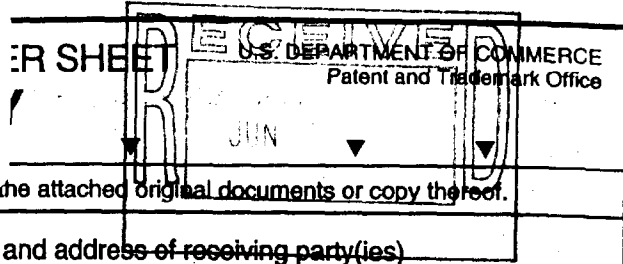


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06-02-1999



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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):

Zhijiang Wang, Ying Wang,  
Alice Z. Gheen

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

2. Name and address of receiving party(ies)

Name: Apollo Instruments, Inc.

Internal Address:

Street Address: 18019 Sky Park Circle, Ste.F

City: Irvine State: CA ZIP: 92614

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: January 5, 1999

4. Application number(s) or patent number(s) 09/225,616

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

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: Alice Gheen

Internal Address:

Street Address: Apollo Instruments, Inc

City: Irvine State: CA ZIP: 92614

6. Total number of applications and patents involved: 1

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

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

(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.

Zhijiang Wang  
Name of Person Signing

Zhijiang Wang  
Signature

May 25, 1999  
Date

Total number of pages including cover sheet, attachments, and document: 7

1-5-99

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D #

In the United States Patent and Trademark Office

01-22-1999

Mailed 1999.1.5

01/05/99  
617 U.S. PTO

Box Patent Application  
Assistant Commissioner for Patents  
Washington, District of Columbia 20231



100946539

1526 U.S. PTO  
09/225616  
01/05/99

Sir:

Please file the following enclosed patent application papers:

Applicant #1 Name: Zhijiang Wang

2 Alice Z. Green

Applicant #2 Name: Ying Wang

Title: High Power High Efficiency Cladding Pumping Fiber Laser

- Specification, Claims, and Abstract: Nr. of Sheets 25
- Declaration: Date Signed: January 5, 1999
- Drawing(s): Nr. of Sheets Enc.: Formal: 17 Informal: \_\_\_\_\_
- Small Entity Declaration of Inventor(s)  SED of Non-Inventor / Assignee / Licensee
- Assignment enclosed with cover sheet and recordal fee; please record and return.
- Check for \$ 420 for:
  - \$ 380 for filing fee (not more than three independent claims and twenty total claims are presented).
  - \$ 40 additional if Assignment is enclosed for recordal.

Disclosure Document Program reference letter.

Pursuant to 35 U.S.C. §119(e)(i), applicant(s) claim priority of Provisional Patent Application Ser. Nr. \_\_\_\_\_ filed \_\_\_\_\_

Return Receipt Postcard Addressed to Applicant #1.

Request Under MPEP § 707.07(j): The undersigned, a pro se applicant, respectfully requests that if the Examiner finds patentable subject matter disclosed in this application, but feels that Applicant's present claims are not entirely suitable, the Examiner draw one or more allowable claims for applicant.

01/19/1999 MPEOPLES 00000036 09225616  
02 FC:581

Very respectfully,

Zhijiang Wang  
Applicant #1 Signature  
23637 Country View Drive  
Address (Send Correspondence Here)  
Diamond Bar, CA 91765

Alice Green  
Applicant #2 Signature  
97 Fairlake  
Address  
Irvine, CA 92614

Express Mail Label # EH 744 028 973 US

; Date of Deposit 199 9.1.5

I hereby certify that this paper or fee is being deposited with the United States Postal Service using "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to "Box Patent Application, Assistant Commissioner for Patents, Washington, DC 20231."

Signed: [Signature] YING WANG  
Inventor

sheet 1 of 2

PATENT  
REEL: 009982 FRAME: 0273

**Assignment of Invention and Patent Application**

For the value received, Zhijiang Wang of Diamond Bar, Alice Z. Gheen of Irvine, and Ying Wang of Diamond Bar, All of California (hereafter **Assignor**), hereby sells, assigns, transfers and sets over unto Apollo Instruments, Inc. of Irvine, California and its successors or assigns (hereafter **Assignee**) 100% of the following: (A) **Assignor's** right, title and interest in and to the invention entitled "High Power High Efficiency Cladding Pumping Fiber Laser" invented by **Assignor**; (B) the application for United States patent therefor, signed by **Assignor** on January 5, 1999, filed January 5, 1999; (C) any patent or reissues of any patent that may be granted thereon; and (D) any applications which are continuations, continuations-in-part, substitutes, or divisions of said application. **Assignor** authorizes and requests the Commissioner of Patents and Trademarks to issue any resulting patent(s) as follows: 0% to **Assignor** and 100% to **Assignee**. (The singular shall include the plural and vice-versa herein.)

