

09-21-2001



Docket No. FSI0003/US

RE

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101851246

**To: The Honorable Commissioner of Patents and Trademarks**  
**Please record the attached original document(s) or copy thereof.**

**1. Name of conveying party(ies)/(Execution Date)**

Pam Kunkel July 6, 2001  
 Natraj Narayanswami July 3, 2001  
 John C. Patrin July 20, 2001

9-7-01

**Name and address of receiving party(ies):**

**FSI International, Inc.**  
**322 Lake Hazeltine Drive**  
**Chaska, MN 55318**

Additional names of conveying party(ies) attached?

☐ Yes ☒ No**3. Nature of Conveyance:**

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other

☐ If this is a request for correction of a previously recorded document, a copy of the previously recorded assignment and previous Notice of Recordation is enclosed.

Additional names of receiving party(ies) attached?

☐ Yes ☒ No**4. Application number or patent number:**

☐ This document is being filed with a new patent application on: \_\_\_\_\_  
☒ This document is to be recorded against the following patent application or patent: 09/820,281

☐ **Patent Cooperation Treaty (PCT):**Enter PCT application number only if a U.S. Application Number has not been assigned: \_\_\_\_\_Additional Numbers Attached? ☐ Yes ☒ No**5. Name and address of party to whom correspondence concerning document should be mailed:**

Name: David B. Kagan  
 Kagan Binder, PLLC  
 221 North Main Street, Suite 200  
 Stillwater, MN 55082

Phone Number: 651-275-9804

**6. Total number of applications and patents involved:**1**7. Total fee (37 CFR 3.41) \$40.00**

☒ Enclosed  
☐ Authorized to be charged to deposit account

**8. Deposit Account Number: 50-1775**

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**DO NOT USE THIS SPACE****9. Statement and Signature**

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. Charges to deposit account are authorized, as indicated herein.

David B. Kagan  
 Printed Name of Attorney/Agent  
 Registration No. 33,406

Signature

Date

September 13, 2001**Pages:** Total number of pages including COVER SHEET, attachments and documents:**10**

Mail documents to be recorded with required cover sheet information to:  
 Commissioner for Patents, **Box Assignments**, Washington, DC 20231

(Form PTO-1595 - Modified from PTO's Rev 03/01)

**PATENT**  
**REEL: 012173 FRAME: 0573**

**ASSIGNMENT**

WHEREAS, we, Pam Kunkel, of 8975 County Rd. 151, Cologne, Minnesota 55322; Natraj Narayanswami, of 6038 Delsea Place, San Jose, California 95123; and John C. Patrin of 8572 Drake Ct., Chanhassen, Minnesota 55317, have invented certain new and useful improvements in NOZZLE DESIGN FOR GENERATING FLUID STREAMS USEFUL IN THE MANUFACTURE OF MICROELECTRONIC DEVICES, in which an application was made for Letters Patent of the United States, which is identified in the United States Patent Office by Serial No. 09/820,281, filed March 28, 2001.

WHEREAS, FSI INTERNATIONAL, INC., Corporation of the State of Minnesota, and having an address of 322 Lake Hazeltine Drive, Chaska, Minnesota 55318-1096 is desirous of acquiring the entire right, title and interest in and to said invention, said application and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the said FSI INTERNATIONAL, INC., its successors and assigns, the entire right, title and interest in and to said invention, said application and the Letters Patent, both foreign and domestic, that may or shall issue, including all rights under the International Convention, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the above-mentioned assignee in accordance herewith.

We Further Authorize said assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name, if desired, in any and all foreign countries, and additionally to claim the filing date of said United States application and/or otherwise take advantage of the provisions of the International Convention.

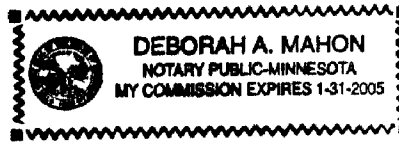
We do hereby covenant and agree with the said assignee, its successors and assigns, that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we or our executors or administrators will, at any time upon request, without further or additional consideration, but at the expense of said assignee, its successors and assigns, execute such additional writings and do such additional acts as said assignee, its successors and assigns, may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights, occurring as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

In Witness Whereof, we have hereunto set our hands and affixed our seals on the date written below.

Pam Kunkel  
Pam Kunkel

07/06/01  
Date

STATE OF Minnesota )  
 )SS.  
COUNTY OF Carver )



On this 6<sup>TH</sup> day of July, 2001, before me personally appeared Pam Kunkel, to me known to be the person described in and who executed the foregoing instrument and acknowledged that she executed the same as her free act and deed.

Deborah A. Mahon  
Notary Public

\_\_\_\_\_  
Natraj Narayanswami

\_\_\_\_\_  
Date

STATE OF \_\_\_\_\_ )  
 )SS.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me personally appeared Natraj Narayanswami, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

\_\_\_\_\_  
Notary Public

## John C. Patrin

Date \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 )SS.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me personally appeared John C. Patrin, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

Notary Public

**ASSIGNMENT**

WHEREAS, we, Pam Kunkel, of 8975 County Rd. 151, Cologne, Minnesota 55322; Natraj Narayanswami, of 6038 Delsea Place, San Jose, California 95123; and John C. Patrin of 8572 Drake Ct., Chanhassen, Minnesota 55317, have invented certain new and useful improvements in NOZZLE DESIGN FOR GENERATING FLUID STREAMS USEFUL IN THE MANUFACTURE OF MICROELECTRONIC DEVICES, in which an application was made for Letters Patent of the United States, which is identified in the United States Patent Office by Serial No. 09/820,281, filed March 28, 2001.

