

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>Boris Kolodin</td><td>02/21/2008</td></tr><tr><td>James Reginelli</td><td>02/21/2008</td></tr></tbody></table>	Name	Execution Date	Boris Kolodin	02/21/2008	James Reginelli	02/21/2008	
Name	Execution Date						
Boris Kolodin	02/21/2008						
James Reginelli	02/21/2008						
RECEIVING PARTY DATA							
Name:	LUMINATION LLC						
Street Address:	6180 Halle Drive						
City:	Valley View						
State/Country:	OHIO						
Postal Code:	44125-4635						
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>12038200</td></tr></tbody></table>	Property Type	Number	Application Number:	12038200			
Property Type	Number						
Application Number:	12038200						
CORRESPONDENCE DATA							
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NAME OF SUBMITTER:	Robert M. Sieg						
Total Attachments: 3 source=488Assignment#page1.tif source=488Assignment#page2.tif source=488Assignment#page3.tif							

OP \$40.00 12038200

PATENT

500473780

REEL: 020568 FRAME: 0622

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I/We, the undersigned, **Boris Kolodin** of 2634 Brentwood Road, Beachwood, OH 44122 and **James Reginelli** of 1647 Winterpark Drive, Parma, OH 44134 ("Inventor(s)") who has/have created a certain invention for which a U.S. Patent Application has been

☒ executed concurrently herewith
☐ executed on _____
☐ filed _____, and assigned Application Serial No. _____

and is entitled

PRINTED CIRCUIT BOARD FOR DIRECT FLIP CHIP ATTACHMENT

hereby sell, assign and transfer to **LUMINATION LLC**, ("Assignee"), a corporation of the State of Delaware, having a place of business at **6180 Halle Drive, Valley View, Ohio 44125-4635**, its successors, assigns, nominees or other legal representatives, the full, exclusive, entire worldwide rights, title and interest in, to, and under said invention as described and claimed in said application, including any provisional application(s) from which it claims priority, the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, nominees, or other legal representatives, to the end of the term or terms for which said Letters Patent are or may be granted, reissued, or extended, as fully and entirely as the same would have been held and enjoyed by Inventor(s) if this assignment and sale had not been made; all of the entire rights, title and interest in and to said invention and said application, and all original and reissued patents granted for said invention, and all divisions, reissues, continuations-in-part, and continuations of said application, including the subject matter of any and all claims which may be obtained in every patent, and the right, where such right can be legally exercised, in Assignee's own name to apply for and obtain patents in countries foreign to the United States, including the full right to claim for any such application the benefits of the International Convention and the Patent Cooperation Treaty as fully and entirely as Inventor(s) could have done if the foreign application had been filed in the names of the Inventor(s), and the entire interest in any Letters Patent which may be granted on any such application in such foreign countries, and Inventor(s) authorize(s) and request(s) the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty is to issue patents on applications as aforesaid, to issue the said Letters Patent to Assignee, its successors, assigns, nominees, or other legal representatives, as Assignee and owner of the said entire rights, and Inventor(s) covenant(s) that Inventor(s) has/have the full right to convey the said entire interest herein assigned and that Inventor(s) has/have not executed and will not execute any agreement in conflict herewith, and Inventor(s) will communicate to Assignee, its successors, assigns, nominees, or other legal representatives all facts known to Inventor(s) respecting said invention, whenever requested, and testify in any legal

proceedings, sign all lawful papers, execute and deliver all divisional, continuing, and reissue applications, make all rightful oaths or declarations, and do all lawful acts requisite for the application for such divisional, continuing, or reissue applications, or the procuring thereof, and that if and when Assignee, its successors, assigns, nominees, or other legal representatives desire to file a disclaimer relating thereto, Inventor(s) will, upon request, sign and deliver all lawful papers requisite for the filing of such disclaimer; and

Inventor(s) further covenant(s) and agree(s) that Inventor(s) will, at any time upon request, do everything possible to aid Assignee, its successors, assigns, nominees, or other legal representatives, either in the name of Inventor(s) or Assignee, to apply for, obtain, and enforce proper patent protection for said invention in all countries, according to the International Convention and the Patent Cooperation Treaty, and all the laws and treaties in force, all without further consideration but at the expense of Assignee, its successors, assigns, nominees, or other legal representatives.

Signed at the City of Valley View State of Ohio
on this 21 day of February, 2008.

Boris Kolodin
Boris Kolodin

State of Ohio)
County of Cuyahoga) ss:

On this 21st day of February, 2008 before me personally came Boris Kolodin, to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Pamela S. Brown
Notary Public

Seal

Pamela S. Brown
Notary Public, State of Ohio
My Commission Expires 12.1.2008

Signed at the City of Village View State of Ohio
on this 21 day of February, 2008.

[Signature]
James Reginelli

State of Ohio)
County of Cuyahoga)ss:
)

On this 21st day of February, 2008 before me
personally came James Reginelli, to me known to be the individual described in and
who executed the foregoing instrument, and acknowledged execution of the same.

Pamela S. Brown
Notary Public

Seal

Pamela S. Brown
Notary Public, State of Ohio
My Commission Expires 12.1.2008

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