

# PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
EFFECTIVE DATE:	05/24/2004								
<b>CONVEYING PARTY DATA</b>									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Rene Gerrit Heideman</td> <td>05/24/2004</td> </tr> <tr> <td>Marcel Hoekman</td> <td>05/24/2004</td> </tr> </tbody> </table>		Name	Execution Date	Rene Gerrit Heideman	05/24/2004	Marcel Hoekman	05/24/2004		
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<b>RECEIVING PARTY DATA</b>									
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>LioniX BV</td> </tr> <tr> <td>Street Address:</td> <td>PO Box 456</td> </tr> <tr> <td>City:</td> <td>7500 AH Enschede</td> </tr> <tr> <td>State/Country:</td> <td>NETHERLANDS</td> </tr> </table>		Name:	LioniX BV	Street Address:	PO Box 456	City:	7500 AH Enschede	State/Country:	NETHERLANDS
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<b>PROPERTY NUMBERS Total: 1</b>									
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<b>CORRESPONDENCE DATA</b>									
<p>Fax Number: (733)578-0104</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 732-578-0103</p> <p>Email: kelly@dblaw.com</p> <p>Correspondent Name: Kelly Kline</p> <p>Address Line 1: 100 Commons Way</p> <p>Address Line 2: Ste 250</p> <p>Address Line 4: Holmdel, NEW JERSEY 07733</p>									
NAME OF SUBMITTER:	Kelly Kline								
<p>Total Attachments: 2</p> <p>source=Signed Assignment (145-001us)#page1.tif</p> <p>source=Signed Assignment (145-001us)#page2.tif</p>									

OP \$40.00 10756627

**500001372**

**PATENT**  
**REEL: 014764 FRAME: 0583**

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE  
Assignment and Agreement

For value received, we, **Rene Gerrit Heideman**, of Oldenzaal, The Netherlands, **Marcel Hoekman** of Enschede, The Netherlands, hereby sell, assign and transfer to LioniX BV, a corporation of The Netherlands, having an office at PO Box 456, 7500 AH Enschede, The Netherlands, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions entitled **Low Modal Birefringent Waveguides and Method of Fabrication**, the specification of which was filed on January 13, 2004 and assigned Serial Number: 10/756627, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to LioniX BV the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.


We authorize LioniX BV to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of LioniX BV to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patents for said inventions be issued to LioniX BV in the United States and in all countries foreign to the United States, or to such nominees as LioniX BV may designate.

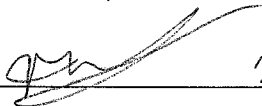
We agree that, when requested, we shall, without charge to LioniX BV but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.


 24-05-2004  
Signature of **Rene Gerrit Heideman** and Date Signed

 24-05-2004  
Witness or Notary's Signature and Date

Serial Number: 10/756627

Docket: 145-001US

 24-05-2004  
Signature of **Marcel Hoekman** and Date Signed

 24-05-2004  
Witness or Notary's Signature and Date

DeMont & Breyer, LLC  
Suite 250  
100 Commons Way  
Holmdel, NJ 07733  
United States of America