

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>Kevin von Essen</td><td>04/22/2005</td></tr><tr><td>Antai Xu</td><td>04/22/2005</td></tr><tr><td>Andreas Bibl</td><td>04/22/2005</td></tr><tr><td>John A. Higginson</td><td>04/22/2005</td></tr></tbody></table>		Name	Execution Date	Kevin von Essen	04/22/2005	Antai Xu	04/22/2005	Andreas Bibl	04/22/2005	John A. Higginson	04/22/2005
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RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Spectra, Inc.</td></tr><tr><td>Street Address:</td><td>101 Etna Road</td></tr><tr><td>City:</td><td>Lebanon</td></tr><tr><td>State/Country:</td><td>NEW HAMPSHIRE</td></tr><tr><td>Postal Code:</td><td>03766-1422</td></tr></table>		Name:	Spectra, Inc.	Street Address:	101 Etna Road	City:	Lebanon	State/Country:	NEW HAMPSHIRE	Postal Code:	03766-1422
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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>12271707</td></tr></tbody></table>		Property Type	Number	Application Number:	12271707						
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Application Number:	12271707										
CORRESPONDENCE DATA											
Fax Number: (877)769-7945 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: (650) 839-5070											
Email: abriam@fr.com											
Correspondent Name: Brenda M. Leeds Binder											
Address Line 1: FISH & RICHARDSON P.C.											
Address Line 2: P.O.BOX 1022											
Address Line 4: MINNEAPOLIS, MINNESOTA 55440-1022											
ATTORNEY DOCKET NUMBER:	09991-0143002										
NAME OF SUBMITTER:	Joyce E. Abriam										
Total Attachments: 5											

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PATENT
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ASSIGNMENT

For valuable consideration, we, Kevin Von Essen, of 5074 Trenary Way, San Jose, California 95118; Antai Xu, of 3351 Apperson Ridge Drive, San Jose, California 95148; Andreas Bibl, of 588 Harrington Avenue, Los Altos, California 94024; John A. Higginson, of 2826 Forbes Avenue, Santa Clara, California 95051; hereby assign to SPECTRA, INC., a corporation of Delaware, having a place of business at 101 Etna Road, Lebanon, New Hampshire 03766-1422, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled FLEXIBLE PRINTHEAD CIRCUIT, filed April 28, 2005, and assigned U.S. Serial Number 11/119,308, and we authorize and request the attorneys appointed in said application to hereafter complete this assignment by inserting above the filing date and serial number of said application when known; this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

DATE: 4-22-05

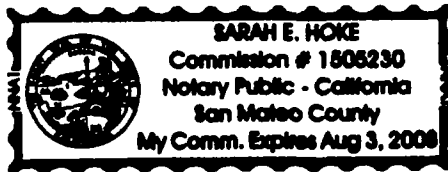


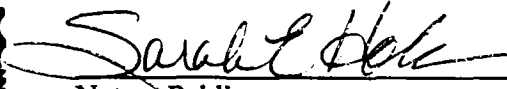
KEVIN VON ESSEN

STATE OF CALIFORNIA)
COUNTY OF SANTA CLARA) SS.

On APRIL 22, 2005, before me, the undersigned, a notary public for the State of California, there personally appeared KEVIN VON ESSEN personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.





Notary Public

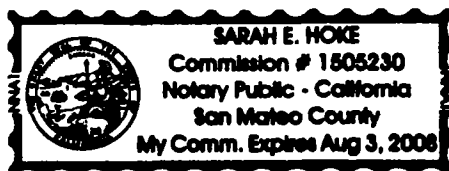
DATE: April 22, 2005

Antai Xu
ANTAI XU

STATE OF CALIFORNIA)
COUNTY OF SANTA CLARA) SS.

On 4/22/2005, before me, the undersigned, a notary public for the State of California, there personally appeared ANTAI XU personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.



Sarah E. Hoke
Notary Public

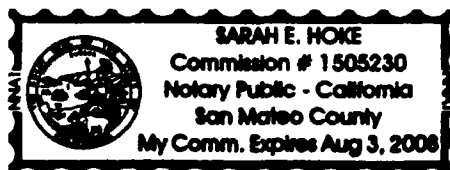
DATE: April 22 05

CC
ANDREAS BIBL

STATE OF CALIFORNIA)
COUNTY OF SANTA CLARA) SS.

On APRIL 22, 2005, before me, the undersigned, a notary public for the State of California, there personally appeared ANDREAS BIBL personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.



Sarah E. Hoke
Notary Public

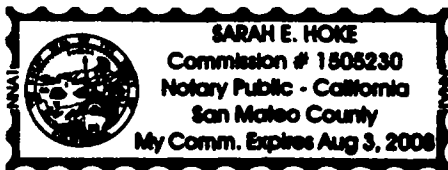
DATE: 4/22/05

[Signature]
JOHN A. HIGGINSON

STATE OF CALIFORNIA)
COUNTY OF SANTA CLARA) SS.

On APRIL 22, 2005, before me, the undersigned, a notary public for the State of California, there personally appeared JOHN A. HIGGINSON personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this Assignment, who acknowledged having executed the same in his authorized capacity and that by his signature on this Assignment, the person or the entity upon behalf of which he acted, executed this Assignment.

WITNESS my hand and official seal.



[Signature]
Notary Public

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