
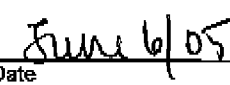


Substitute Form PTO-1596
Attorney Docket No.: 09991-143001

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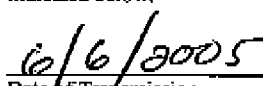
Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies): Kevin Von Essen, Antai Xu, Andreas Bibl and John A. Higginson Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Spectra, Inc. 101 Etna Road Lebanon, New Hampshire 03766-1422 Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 04/22/2005	Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s): 11/119,308 B. Patent No(s): Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name/address of party to whom correspondence concerning document should be mailed: BRENDA LEEDS BINDER Fish & Richardson P.C. 500 Arguello Street, Suite 500 Redwood City, California 94063	6. Total number of applications/patents involved: 1 7. Total fee (37 CFR §3.41): \$40 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to charge Deposit Account. 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
DO NOT USE THIS SPACE	
9. Statement and Signature: <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i>	
Brenda Leeds Binder Limited Recognition under 37 CFR § 11.9(b) Name of Person Signing	<div style="display: flex; justify-content: space-between;"> <div style="text-align: center;">  Signature </div> <div style="text-align: center;">  Date </div> </div>
Total number of pages including coversheet, attachments and document: 6	

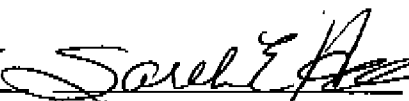
Brenda Leeds Binder has been given limited recognition under 37 CFR § 11.9(b) as an employee of the Fish & Richardson PC law firm to prepare and prosecute patent applications wherein the patent applicant is a client of Fish & Richardson PC and the attorney or agent of record in the applications is a registered practitioner who is a member of Fish & Richardson, which is the case in the present application. A copy of the Limited Recognition document, which expires July 26, 2005, is attached hereto.

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CERTIFICATE OF TRANSMISSION BY FACSIMILE

I hereby certify that this correspondence is being transmitted by facsimile to the Patent and Trademark Office on the date indicated below.


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Attorney Docket No: 09991-143001/479

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.

Attorney Docket No: 09991-143001/479

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

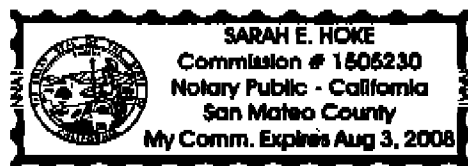
Attorney Docket No: 09991-143001/479

DATE: April 22, 2005

ANTAI XUSTATE 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.



Notary Public

ANDREAS BIBL

Notary Public

Attorney Docket No: 09991-143001/479

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