

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>Wenzhuo GUO</td> <td>08/21/2013</td> </tr> <tr> <td>Dmitry KARSHTEDT</td> <td>08/19/2013</td> </tr> <tr> <td>Vladimir K. DIOUMAEV</td> <td>08/21/2013</td> </tr> </tbody> </table>		Name	Execution Date	Wenzhuo GUO	08/21/2013	Dmitry KARSHTEDT	08/19/2013	Vladimir K. DIOUMAEV	08/21/2013
Name	Execution Date								
Wenzhuo GUO	08/21/2013								
Dmitry KARSHTEDT	08/19/2013								
Vladimir K. DIOUMAEV	08/21/2013								
RECEIVING PARTY DATA									
Name:	Kovio, Inc.								
Street Address:	2865 Zanker Road								
City:	San Jose								
State/Country:	CALIFORNIA								
Postal Code:	95134								
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>12114741</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12114741				
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Application Number:	12114741								
CORRESPONDENCE DATA									
Fax Number:	4089389069								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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Correspondent Name:	Murabito Hao & Barnes LLP								
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Address Line 4:	San Jose, CALIFORNIA 95113								
ATTORNEY DOCKET NUMBER:	IDR1102								
NAME OF SUBMITTER:	Andrew D. Fortney, Ph.D., Reg. No. 34600								
Signature:	/Andrew D. Fortney/								
Date:	08/27/2013								

CH \$40.00 12114741

Total Attachments: 4

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ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned,

Wenzhuo GUO

Dmitry KARSHTEDT

Vladimir K. DIOUMAEV

who have created a certain invention for which an application for United States Letters Patent was executed by me concurrently herewith and entitled:

Print Processing for Patterned Conductor, Semiconductor and Dielectric Materials

Do hereby sell, assign and transfer to Kovio, Inc., a corporation of Delaware, having a place of business at 2865 Zanker Road, San Jose, CA 95134

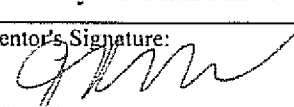
its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Agree that Kovio, Inc., hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN TESTIMONY WHEREOF I have hereunto set MY signature on the date indicated below.

Full Name of Sole/First Inventor: Wenzhuo GUO	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Second Inventor, if any: Dmitry KARSHTEDT	
Inventor's Signature: 	Date: Month/Day/Year 8/19/13

Attorney Docket No.: **IDR1102**

Full Name of Third Inventor, if any: Vladimir K. DIOUMAEV	
Inventor's Signature: <i>V. Dione</i>	Date: Month/Day/Year 08/21/2013

Full Name of Fourth Inventor, if any:	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Fifth Inventor, if any:	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Sixth Inventor, if any:	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Seventh Inventor, if any:	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Eighth Inventor, if any:	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Ninth Inventor, if any:	
Inventor's Signature:	Date: Month/Day/Year

Attorney Docket No.: IDR1102

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned,

Wenzhuo GUO

Dmitry KARSHTEDT

Vladimir K. DIOUMAEV

who have created a certain invention for which an application for United States Letters Patent was executed by me concurrently herewith and entitled:

Print Processing for Patterned Conductor, Semiconductor and Dielectric Materials

Do hereby sell, assign and transfer to **Kovio, Inc.**, a corporation of **Delaware**, having a place of business at **2865 Zanker Road, San Jose, CA 95134**

its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Agree that **Kovio, Inc.**, hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

IN TESTIMONY WHEREOF I have hereunto set MY signature on the date indicated below.

Full Name of Sole/First Inventor: Wenzhuo GUO	
Inventor's Signature: <i>Wenzhuo Guo</i>	Date: Month/Day/Year <i>9-21-2013</i>

Full Name of Second Inventor, if any: Dmitry KARSHTEDT	
Inventor's Signature:	Date: Month/Day/Year

Attorney Docket No.: **IDR1102**

Full Name of Third Inventor, if any: Vladimir K. DIOUMAEV	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Fourth Inventor, if any:	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Fifth Inventor, if any:	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Sixth Inventor, if any:	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Seventh Inventor, if any:	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Eighth Inventor, if any:	
Inventor's Signature:	Date: Month/Day/Year

Full Name of Ninth Inventor, if any:	
Inventor's Signature:	Date: Month/Day/Year