

PATENT ASSIGNMENT

Electronic Version v1.1

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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>David Grose</td><td>06/15/1999</td></tr><tr><td>Nathan P. Hine</td><td>06/15/1999</td></tr><tr><td>Paul A. Hoisington</td><td>06/15/1999</td></tr><tr><td>Yong Zhou</td><td>06/15/1999</td></tr></tbody></table>	Name	Execution Date	David Grose	06/15/1999	Nathan P. Hine	06/15/1999	Paul A. Hoisington	06/15/1999	Yong Zhou	06/15/1999	
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David Grose	06/15/1999										
Nathan P. Hine	06/15/1999										
Paul A. Hoisington	06/15/1999										
Yong Zhou	06/15/1999										
RECEIVING PARTY DATA											
Name:	Spectra, Inc.										
Street Address:	88 Etna Road,										
City:	Hanover										
State/Country:	NEW HAMPSHIRE										
Postal Code:	03755										
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>11566371</td></tr></tbody></table>	Property Type	Number	Application Number:	11566371							
Property Type	Number										
Application Number:	11566371										
CORRESPONDENCE DATA											
Fax Number:	(877)769-7945										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	(617) 521-7034										
Email:	morin@fr.com										
Correspondent Name:	Faustino A. Lichauco										
Address Line 1:	FISH & RICHARDSON P.C.										
Address Line 2:	P.O.BOX 1022										
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022										
ATTORNEY DOCKET NUMBER:	09991-003004										
NAME OF SUBMITTER:	Darlene J. Morin										

CH \$40.00 11566371

Total Attachments: 3

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PATENT

REEL: 018848 FRAME: 0816

ASSIGNMENT

For valuable consideration, we, David R. Grose, of Hanover, NH.; Nathan Hine of S. Strafford, VT; Paul Hoisington of Norwich, VT; Peter N. Wallis of Norwich, VT; Yong Zhon of Hanover, NH; and of hereby assign to Spectra, Inc., a Delaware corporation having a place of business at 88 Fina Road, Hanover, NH 03755, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest, including, without limitation, the right to sue for past infringement, throughout the world in the inventions and improvements, which are subject of an application for United States Patent signed by us, entitled SINGLE-PASS INKJET PRINTING, filed March 26, 1999, and assigned U.S. Serial Number 09/277,839, 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, and 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 15 day of June, 1999

David R. Grose L.S.
David R. Grose

STATE OF New Hampshire :

COUNTY OF GRAFTON :ss.

Before me this 15 day of June, 1999, personally appeared

David R. Grose known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Kimberly Anne Nardine
Notary Public

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

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Hanover, NH,
this 15 day of June, 1999


Nathan

Hine

L.S.

STATE OF New Hampshire:

COUNTY OF Grafton:

Before me this 15 day of June, 1999, personally appeared

Nathan Hine known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.


Notary Public

My Commission Expires:

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Hanover, NH,
this 15th day of June, 1999


Paul

Hoisington

L.S.

STATE OF New Hampshire:

COUNTY OF Grafton:

Before me this 15th day of June, 1999, personally appeared

Paul Hoisington known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.


Notary Public

My Commission Expires:

KIMBERLY ANNE NARDONE, Commissioner of State
My Commission Expires November 6, 2002

[Notary's Seal Here]

IN WITNESS WHEREOF, I hereto set my hand and seal at Hanover, NH
this 15 day of June, 1999

Peter N. Wallis L.S.
Peter N. Wallis

STATE OF New Hampshire :

COUNTY OF Grafton :ss.

Before me this 15 day of June, 1999, personally appeared

Peter N. Wallis known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Kimberly Anne Nardine
Notary Public

[Notary's Seal Here]

My Commission Expires: Kimberly Anne Nardine, Commissioner of Deeds
My Commission Expires November 8, 2002

IN WITNESS WHEREOF, I hereto set my hand and seal at Hanover, NH
this 15 day of June, 1999

Yong Zhou L.S.
Yong Zhou

STATE OF New Hampshire :

COUNTY OF Grafton :ss.

Before me this 15th day of June, 1999, personally appeared

Yong Zhou known to me to be the person whose name is subscribed to the foregoing Assignment, and acknowledged that he/she executed the same as his/her free act and deed for the purposes therein contained.

Kimberly Anne Nardine
Notary Public

[Notary's Seal Here]

My Commission Expires: Kimberly Anne Nardine, Commissioner of Deeds
My Commission Expires November 8, 2002

PATENT