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Form PTO-1595

(Rev. 10/02)

RE

U.S. DEPARTMENT OF COMMERCE  
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OMB No. 0651-0027 (exp. 6/30/2005)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Heideman, Rene Gerrit  
Hoekman, Marcel

H3-21

## 2. Name and address of receiving party(ies)

Name: LioniX, BV

Internal Address: \_\_\_\_\_

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other \_\_\_\_\_

Execution Date: 1/12/2004

Street Address: PO Box 456

7500 AH Enschede, The Netherlands

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 1/13/2004

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: DeMont &amp; Breyer, LLC

Internal Address: \_\_\_\_\_

01/15/2004 SZEWDIE1 00000092 10756627

04 FC:8021

40.00 OP

Street Address: Suite 250

100 Commons Way

City: Holmdel State: NJ Zip: 07733

## 6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40



Enclosed



Authorized to be charged to deposit account

## 8. Deposit account number: \_\_\_\_\_

DO NOT USE THIS SPACE

## 9. Signature.

Jason Paul DeMont  
Name of Person Signing

Signature

1/13/2004  
Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231PATENT  
REEL: 014935 FRAME: 0239

Docket: 145-001US

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE  
Assignment and Agreement

For value received, we, **Rene Gerrit Heideman**, of LioniX BV, The Netherlands, **Marcel Hoekman** of LioniX BV, 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 Manufacture**, the specification of which is attached hereto, 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.

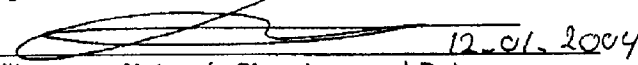
We authorize LioniX, BV to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from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

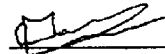
We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.


We request that any and all patents for said inventions be issued to 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.

 12-01-2004  
Signature of **Rene Gerrit Heideman** and Date Signed

 12-01-2004 Dr. H.H. VAN DEN VLEKKERT  
Witness or Notary's Signature and Date

 Jan 12<sup>th</sup> 2004  
Signature of **Marcel Hoekman** and Date Signed

 12-01-2004 Dr. H.H. VAN DEN VLEKKERT  
Witness or Notary's Signature and Date

Docket: 145-001US

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

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RECORDED: 01/13/2004

PATENT  
REEL: 014935 FRAME: 0241

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