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

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

   Additional name(s) of conveying party(ies) attached? [ ] Yes [ ] No

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

   Street Address: SAME AS ABOVE

   City: _______ State: _______ ZIP: _______

   Additional name(s) & address(es) attached? [ ] Yes [ ] No

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 [ ] 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
   - City 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

8. **Deposit account number:**
   - 18-0882
   - (Attach duplicate copy of this page if paying by deposit account)

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9. **Statement and signature.**
   - 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.
   - Rodney D. DeKruif
   - Name of Person Signing
   - Signature
   - November 24, 1999

   Total number of pages including cover sheet, attachments, and document: 4

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

**PATENT**
REEL: 010400 FRAME: 0944
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:

(Tobin J. Marks)  
2300 Central Park Avenue, Evanston, IL 60201  
American  

(Qingwu Wang)  
7667 North Sheridan Road, #2D, Chicago, IL 60626  
Chinese  

MW/546216RDD:REG 10/11/1999
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

(check 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)

\[ Signature \]

Tobin J. Marks 10/20/99
(Date)

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.