WHEREAS, FSI INTERNATIONAL, INC., Corporation of the State of Minnesota, and having an address of 322 Lake Hazeltine Drive, Chaska, Minnesota 55318-1096 is desirous of acquiring the entire right, title and interest in and to said invention, said application and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the said FSI INTERNATIONAL, INC., its successors and assigns, the entire right, title and interest in and to said invention, said application and the Letters Patent, both foreign and domestic, that may or shall issue, including all rights under the International Convention, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the above-mentioned assignee in accordance herewith.

We Further Authorize said assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name, if desired, in any and all foreign countries, and additionally to claim the filing date of said United States application and/or otherwise take advantage of the provisions of the International Convention.

We do hereby covenant and agree with the said assignee, its successors and assigns, that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we or our executors or administrators will, at any time upon request, without further or additional consideration, but at the expense of said assignee, its successors and assigns, execute such additional writings and do such additional acts as said assignee, its successors and assigns, may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights, occurring as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

In Witness Whereof, we have hereunto set our hands and affixed our seals on the date written below.

\_\_\_\_\_  
Pam Kunkel

\_\_\_\_\_  
Date

STATE OF \_\_\_\_\_ )  
 )SS.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, before me personally appeared Pam Kunkel, to me known to be the person described in and who executed the foregoing instrument and acknowledged that she executed the same as her free act and deed.

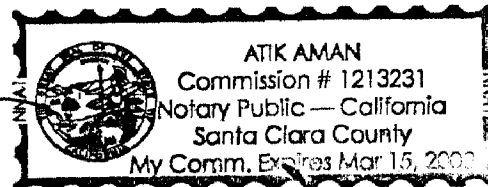
\_\_\_\_\_  
Notary Public

Natraj Narayanswami 07/03/2001  
\_\_\_\_\_  
Date

STATE OF California )  
 )SS.  
COUNTY OF Santa Clara )

On this 3rd day of July 2001, before me personally appeared Natraj Narayanswami, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

Atik Aman  
\_\_\_\_\_  
Notary Public ATIK AMAN



Date \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 )SS.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me personally appeared John C. Patrin, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

**Notary Public**

**ASSIGNMENT**

WHEREAS, we, Pam Kunkel, of 8975 County Rd. 151, Cologne, Minnesota 55322; Natraj Narayanswami, of 6038 Delsea Place, San Jose, California 95123; and John C. Patrin of 8572 Drake Ct., Chanhassen, Minnesota 55317, have invented certain new and useful improvements in NOZZLE DESIGN FOR GENERATING FLUID STREAMS USEFUL IN THE MANUFACTURE OF MICROELECTRONIC DEVICES, in which an application was made for Letters Patent of the United States, which is identified in the United States Patent Office by Serial No. 09/820,281, filed March 28, 2001.

WHEREAS, FSI INTERNATIONAL, INC., Corporation of the State of Minnesota, and having an address of 322 Lake Hazeltine Drive, Chaska, Minnesota 55318-1096 is desirous of acquiring the entire right, title and interest in and to said invention, said application and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred, and by these presents do hereby sell, assign and transfer unto the said FSI INTERNATIONAL, INC., its successors and assigns, the entire right, title and interest in and to said invention, said application and the Letters Patent, both foreign and domestic, that may or shall issue, including all rights under the International Convention, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the above-mentioned assignee in accordance herewith.

We Further Authorize said assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name, if desired, in any and all foreign countries, and additionally to claim the filing date of said United States application and/or otherwise take advantage of the provisions of the International Convention.

We do hereby covenant and agree with the said assignee, its successors and assigns, that we will not execute any writing or do any act whatsoever conflicting with these presents, and that we or our executors or administrators will, at any time upon request, without further or additional consideration, but at the expense of said assignee, its successors and assigns, execute such additional writings and do such additional acts as said assignee, its successors and assigns, may deem necessary or desirable to perfect the assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissued or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights, occurring as a result of such applications or patents, by giving testimony in any proceedings or transactions involving such applications or patents.



In Witness Whereof, we have hereunto set our hands and affixed our seals on the date written below.

Pam Kunkel

Date \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 )SS.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me personally appeared Pam Kunkel, to me known to be the person described in and who executed the foregoing instrument and acknowledged that she executed the same as her free act and deed.

## Notary Public

Natraj Narayanswami

Date \_\_\_\_\_

STATE OF \_\_\_\_\_ )  
 )SS.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me personally appeared Natraj Narayanswami, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

Notary Public

John C. Patrin 7/20/01  
John C. Patrin Date

STATE OF Minnesota )  
 )SS.  
COUNTY OF Hennepin )

On this 20<sup>th</sup> day of July, 2001, before me personally appeared John C. Patrin, to me known to be the person described in and who executed the foregoing instrument and acknowledged that he executed the same as his free act and deed.

Nancy C. Tracy  
Notary Public

