

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>Ehsan Afshari</td><td>11/21/2008</td></tr><tr><td>Harish Bhat</td><td>12/01/2008</td></tr><tr><td>Seyed Ali Hajimiri</td><td>11/24/2008</td></tr></tbody></table>		Name	Execution Date	Ehsan Afshari	11/21/2008	Harish Bhat	12/01/2008	Seyed Ali Hajimiri	11/24/2008
Name	Execution Date								
Ehsan Afshari	11/21/2008								
Harish Bhat	12/01/2008								
Seyed Ali Hajimiri	11/24/2008								
RECEIVING PARTY DATA									
Name:	California Institute of Technology								
Street Address:	1200 E California Blvd								
Internal Address:	MS 201-85								
City:	Pasadena								
State/Country:	CALIFORNIA								
Postal Code:	91125								
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>12252713</td></tr></tbody></table>		Property Type	Number	Application Number:	12252713				
Property Type	Number								
Application Number:	12252713								
CORRESPONDENCE DATA									
Fax Number: (626)792-1342 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone: 626 792 0536									
Email: mail@sbspatlw.com									
Correspondent Name: Steinfl & Bruno									
Address Line 1: 301 N Lake Ave Ste 810									
Address Line 4: Pasadena, CALIFORNIA 91101									
ATTORNEY DOCKET NUMBER:	P152-USC								
NAME OF SUBMITTER:	Enrica Bruno								
Total Attachments: 3 source=P152-USC_Signed-Assignment#page1.tif									

CH \$40.00 12252713

500741894

PATENT
REEL: 022037 FRAME: 0351

source=P152-USC_Signed-Assignment#page2.tif

source=P152-USC_Signed-Assignment#page3.tif

CONFIRMATORY ASSIGNMENT

We, Ehsan AFSHARI, residing in the United States of America at 1001 E. Villa Street, # 33, Pasadena, CA 91106, Harish BHAT residing in the United States of America at 34228 Torrey Pine Lane, Union City, CA 94587 and Seyed Ali HAJIMIRI residing in the United States of America at 425 San Palo Place, Pasadena, CA 91107 hereby confirm to have sold and assigned for good and valuable consideration, the receipt of which we hereby acknowledge,

to **CALIFORNIA INSTITUTE OF TECHNOLOGY**, an entity having its principal place of business in the United States of America at 1200 E California Blvd MS 201-85, Pasadena, CA 91125

hereinafter referred to as the assignee, its successors and assigns, our entire right, title and interest in and to the **"2D TRANSMISSION LINE-BASED APPARATUS AND METHOD"**

invented by us, as described and claimed in U.S. Patent Application No. 12/252,713 filed on October 16, 2008 and in any related patent applications filed and/or to be filed not only for, to and in the United States of America its territories and possessions, but also for, to and in all other countries, including any and all divisions, reissues, continuations, continuation in parts and extensions, including all priority rights under U.S. law and/or International conventions, and authorize and request any officials whose duty it is to issue patents, to issue any patent on said **"2D TRANSMISSION LINE-BASED APPARATUS AND METHOD"** and/or improvements thereof or resulting therefrom to said assignee or its successors or assigns, and agree to testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation in part and/or reissue applications, make all rightful oaths and/or declarations and generally do everything possible to aid said assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in the United States of America and in all other countries.

Subscribed and executed at Pasadena USA
City Country

On 11/21/08
Date

Inventor Name: Ehsan AFSHARI

Inventor Signature E. Afs

Witnessed by:
Witness Name Omeed Momeni Signature O. Momeni

Witness Name _____ Signature _____

Subscribed and executed at MERCED USA
City Country
On DEC 1, 2008
Date

Inventor Name: Harish BHAT

Inventor Signature

Harish L Bhat

Witnessed by:

Witness Name

Lee-May Huang

Signature

Lee-May Huang

Witness Name

Signature

Subscribed and executed at _____
City Country
On _____
Date

Inventor Name: Seyed Ali HAJIMIRI

Inventor Signature _____

Witnessed by:

Witness Name

Signature

Witness Name

Signature

Attorney Docket No: P152-USC

Subscribed and executed at _____
City CountryOn _____
DateInventor Name: Harish BHAT

Inventor Signature _____

Witnessed by:

Witness Name _____ Signature _____

Witness Name _____ Signature _____

Subscribed and executed at Pasadena, CA, USA
City CountryOn 11, 24, 2008
DateInventor Name: Seyed Ali HAJIMIRIInventor Signature 

Witnessed by:

Witness Name Michelle Chen Signature 

Witness Name _____ Signature _____

PATENT

RECORDED: 12/29/2008

REEL: 022037 FRAME: 0355