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TO THE HONORABLE COMMISSIONER OF PATENTS AND TRADEMARKS  
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1. Name of conveying party(ies):  
**Qiming Zhang**
2. Name and address of receiving party(ies):  
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**113 Technology Center**  
**200 Innovation Boulevard**  
**University Park, Pennsylvania 16802-7000**
3. Nature of conveyance:  
XXXXX Assignment \_\_\_\_\_ Merger  
\_\_\_\_\_ Security Agreement \_\_\_\_\_ Change of Name  
\_\_\_\_\_ Other: \_\_\_\_\_  
Execution Date: **May 30, 2001**
4. Application number(s) or application date(s):  
If this document is being filed together with a new application, the execution date of the application is:  
A. Patent No. B. Issue Date
5. Name and address of party to whom correspondence concerning this document should be mailed:  
**Paul D. Greeley, Esq.**  
**Ohlandt, Greeley, Ruggiero & Perle, L.L.P.**  
**One Landmark Square, 10th Floor**  
**Stamford, Connecticut 06901-2682 U.S.A.**
6. Total No. of applications and patents involved: 1.
7. Total Fee (37 C.F.R. 3.41(h)) \$40.00/assignment.  
X Enclosed  
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The Commissioner is hereby authorized to charge any additional fees under 37 C.F.R. 3.41 that may be required with this communication or credit any overpayment, to Deposit Account No. 01-0467. A duplicate copy of this Form is enclosed.

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.

Paul D. Greeley  
Name of Person Signing

  
Signature

July 10, 2001  
Date

Total number of pages including cover sheet, attachments and document: 2.

**PATENT**  
**REEL: 011980 FRAME: 0940**

**ASSIGNMENT**

FOR VALUE RECEIVED, WE, SHIZHOU YIN, PAUL KURTZ, KARL REICHARD, HONGYU LIU, AND QIMING ZHANG,  
hereby sell, assign and transfer unto THE PENN STATE RESEARCH FOUNDATION

as assignee, and its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by us and disclosed and claimed in an application for Letters Patent of the United States of America, entitled:

"SINGLE RESONANT BAND, TUNABLE OPTICAL FIBER WAVELENGTH FILTER BASED ON LONG-PERIOD FIBER GRATING"

signed by us on the date set forth below; and in and to any and all divisions, reissues, continuations and extensions thereof; and in and to all corresponding applications for Letters Patent and all Convention and Treaty Rights of any kind, in all countries throughout the world, for all such subject matter.

We request that any and all patents for said inventions be issued to said assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment. consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at University Park, Pennsylvania, this \_\_\_\_\_ day of \_\_\_\_\_, 2001.

Witness: \_\_\_\_\_

SHIZHOU YIN

Signed at \_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_, 2001.

Witness: \_\_\_\_\_

PAUL KURTZ

Signed at \_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_, 2001.

Witness: \_\_\_\_\_

KARL REICHARD

Signed at \_\_\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_, 2001.

Witness: \_\_\_\_\_

HONGYU LIU

Signed at Univ. Park, PA, this 30 day of May, 2001.

Witness: Haishey Xu

QIMING ZHANG