

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Edward R. Moynihan	12/22/1999
Paul A. Hoisington	12/22/1999
Yong Zhou	12/22/1999
Amy L. Brady	12/22/1999
Robert G. Palifka	11/20/2000
RECEIVING PARTY DATA	
Name:	Spectra, Inc.
Street Address:	P.O. Box 68C Etna Road
City:	Hanover
State/Country:	NEW HAMPSHIRE
Postal Code:	03755
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12326615
CORRESPONDENCE DATA	
Fax Number:	(877)769-7945
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	617-542-5070
Email:	zynda@fr.com
Correspondent Name:	Mary J. Zynda
Address Line 1:	P.O. Box 1022
Address Line 4:	Minneapolis, MINNESOTA 55440-1022
ATTORNEY DOCKET NUMBER:	09991-008004
NAME OF SUBMITTER:	Mary J. Zynda
Total Attachments: 7	

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**PATENT
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ASSIGNMENT

For valuable consideration, we, Edward R. Moynihan of Plainfield, NH, Paul A. Hoisington of Norwich, VT, Yong Zhou of Hanover, NH, and Amy L. Brady of Plainfield, NH, hereby assign to SPECTRA, INC., a Delaware corporation having a place of business at:

P.O. Box 68C Etna Road

Hanover, NH 03755

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 this day, entitled PIEZOELECTRIC INK JET MODULE WITH SEAL, filed October 5, 1999, and assigned U.S. Serial Number 09/412,827, 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.

IN WITNESS WHEREOF, I hereto set my hand and seal at Hanover, NH

this 22 day December of, 1999

Edward R. Moynihan
Edward R. Moynihan

L.S

State of New Hampshire :

: ss.

County of Grafton :

Before me this 22 day of December, 1999, personally appeared Edward R. Moynihan known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Kimberly A. Nardine
Notary Public

My Commission Expires:

KIMBERLY ANNE NARDINE, Commis
My Commission Expires Nover

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Hanover, NH,

this 22 day December of, 1999

Paul A. Hoisington

Paul A. Hoisington

L.S.

State of New Hampshire :

: ss.

County of Grafton :

Before me this 22 day of December, 1999, personally appeared Paul A. Hoisington known to me to be the person whose name is subscribed to the foregoing Assignment and acknowledged that he executed the same as his free act and deed for the purposes therein contained.

Kimberly A. Nardine
Notary Public

My Commission Expires:

[Notary's Seal Here]

KIMBERLY ANNE NARDINE, Commissioner of Deeds
My Commission Expires November 6, 2002

IN WITNESS WHEREOF, I hereto set my hand and seal at Hanover, NH,
this 22nd day December of, 1999

Yong Zhou L.S.
Yong Zhou

State of New Hampshire :
: ss.

County of Grafton :

Before me this 22 day of December, 1999, personally appeared
Young Zhou known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.

Kimberly A. Nardine
Notary Public

My Commission Expires:

[Notary's Seal Here]

KIMBERLY ANNE NARDINE, Commissioner of Deeds
My Commission Expires November 6, 2002

IN WITNESS WHEREOF, I hereto set my hand and seal at Hanover, NH,
this 22 day December of, 1999

Amy Brady L.S.
Amy L. Brady

State of New Hampshire :

: ss.

County of Grafton:

Before me this 22 day of December, 1999, personally appeared
Amy L. Brady known to me to be the person whose name is subscribed to the foregoing
Assignment and acknowledged that he executed the same as his free act and deed for the
purposes therein contained.

Kimberly A. Nardine
Notary Public

My Commission Expires:

[Notary's Seal Here]

KIMBERLY ANNE NARDINE, Commissioner of Deeds
My Commission Expires November 6, 2002

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ASSIGNMENT

For valuable consideration, I, ROBERT G. PALIFKA of Oxford, New Hampshire,
Delaware *RGP*
hereby assign to: SPECTRA, INC., a California corporation having a place of business at:

P.O. Box 68C Etna Road
Hanover, NH 03755; 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 me, entitled PIEZOELECTRIC INK JET MODULE WITH SEAL, filed October 5, 1999, and assigned U.S. Serial Number 09/412,827, and I 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 I authorize the Assignee to apply in all countries in my 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 I agree for me and my 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.

IN WITNESS WHEREOF, I hereto set my hand and seal at Lebanon, N.H.
this 20th day of November, 2000

Robert G. Palifka L.S.
Robert G. Palifka

State of N.H. :
: ss.

County of Grafton :

Before me this 20th day of November, 2000, personally
appeared ROBERT G. PALIFKA known to me to be the person whose name is subscribed to the
foregoing Assignment and acknowledged that he executed the same as his free act and deed for
the purposes therein contained.

[Signature]
Notary Public

ROSEMARY C. COPP, Notary Public
My Commission Expires September 15, 2004

My Commission Expires:

[Notary's Seal Here]