

03-26-2003

FORM PTO-1595  
(Rev. 06/93)U.S. Department of Commerce  
Patent and Trademark Office

OMB No. 0651-0011 (Exp. 04/94)

102400685

Attorney Docket No.: NANO-00500

Assistant Commissioner for Patents  
Washington, D.C. 20231

3-24-03

Sir:

Please record the attached original documents or copy thereof.

|  |   |
|--|---|
| 1. Name of conveying party(ies):<br><br>Colin Bulthaup<br>Christopher J. Spindt<br><br>— Additional name(s) of conveying party(ies) attached.  | 2. Name and address of receiving party(ies):<br><br>KOVIO, INC.<br>3696 Haven Avenue, Suite C<br>Redwood City, California 94063<br><br>— Additional name(s) and address(es) attached.   |
| 3. Nature of conveyance:<br><br><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger<br><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name<br><input type="checkbox"/> Other: _____<br><br>Execution Date: <u>Executed by: Colin A. Bulthaup on: February 28, 2003, and Executed by: Christopher J. Spindt on: March 18, 2003</u>                   |   |
| 4. Application number(s) or patent number(s):<br><br>— This document is being filed together with a new application, the execution date of the application is:<br><input checked="" type="checkbox"/> Patent Application Serial No.(s): <u>10/251,103</u> filed on <u>September 20, 2002</u> .<br><input type="checkbox"/> Patent No.(s): _____<br><input type="checkbox"/> Additional numbers attached. _____ |   |
| 5. Name and address of party to whom correspondence concerning document should be mailed:<br><br>Thomas B. Haverstock<br>HAVERSTOCK & OWENS LLP<br>162 North Wolfe Road<br>Sunnyvale, California 94086   | 6. Total number of applications and patents involved: _____<br><br>7. Total fee(s) [37 CFR §§ 1.21(h) and 3.41]:<br><br><input checked="" type="checkbox"/> Check(s) in the amount of \$ <u>40.00</u> enclosed.<br><br>8. Authorization to Charge Additional Fees:<br><br><input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees or credit any overpayment associated with this communication and which may be required under 37 CFR §§ 1.21(h) and 3.41 to Deposit Account No. <u>08-1275</u> . |
| 9. 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.<br><br>Dated: <u>March 18, 2003</u><br>Signature: <u>Thomas B. Haverstock</u><br>Name: <u>Thomas B. Haverstock</u><br>Reg. No.: <u>32,571</u><br><br>Total number of pages including cover sheet, attachments, and document: <u>3</u>                  |   |

FINANCE SECTION

MAR 24 AM 7:48

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40.00 UP

PATENT  
REEL: 013866 FRAME: 0274

ASSIGNMENT

WHEREAS, WE, Colin A. Bulthaup and Christopher J. Spindt hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: METHODS FOR PATTERNING USING LIQUID EMBOSING

Date of execution of application: \_\_\_\_\_ Filing Date: September 20, 2002 Serial No.: 10/251,103

WHEREAS, Kovio, Inc., a corporation of the State of Delaware, 3696 Haven Avenue Suite C, Redwood City, California 94036 hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee, and Assignee's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any Letters Patent.

Assignors further agree that they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have hereunto signed their names to this assignment on the dates indicated below.

Colin A. Bulthaup  
Colin A. Bulthaup

Feb 28, 2003  
Date

\_\_\_\_\_  
Christopher J. Spindt

\_\_\_\_\_  
Date

STATE OF Calif.

COUNTY OF Santa Clara

On Feb. 28, 2003 before me, Juanita Cordova  
personally appeared Colin A. Bulthaup and Christopher J. Spindt

☐ personally known to me - OR - ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose names are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.



Juanita Cordova  
Signature of Notary Public

ASSIGNMENT

WHEREAS, WE, Colin A. Bulthaup and Christopher J. Spindt hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: METHODS FOR PATTERNING USING LIQUID EMBOSING

Date of execution of application: \_\_\_\_\_ Filing Date: September 20, 2002 Serial No.: 10/251,103

WHEREAS, Kovio, Inc., a corporation of the State of Delaware, 3696 Haven Avenue Suite C, Redwood City, California 94036 hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, receipt of which is hereby acknowledged, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee, and Assignee's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any Letters Patent.

Assignors further agree that they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have hereunto signed their names to this assignment on the dates indicated below.

\_\_\_\_\_  
Colin A. Bulthaup

\_\_\_\_\_  
Date

*[Signature]*  
Christopher J. Spindt

3/18/03  
Date

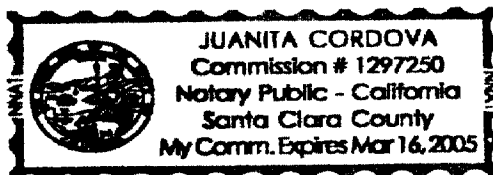
STATE OF Calif

COUNTY OF Santa Clara

On March 18, 2003 before me,

personally appeared Colin A. Bulthaup and Christopher J. Spindt

☐ personally known to me - OR - ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose names are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



SEAL

WITNESS my hand and official seal.

*[Signature]*  
Signature of Notary Public

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|                                    |   |                             |
|------------------------------------|---|-----------------------------|
| In re Application of:              | ) | Group Art Unit: 2812        |
|                                    | ) | Examiner:                   |
| Colin Bulthaup <i>et al</i>        | ) |                             |
|                                    | ) | <b>TRANSMITTAL LETTER</b>   |
| Serial No.: 10/251,103             | ) |                             |
|                                    | ) | 162 North Wolfe Road        |
| Filed: September 20, 2002          | ) | Sunnyvale, California 94086 |
|                                    | ) | (408) 530-9700              |
| For: <b>METHODS FOR PATTERNING</b> | ) |                             |
| <b>USING LIQUID EMBOSsing</b>      | ) |                             |

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Box Assignments  
Assistant Commissioner of Patents  
Washington, D.C. 20231

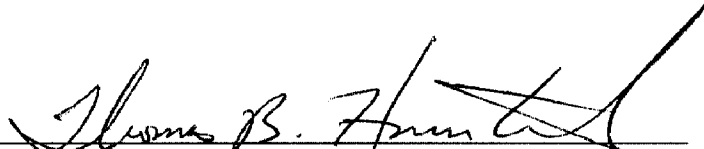
Sir:

Enclosed please find the PTO-1595 and assignment for filing with the U.S. Patent and Trademark Office. Also attached is a check in the amount of \$40.00 to cover the assignment recordation fee.

The Commissioner is authorized to charge any additional fee or credit any overpayment to our Deposit Account No. 08-1275. **An originally executed duplicate of this transmittal is enclosed for this purpose.**

Respectfully submitted,  
HAVERSTOCK & OWENS LLP

Dated: March 18, 2003

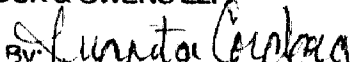
By:   
Thomas B. Haverstock  
Reg. No.: 32,571

Attorneys for Applicants

CERTIFICATE OF MAILING (37 CFR § 1.8(a)),  
I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Assistant Commissioner for Patents, Washington D.C. 20231

- 1 -

HAVERSTOCK & OWENS LLP

Date: 3-18-03 By: 

PATENT

RECORDED: 03/24/2003

REEL: 013866 FRAME: 0277