

## 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>Mark B. Flowers</td> <td>11/02/2011</td> </tr> <tr> <td>Mark Mallory</td> <td>10/31/2011</td> </tr> <tr> <td>Mark Brady</td> <td>09/30/2011</td> </tr> <tr> <td>John M. Cioffi</td> <td>10/11/2011</td> </tr> <tr> <td>Mehdi Mohseni</td> <td>10/11/2011</td> </tr> </tbody> </table>		Name	Execution Date	Mark B. Flowers	11/02/2011	Mark Mallory	10/31/2011	Mark Brady	09/30/2011	John M. Cioffi	10/11/2011	Mehdi Mohseni	10/11/2011
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RECEIVING PARTY DATA													
Name:	Adaptive Spectrum and Signal Alignment, Inc.												
Street Address:	333 Twin Dolphin Drive												
City:	Redwood City												
State/Country:	CALIFORNIA												
Postal Code:	94065												
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>13254454</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13254454								
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Application Number:	13254454												
CORRESPONDENCE DATA													
Fax Number:	(503)439-6073												
Phone:	5034398778												
Email:	annie_pearson@bstz.com												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name:	BSTZ												
Address Line 1:	1279 Oakmead Parkway												
Address Line 4:	Sunnyvale, CALIFORNIA 94085												
ATTORNEY DOCKET NUMBER:	8241P044												
NAME OF SUBMITTER:	Gregory D. Caldwell												

CH \$40.00 13254454

Total Attachments: 4

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## **ASSIGNMENT**

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

**Mark B. Flowers; Mark Mallory; Mark Brady; John M. Cioffi; Mehdi Mohseni**

hereby sell, assign, and transfer to

### **Adaptive Spectrum and Signal Alignment, Inc.**

a Corporation of California, having a principal place of business at 333 Twin Dolphin Drive, Redwood City, California 94065-1417 United States ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which for the non-provisional application may have a declaration executed by the undersigned prior hereto or concurrently herewith and which application (provisional or non-provisional) is entitled

### **DSL NOISE CANCELLATION**

said patent application also identified as follows (when known):

[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]

United States Patent Application Number 13/254,454 filed September 01, 2011,

and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

agree that said Assignee may apply for and receive a patent or patents for said inventions or 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 provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or 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 inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or 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.

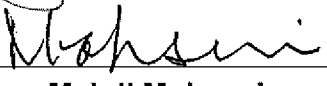
**Each Inventor: Please Sign and Date Below:**

10/2/2011   
Date Name: **Mark B. Flowers**

10-31-11   
Date Name: **Mark Mallory**

~~10-31-11~~ ~~~~  
Date Name: **Mark Brady**

10-11-11   
Date Name: **John M. Cioffi**

10-11-11   
Date Name: **Mehdi Mohseni**

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Date Name:

Assignment Document Return Address:  
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP  
1279 Oakmead Parkway  
Sunnyvale, CA 94085-4040  
Telephone: (503) 439-8778

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**Each Inventor: Please Sign and Date Below:**

---

Date \_\_\_\_\_ Name: **Mark B. Flowers**

Date \_\_\_\_\_ Name: **Mark Mallory**

9/30/2011

*Mark Brady*

Date \_\_\_\_\_ Name: **Mark Brady**

Date \_\_\_\_\_ Name: **John M. Cioffi**

Date \_\_\_\_\_ Name: **Mehdi Mohseni**

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