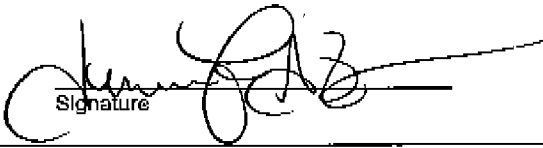


Substitute Form PTO-1596

Attorney Docket No.: 09991-190001

Client's Ref. No.: Disclosure No. 505


RECORDATION FORM COVER SHEET  
PATENTS ONLY

Commissioner for Patents: Please record the attached original document(s) or copy(ies).	
1. Name of conveying party(ies):  Andreas Bibl John A. Higginson Christoph Menzel Paul A. Hoisington  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 United States of America  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: 11/11/2004; 11/15/2004	
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): 10/967,012 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:  JENNIFER A. ZANOCCO 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>  Jennifer A. Zanocco Reg. No. 54,563 Name of Person Signing   Signature  12/01/04 Date	
Total number of pages including coversheet, attachments and document: 6	

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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.

December 1, 2004		Carlos A. Brasil
Date of Transmission	Signature	Typed Name of Person Signing Certificate

CH \$40.00 061060 10967012

Attorney Docket No: 09991-190001

ASSIGNMENT

For valuable consideration, we, Andreas Bibl, of 588 Harrington Avenue, Los Altos, CA 94024, John A. Higginson, of 2826 Forbes Avenue, Santa Clara, CA 95051, Christoph Menzel, of PO Box 1787, 53 Northwood Lane, New London, NH 03257, and Paul A. Hoisington, of 179 Beaver Meadow Road, Norwich, VT 05055, hereby assign to SPECTRA, INC., a Delaware corporation, having a place of business at

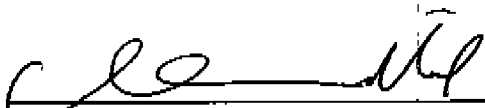
101 Etna Road

Lebanon, New Hampshire 03766-1422

United States of America, and;

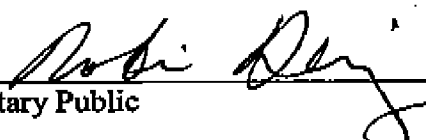
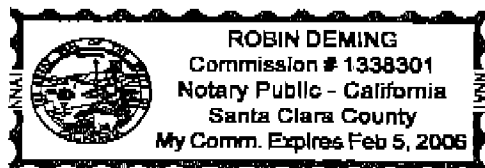
its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled FORMING PIEZOELECTRIC ACTUATORS, filed October 15, 2004, and assigned U.S. Serial Number 10/967,012, 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: 09991-190001

DATE: 11-11-04  
ANDREAS BIBLSTATE OF CALIFORNIA )  
COUNTY OF SANTA CLARA ) SS.

On NOVEMBER 11, 2004, before me, the undersigned, a notary public for the State of California personally appeared ANDREAS BIBL, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within Assignment, and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the Assignment the person or the entity upon behalf of which the person acted executed the Assignment.

WITNESS my hand and official seal.

  
Notary Public

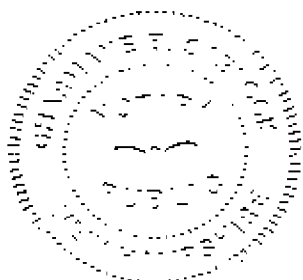
**PATENT**  
**REEL: 015420 FRAME: 0604**

Attorney Docket No: 09991-190001

DATE: 11/15/04Christoph Menzel  
CHRISTOPH MENZELSTATE OF New Hampshire  
COUNTY OF Grafton ) SS.

On November 15, 2004, before me, the undersigned, a notary public for the State of California / New Hampshire personally appeared CHRISTOPH MENZEL, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within Assignment, and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the Assignment the person or the entity upon behalf of which the person acted executed the Assignment.

WITNESS my hand and official seal.

Charmane B. Sablock  
Notary Public

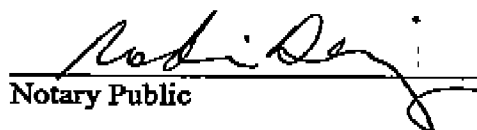
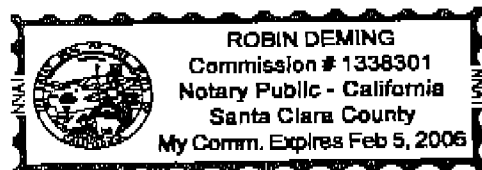
Charmane Sablock  
NOTARY PUBLIC  
New Hampshire  
My Commission Expires 10/22/08

Attorney Docket No: 09991-190001

DATE: 11/11/04  
PAUL A. HOISINGTONSTATE OF CALIFORNIA )  
COUNTY OF SANTA CLARA ) SS.

On NOVEMBER 11, 2004, before me, the undersigned, a notary public for the State of California / Vermont personally appeared PAUL A. HOISINGTON, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within Assignment, and acknowledged to me that he executed the same in his authorized capacity and that by his signature on the Assignment the person or the entity upon behalf of which the person acted executed the Assignment.

WITNESS my hand and official seal.

  
Notary Public

Assignment 5 of 5

RECORDED: 12/01/2004

PATENT  
REEL: 015420 FRAME: 0606