**Assignor** thereby further sells, assigns, transfers, and sets over unto **Assignee**, the above percentage of **Assignor's** entire right, title and interest in and to said invention in each and every country foreign to the United States; and **Assignor** further conveys to **Assignee** the above percentage of all priority rights resulting from the above-identified application for United State patent. **Assignor** agrees to execute all papers, give any required testimony and perform other lawful acts, at **Assignee's** expense, as **Assignee** may require to enable **Assignee** to perfect **Assignee's** interest in any resulting patent of the United States and countries foreign thereto and to acquire, hold, enforce, convey, and uphold the validity of said patent and reissues and extensions thereof, and **Assignee's** interest therein.

In testimony whereof **Assignor** has hereunto set its hand and seal on the date below.

Zhijiang Wang Zhijiang Wang

Alice Z. Gheen Alice Z. Gheen

Ying Wang Ying Wang

State: Calif

County: Orange

Before me personally appeared and acknowledge the foregoing instrument to be his free act and deed this 26 day of May, 1999.

Yvonne Loong (see next pages)

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

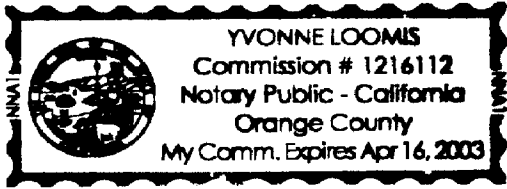
County of Orange } ss.

On May 26, 1999, before me, Yvonne Loomis  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Ying Wang  
Name(s) of Signer(s)

- personally known to me
- proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Yvonne Loomis  
Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

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Title or Type of Document: Assignment of Inventions & Patent application

Document Date: 1/5/99 Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

**Capacity(ies) Claimed by Signer**

- Signer's Name: \_\_\_\_\_
- Individual
  - Corporate Officer — Title(s): \_\_\_\_\_
  - Partner —  Limited  General
  - Attorney in Fact
  - Trustee
  - Guardian or Conservator
  - Other: \_\_\_\_\_

**RIGHT THUMBPRINT OF SIGNER**

Top of thumb here

Signer Is Representing: \_\_\_\_\_

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

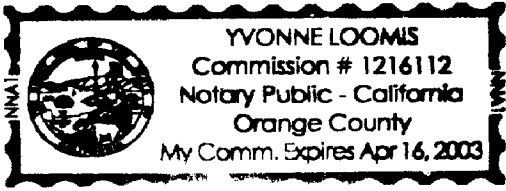
State of California

County of Orange } ss.

On May 26, 1999, before me, Yvonne Loomis  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Zhiqiang Wang  
Name(s) of Signer(s)

- personally known to me
- proved to me on the basis of satisfactory evidence



to be the person(s) whose name(s) (is) are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Yvonne Loomis  
Signature of Notary Public

Place Notary Seal Above

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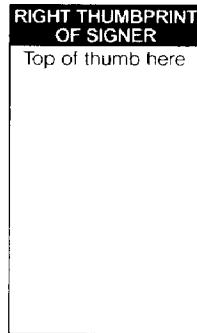
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Document Date: 1/5/99 Number of Pages: \_\_\_\_\_

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**Capacity(ies) Claimed by Signer**

- Signer's Name: \_\_\_\_\_
- Individual
  - Corporate Officer — Title(s): \_\_\_\_\_
  - Partner —  Limited  General
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  - Trustee
  - Guardian or Conservator
  - Other: \_\_\_\_\_



Signer Is Representing: \_\_\_\_\_

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California

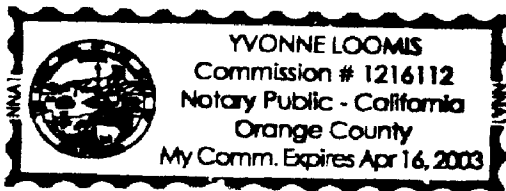
County of Orange } ss.

On May 26, 1999, before me, Yvonne Loomis  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Alice J. Sheen  
Name(s) of Signer(s)

- personally known to me
- proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Yvonne Loomis  
Signature of Notary Public

Place Notary Seal Above

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