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U.S. Department of Commerce Patent and Trademark Office



HEET

103524290

To the Commissioner for Patents.

1. Name of Conveying Party(ies):

Wei-Long LIU
Wen-Jauh CHEN
Shu-Huei HSIEH

2. Name and Address of Receiving Party(ies):

Name: National Formosa University

Street Address: No. 9, Lane 24, Shihlin Rd.,

3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:

Execution Date: August 9, 2008

City, State, Zip: Douliou City, Yunlin County,
Taiwan, R.O.C.

☐ Additional name(s) and address(es) attached.

4. (A) Patent Application Number(s):

4. (B) Patent Number(s):

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

August 9,
2008

☐ Additional Numbers Attached.

Title: GAS SENSOR MADE OF FIELD EFFECT TRANSISTOR BASED ON ZnO NANOWIRES

Attorney Docket No.: LIUW3016/EM

5. Name and Address of Party to whom Correspondence Concerning this
Document Should be Mailed:

Name:

Eugene Mar

Total Number of Applications and
Patents Involved:

1

7. Total Fee:
(37 CFR 3.41)

\$40.00

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit Account Number: 02-0200

23364

CUSTOMER NUMBER

Bacon & Thomas, PLLC
625 Slaters Lane Fourth Floor
Alexandria, VA 22314

9. Statement and Signature:

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

Eugene Mar

September 3, 2008

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments and documents: 09/03/2008 MAILED: 00000077 12230662

EM/bh

84 FC:8021

48.00 0P

PATENT
REEL: 021520 FRAME: 0419

ATTORNEY/DOCKET NO:

ASSIGNMENT BY INVENTOR(S) OF U.S. APPLICATION

WHEREAS, I am the original, first and sole inventor and I own (if only one name is listed below) or an original, first and joint inventor and the joint inventors own (if plural names are listed below) (referred to as "ASSIGNOR" below) the subject matter which is claimed and for which a patent is sought on the invention (referred to as the "INVENTION" below) entitled:

Title: GAS SENSOR MADE OF FIELD EFFECT TRANSISTOR BASED ON ZnO NANOWIRE

the specification of which (check one):

<input checked="" type="checkbox"/>	is executed on even date herewith.	
<input type="checkbox"/>	was filed on (day-month-year)	as U.S. Application Number
<input type="checkbox"/>	was filed on (day-month-year)	as PCT Application Number
<input type="checkbox"/>	was executed on the following date(s) (day-month-year)	

WHEREAS, National Formosa University

having a postal address of No. 9, Lane 24, Shihlin Rd., Douliou City, Yunlin County, Taiwan, R.O.C

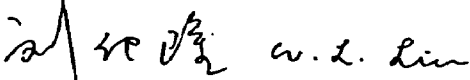
(referred to as "ASSIGNEE" below) desires to acquire the entire right, title and interest in and to the same in the U.S.;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, ASSIGNOR, by these presents does sell, assign and transfer unto ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the United States of America, including any and all patents granted on any division, continuation, continuation-in-part and reissue of said application.

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent applications in the United States for said INVENTION, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said INVENTION, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE's expense, to identify and communicate to ASSIGNEE at ASSIGNEE's request documents and information concerning the INVENTION that are within ASSIGNOR's possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR's obligations under this instrument shall extend to ASSIGNOR's heirs, executors, administrators and other legal representatives.

ALSO, ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all patents referred to above to ASSIGNEE, as the ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE's sole use and behoof; and for the use and behoof of ASSIGNEE's legal representatives and successors, to the full end of the term for which such patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

ASSIGNOR authorizes any member of the firm of Bacon & Thomas, PLLC to insert or complete any information in this document needed to effect its recordal in the U.S. Patent and Trademark Office.

Full Name of First or Sole Inventor Wei-Long Liu	Post Office Address
Citizenship Taiwan, R.O.C.	Residence (city, and either state or foreign country, MPEP §605.02) No. 9, Lane 24, Shihlin Rd., Douliou City, Yunlin County, Taiwan, R.O.C
Date August 9, 2008	Signature 

☒ See following page(s) for additional joint inventors.

(06Nov2001)

**SUPPLEMENTAL PAGE FOR AN
Assignment by Inventor(s) of U.S. Application**

Full Name of Joint Inventor Wen-Jauh Chen	Post Office Address
Citizenship Taiwan, R.O.C.	Residence (city, and either state or foreign country, MPEP §605.02) No. 9, Lane 24, Shihlin Rd., Douliou City, Yunlin County, Taiwan, R.O.C
Date August 9, 2008	Signature 陳文昭 Wen Jauh Chen

Full Name of Joint Inventor Shu-Huei Hsieh	Post Office Address
Citizenship Taiwan, R.O.C.	Residence (city, and either state or foreign country, MPEP §605.02) No. 9, Lane 24, Shihlin Rd., Douliou City, Yunlin County, Taiwan, R.O.C
Date August 9, 2008	Signature 謝淑惠 Shu Huei Shieh



See following page(s) for additional joint inventors.

(05Nov2001)