PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
John M. Cioffi	01/13/2006
Bin Lee	01/13/2006
Wonjong Rhee	01/13/2006
Georgios Ginis	01/13/2006

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

Property Type	Number
Application Number:	12853209

CORRESPONDENCE DATA

Fax Number: (503)439-6073

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 503-439-8778

Email: natasha_french@bstz.com

Correspondent Name: Blakely Sokoloff Taylor & Zafman LLP

Address Line 1: 1925 NW AmberGlen Parkway

Address Line 2: Suite 230

Address Line 4: Beaverton, OREGON 97006-6966

ATTORNEY DOCKET NUMBER:	8241P015D
NAME OF SUBMITTER:	Gregory D. Caldwell

Total Attachments: 4

PATENT REEL: 025350 FRAME: 0277 \$40,00 1285

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source=8241P015D Assignment from P15#page1.tif source=8241P015D Assignment from P15#page2.tif source=8241P015D Assignment from P15#page3.tif source=8241P015D Assignment from P15#page4.tif

> PATENT REEL: 025350 FRAME: 0278

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled:

PHANTOM USE IN DSL SYSTEMS

(Atty. Docket No. 0101-p15), filed November 04, 2005, which bears United States Application No. 11/267,623.

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, an undersigned inventor, hereby:

- Sell, assign and transfer to Adaptive Spectrum and Signal Alignment, Inc., a California corporation having a place of business at 203 Redwood Shores Parkway, Suite 250, Redwood City, California 94065-1198 ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents granted upon, the above-referenced application, including foreign applications and patents and the right to claim priority from the above-referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
- Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts 3) which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the 4) ASSIGNEE, its successors, assigns and other legal representative, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
- 6) Authorize and request my attorney/agent to take any appropriate action in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

Inventor -

Typed Name:

Date:

Assignee - Signature:

Assignee:

ive Spectrum and Signal Alighment, Inc.

Date:

By:

Title:

John M. Cioffi CEO

Attorney Docket No. 0101-p15

United States Serial No. 11/267,623

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Signed on the date indicated beside my signature.

Inventor -Signature:

Typed Name: Bin Lee

Date:

Assignee - Signature:

e Spectrum and Signal Aligni

Date:

Assignee:

By: Title:

CEO

Attorney Docket No. 0101-p15

United States Serial No. 11/267.623

PATENT REEL: 025350 FRAME: 0280

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Signed on the date indicated beside my signature.

Signature: Inventor -

Typed Name: Wonjong Rhee

Assignee - Signature:

Assignee:

By:

Title:

Spectrum and Signal Align

Date:

Attorney Docket No. 0101-p15

United States Serial No. 11/267,623

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Signed on the date indicated beside my signature.

Inventor -Signature:

Typed Name: Georgios Ginis

Date:

Assignee - Signature:

Assignee:

Spectrum and Signal A

CEO

United States Serial No. 11/267,623

Attorney Docket No. 0101-p15

Ву: Title:

> **PATENT** REEL: 025350 FRAME: 0282