE: 	DATE: <u>9/28/12</u>
<u>Matthew A. Silverman</u>	
SIGNATURE: 	DATE: <u>09/28/12</u>
<u>Zhigang Gao</u>	
SIGNATURE: 	DATE: <u>09/28/2012</u>
<u>John Blosco</u>	
SIGNATURE: _____	DATE: _____
<u>Raghuram Rangarajan</u>	

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Matthew A. Silverman

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Zhigang Gao

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
John Blosco

SIGNATURE: \_\_\_\_\_ DATE: October 3, 2012  
Raghuram Rangarajan