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(1) Min Yuan (2) David B. Mitzi  
(3) Wei Liu

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) May 9, 2008

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

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

Name: International Business Machines Corporation

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

Street Address: New Orchard Road

City: Armonk

State: New York

Country: United States Zip: 10504

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

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

☐ This document is being filed together with a new application.

A. Patent Application No.(s)  
12/118,230

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Michael J. Chang

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

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 50-0510

Authorized User Name Michael J. Chang

**9. Signature:**



Signature

September 16, 2008

Date

Michael J. Chang, Reg. No. 46,611

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PATENT  
REEL: 021537 FRAME: 0583

CH \$40.00 600610 12118230

# ASSIGNMENT

Inventor  
and City

Whereas, we

(1) Min Yuan  
County of Westchester

of Yorktown Heights  
and State of New York

(2) David B. Mitzi  
County of Putnam

of Mahopac  
and State of New York

(3) Wei Liu  
County of Westchester

of Yorktown Heights  
and State of New York

have invented certain improvements in

TITLE

**TECHNIQUES FOR ENHANCING PERFORMANCE OF PHOTOVOLTAIC DEVICES**

and executed, respectively, a United States patent application therefor on

DATE THAT  
INVENTOR  
SIGNED THE  
DECLARATION

(1) May 9, 2008, (2) May 9, 2008, (3) May 9, 2008.


Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said application to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

Signed

(1)   
(Min Yuan) INVENTOR  
FIRST NAME MIDDLE INITIAL LAST NAME

on May 9, 2008

(2)   
(David B. Mitzi) INVENTOR  
FIRST NAME MIDDLE INITIAL LAST NAME

on May 9, 2008

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(Wei Liu) INVENTOR  
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## **FACSIMILE TRANSMITTAL SHEET**

Date: September 16, 2008

File: Patent Application No. 12/118,230 (Attorney Docket No. YOR920080244US1)

From: **MICHAEL J. CHANG**

To the following recipients:

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