

# PATENT ASSIGNMENT

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Shmuel Shaffer	10/06/2011
Jun Zha	10/06/2011
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Cisco Technology, Inc.
<b>Street Address:</b>	170 West Tasman Drive
<b>City:</b>	San Jose
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95134
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13269069
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	89263(310124)
<b>NAME OF SUBMITTER:</b>	James Behmke
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**PATENT**  
**REEL: 027031 FRAME: 0905**

## ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this 6<sup>th</sup> day of October, 2011,  
by Shmuel Shaffer and Jun Zha (hereinafter referred to as Assignors), residing at 1211  
Cowper Street, Palo Alto, California 94301; and 804 Altaire Walk, Palo Alto, California  
94303, respectively;

WHEREAS, Assignors have invented certain new and useful improvements  
in COMMUNICATION NETWORK TOPOLOGY MANAGEMENT BASED ON AN  
ASSOCIATED ELECTRIC GRID TOPOLOGY, set forth in a Patent application for  
Letters Patent of the United States, filed herewith; and

WHEREAS, Cisco Technology, Inc., a Corporation organized under and  
pursuant to the laws of California having its principal place of business at 170 West  
Tasman Drive, San Jose, California 95134 (hereinafter referred to as Assignee), is  
desirous of acquiring the entire right, title and interest in and to said inventions and  
said Application for Letters Patent of the United States, and in and to any Letters  
Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good  
and sufficient consideration, the receipt of which is hereby acknowledged, Assignors  
have sold, assigned, transferred and set over, and by these presents do sell, assign,  
transfer and set over, unto Assignee, its successors, legal representatives and  
assigns, the entire right, title and interest in and to the above-mentioned inventions  
and application for Letters Patent, and in and to any and all direct and indirect  
divisions, continuations and continuations-in-part of said application, and any and all  
Letters Patent in the United States and all foreign countries which may be granted  
therefor and thereon, and reissues, reexaminations and extensions of said Letters  
Patent, and all rights under the International Convention for the Protection of Industrial  
Property, the same to be held and enjoyed by Assignee, for its own use and benefit  
and the use and benefit of its successors, legal representatives and assigns, to the full  
end of the term or terms for which Letters Patent may be granted and/or extended, as

fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.

**AND** for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles and/or interests that have arisen to Assignee under law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to the said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

**AND** for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

**AND** Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns.

**AND** Assignors hereby grant the following individuals the power to insert on this Assignment any further identification which may be necessary or desirable in order

to comply with the rules of the United States Patent and Trademark Office for  
recording of this document:

EDWARDS WILDMAN PALMER LLP

All practitioners at Customer Number 21874

**AND** Assignors acknowledge an obligation of assignment of this invention to  
Assignee at the time the invention was made.

Date: 10/6/2011

Signature: Shmuel Shaffer  
Shmuel Shaffer

Date: 10/6/2011

Signature: Jun Zha  
Jun Zha