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

1. Name of conveying party(ies):
   1. Tobin J. Marks
   2. Qingwu Wang

2. Name and address of receiving party(ies):
   Name: Northwestern University
   Internal Address: 633 Clark Street
   Evanston, IL 60208

3. Nature of conveyance:
   - [X] Assignment
   - [ ] Merger
   - [ ] Security Agreement
   - [ ] Change of Name
   - [ ] Other

   Execution Date

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:
   A. Patent Application No.(s) 09/360,249
   B. Patent No.(s):

   Additional Numbers attached? [ ] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:
   Name: Rodney D. DeKruif
   Internal Address: 1000 N. Water Street, Suite 2100
   Milwaukee, WI 53202-3186

   Street Address: Reinhardt, Boerner, Van Deuren, Norris & Rieselbach, s.c.
   1000 North Water Street
   Milwaukee State: WI ZIP: 53203-3186

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41)……. $ 40.00
   [X] Enclosed
   [ ] Authorized to be charged to deposit account
   [X] Any deficiencies in enclosed fee should be charged to Deposit Account.

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   To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

   [Signature]

   Name of Person Signing: Rodney D. DeKruif
   Date: November 24, 1999

Total number of pages including cover sheet, attachments, and document: [4]
ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar ($1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

(inventor(s) or
person(s) or entity(ies)
who own the invention)  

Tobin J. Marks  
(Type or print name(s) of ASSIGNOR(S))

[Signature]

2300 Central Park Avenue, Evanston, IL 60201  
(Address)  
American  
(Nationality)

(inventor(s) or
person(s) or entity(ies)
who own the invention)

Qingwu Wang  
(Type or print name(s) of ASSIGNOR(S))

[Signature]

7667 North Sheridan Road, #2D, Chicago, IL 60626  
(Address)  
Chinese  
(Nationality)

(inventor(s) or
person(s) or entity(ies)
who own the invention)  

[Signature]  

(Address)  
(Nationality)
Recorded on __________________________
   Reel __________________________
   Frame __________________________

hereby sells, assigns and transfers to

ASSIGNEE:

________________________________________
Northwestern University
(Type or print name of ASSIGNEE)

_______________________________
633 Clark Street

_______________________________
Evanston, IL 60208
(Address)

_______________________________
American
(Nationality)

and the successors, assigns and legal representatives of the ASSIGNEE
(complete one of the following)

[X] the entire right, title and interest
[] an undivided ______________ percent (___________ %) interest
   for the United States and its territorial possessions

(check the following box if foreign rights are also to be assigned)

[X] and in all foreign countries, including all rights to claim priority,
in and to any and all improvements which are disclosed in the invention entitled:

ORGANIC LIGHT-EMITTING DIODES AND METHODS FOR ASSEMBLY
   AND EMISSION CONTROL

(check and complete (a), (b), (c) or (d))

and which is found in

(a) [] U.S. patent application executed on even date herewith
(b) [] U.S. patent application executed on __________________________
   [] To comply with 37 CFR 3.21 for recordal of this assignment, I, an
      ASSIGNOR signing below, hereby authorize and request my attorney, as
      named in the Declaration and Power of Attorney I executed for this
      invention on the execution date stated above, to insert below the
      filing date and application number when it becomes known.
(c) [X] U.S. application serial no. 09/360,249 filed on ________ July 23, 1999 ________
(d) [] U.S. patent no. ______________________ issued ______________________

[] A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (e) if foreign application(s) is also being assigned)

(e) [X] and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment,

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand the date indicated below.

WARNING: Date of signing must be the same as the date of execution of the application if item (a) was checked above.

Signature of ASSIGNOR(S)

Tobin J. Marks __________________________ 10/20/99

Qingwu Wang __________________________ 11/1/99

(Date)

(Date)

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized then it will only be prima facie evidence of execution 35 USC 261. Use next page if notarization is desired.

[] Notarization or Legalization Page Added.