

## 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>VLADIMIR BULOVIC</td> <td>10/23/2003</td> </tr> <tr> <td>JONATHAN R. TISCHLER</td> <td>10/23/2003</td> </tr> <tr> <td>JENNIFER YU</td> <td>10/23/2003</td> </tr> </tbody> </table>		Name	Execution Date	VLADIMIR BULOVIC	10/23/2003	JONATHAN R. TISCHLER	10/23/2003	JENNIFER YU	10/23/2003		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>MASSACHUSETTS INSTITUTE OF TECHNOLOGY</td> </tr> <tr> <td>Street Address:</td> <td>77 MASSACHUSETTS AVENUE</td> </tr> <tr> <td>City:</td> <td>CAMBRIDGE</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02139</td> </tr> </table>		Name:	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	Street Address:	77 MASSACHUSETTS AVENUE	City:	CAMBRIDGE	State/Country:	MASSACHUSETTS	Postal Code:	02139
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: 2155686499</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (215) 568-6400</p> <p>Email: hgraves@vklaw.com</p> <p>Correspondent Name: VOLPE AND KOENIG, P.C.</p> <p>Address Line 1: UNITED PLAZA</p> <p>Address Line 2: 30 SOUTH 17TH STREET</p> <p>Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103</p>											
ATTORNEY DOCKET NUMBER:	MIT-PT10302										
NAME OF SUBMITTER:	Abhik A. Huq										
<p>Total Attachments: 5</p> <p>source=MIT_PT10302_Assignment#page1.tif</p> <p>source=MIT_PT10302_Assignment#page2.tif</p> <p>source=MIT_PT10302_Assignment#page3.tif</p> <p>source=MIT_PT10302_Assignment#page4.tif</p> <p>source=MIT_PT10302_Assignment#page5.tif</p>											

CH \$40.00 13606487

## ASSIGNMENT

WHEREAS, we,

Vladimir BULOVIC  
16 Lillian Road  
Lexington, MA 02420  
Citizenship: Serbia and Montenegro – Yugoslavia)

Jonathan R. TISCHLER  
17 Ames Street  
Sharon, MA 02067  
Citizenship: United States of America

Jennifer YU  
7 Regina Drive  
Chelmsford, MA 01824  
Citizenship: United States of America

have made new and useful improvements in **LED ARRAY WITH PHOTODETECTOR**, for which an application for Letters Patent was filed on October 23, 2003 and has been assigned Application Number \_\_\_\_\_; and

WHEREAS, **MASSACHUSETTS INSTITUTE OF TECHNOLOGY**, a corporation duly organized and existing under and by virtue of the laws of Delaware, and having its principal place of business at **77 Massachusetts Avenue, Cambridge, MA 02139, U.S.A.**, (hereinafter "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to said application and the invention therein described and claimed, and to any Letters Patent that may be granted therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, in consideration for One U.S. Dollar (U.S. \$1.00) and other valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer, and convey to Assignee the entire right, title, and interest in and to any inventions and discoveries described in said application, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in any and all countries, including all divisional, renewal, reissue, re-examination, substitute, continuation, international, foreign and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications, and said Letters Patent.

2. Authorize Assignee to file patent applications in any or all countries for any or all of

said inventions and discoveries in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under an International Convention or otherwise.

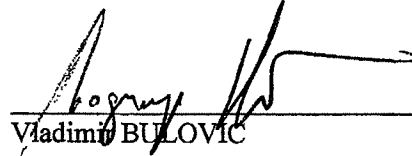
3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as Assignee of the entire right, title, and interest therein or otherwise as Assignee may direct.

4. Warrant that we have not conveyed to others any right, title, or interest in said inventions, discoveries, applications, or patents or any license to use the same or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; that we have good right to assign the same to Assignee without encumbrance; and that we are ware of no claim to the contrary.

5. Bind our heirs, legal representatives, and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications, and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me, my heirs, legal representatives, and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in my control or in the control of my heirs, legal representatives, or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries; and to testify to the same in any interference, arbitration, or litigation.


12901/1

IN TESTIMONY WHEREOF, we have hereunto set our hands and seals this 23<sup>th</sup> day of October, 2003.

  
Vladimir BULOVIC

Witness: SARA A. Frontier

Address: Cambridge

COMMONWEALTH OF MASSACHUSETTS Holliston  
Date October 23, 2003  
  
NOTARY PUBLIC  
MY COMMISSION EXPIRES ON: March 14, 2008

12901/1

IN TESTIMONY WHEREOF, we have hereunto set our hands and seals this 23<sup>th</sup> day  
of October, 2003.

Jonathan R. Tischler  
Jonathan R. TISCHLER

Witness: Sara A Frenier

Address: Cambridge

COMMONWEALTH OF MASSACHUSETTS, Middlesex, ss  
Date October 23, 2003  
Sara Frenier  
NOTARY PUBLIC  
My COMMISSION EXPIRES ON March 14, 2008

12901/1

IN TESTIMONY WHEREOF, we have hereunto set our hands and seals this 23<sup>rd</sup> day  
of October, 2003.

Jennifer Yu  
Jennifer YU

Witness: SARA A. Frenier

Address: Cambridge

COMMONWEALTH OF MASSACHUSETTS, Middlesex, ss  
Date October 23, 2003

[Signature]  
NOTARY PUBLIC  
MY COMMISSION EXPIRES ON: March 14, 2008