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Form PTO-1595 (Rev. 10/02) OMB No 0651-0027 (exp. 9/30/2005)		ET U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
102911372		PATENTS ONLY	
To the Honorable Commissioner of Patent and Trademarks: Please record the attached documents or copy thereof.			
1. Name of conveying party(ies): Lih-Juann Chen and Ying-Hao Li		2. Name and address of receiving party(ies): Name: Merck Patent Gesellschaft MIT Beschränkter Haftung Internal Address: Street Address: City: Darmstadt State: Germany Zip:	
Additional name(s) of conveying party(ies) attached? ☐ Yes ☐ No		No additional name(s) or address(es) attached ☐ Yes ☐ No	
3. Nature of Conveyance: ☒ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other Execution Date: 12/13/04 and 12/14/04			
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) 10/070,000		B. Patent No.(s)	
Additional numbers attached? ☐ Yes ☒ No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: MILLEN, WHITE, ZELANO & BRANIGAN, P.C. Address: Arlington Court Plaza I Suite 1400 2200 Clarendon BLVD. Arlington, VA 22201		6. Total number of applications and patents involved: 1 7. Total fee (37CFR 3.41) \$40.00 ☐ Enclosed ☒ Authorized to be charged to deposit account 8. DEPOSIT ACCOUNT NO. 13-3402 (Attach duplicate copies of this page if paying by deposit account)	
DO NOT USE THIS SPACE			
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. James E. Ruland Names of Person Signing Reg. No. 37,432 Signature December 21, 2004 Date CERTIFICATION OF FACSIMILE TRANSMISSION I hereby certify that this paper is being facsimile transmitted (703-872-9306) to the Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below Name James E. Ruland Reg. No. 37,432 Signature Date December 21, 2004			
Total number of pages including cover sheet, attachments, and documents			

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PAGE 1/3 * RCVD AT 12/21/2004 9:45:20 AM [Eastern Standard Time] * SVR:USPTO-EFXXRF-1/1 * DNIS:8729306 * CSID:7032436410 * DURATION (mm-ss):01:48

PATENT
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ASSIGNMENT

ATTY. DOCKET NO. MERCK-2995

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if multiple inventors are named below) have invented certain improvements in the art of ELECTROPLATING SOLUTION FOR COPPER ELECTROPLATING

and for which one or more of the following apply:

☐ U.S. Provisional Application Serial No. was filed in the United States Patent and Trademark Office

☒ A U.S. Non-Provisional

☐ application for Letters Patent to be filed in the United States Patent and Trademark Office was examined on such date.

☒ Application Serial No. 10/070,000 for Letters Patent was filed in the U.S. Patent and Trademark Office on November 27, 2002

☐ as International Application No. was filed on , describing the United States.

AND WHEREAS

MERCK PATENT GESSELLSCHAFT MIT
BESCHRÄNKTER HAFTUNG
Darmstadt, Germany

I hereby certify that this paper is being transmitted to the Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Signature Jacque Sickler
Date: 12/21/04

hereinafter referred to as the ASSIGNEE, in addition to acquiring the entire right, title, and interest in and to said invention and all application(s) listed above, including any and all earlier priority rights (U.S. and foreign), drawings and compositions thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, extensions, continuations and amendments thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, extensions, continuations and amendments thereof, and in and to any and all U.S. (including provisional) or foreign patents or other composition right or benefit arising or to arise with respect to the filing or terming of patent in the United States and/or any country foreign where concerning said invention, and ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and convey said invention and application, including any and all renewals, extensions, continuations and amendments thereof, any and all Letters Patent which may be granted thereon, including any and all renewals, extensions, continuations and amendments thereof, including the right to sue for damages accruing before the assignment, with all the right, power, privileges and advantages in respect thereto, and to execute and cause to be executed, for and during the term or terms of any and all such Letters Patent then pending, including any and all renewals, extensions, continuations and amendments thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner as all interest and purposes as the ASSIGNEE might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and causing Letters Patent thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Milten, White, Zelano & Branigan, P.C. the power to insert in this assignment information which may be necessary or desirable in order for the United States Patent and Trademark Office to properly record this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF EACH OF THE ASSIGNED INVENTOR	INVENTOR SIGNATURE	DATE
202 FULL NAME OF INVENTOR	INVENTOR SIGNATURE	DATE
GAU, Chun-Guo	INVENTOR SIGNATURE	DATE
203 FULL NAME OF INVENTOR	INVENTOR SIGNATURE	DATE
CHANG, Ting-Chang	INVENTOR SIGNATURE	DATE
204 FULL NAME OF INVENTOR	INVENTOR SIGNATURE	DATE
FENG, Ming-Shiang	INVENTOR SIGNATURE	DATE
205 FULL NAME OF INVENTOR	INVENTOR SIGNATURE	DATE
CHENG, Chen-Lin	INVENTOR SIGNATURE	DATE
206 FULL NAME OF INVENTOR	INVENTOR SIGNATURE	DATE
LIN, Yoo-Shih	INVENTOR SIGNATURE	DATE
207 FULL NAME OF INVENTOR	INVENTOR SIGNATURE	DATE
LI, Ying-Hao	INVENTOR SIGNATURE	DATE
208 FULL NAME OF INVENTOR	INVENTOR SIGNATURE	DATE
CHEN, Lib-Nuan	INVENTOR SIGNATURE	DATE
209 FULL NAME OF INVENTOR	INVENTOR SIGNATURE	DATE

To: 陳力俊教授
陳教授你好, 有一份文件
我們公司想申請美國專利。
因你是發明人之一, 請於發明
人處簽上大名, 及日期, 以便
後續處理。(文件請寄回伊默克
化學科技股份有限公司, 桃園縣

觀音工業區經建一路33號)
謝謝。

成詩榮謹上。

Manager

Innovation Dept. 1

stanley.cheng@merck.com.tw

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S. 1

ASSIGNMENT

ATTY. DOCKET NO. MERCK-2595

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement(s) relating to

ELECTROPLATING SOLUTION FOR COPPER ELECTROPLATING

and for which one or more of the following apply

☐ U.S. Provisional Application Serial No. was filed in the United States Patent and Trademark Office on

☒ A U.S. Non-Provisional

☐ application for Letters Patent to be filed in the United States Patent and Trademark Office was examined on even date.
☒ Application Serial No. 10000,000 for Letters Patent was filed in the U.S. Patent and Trademark Office on November 27, 2002
☐ as International Application No. was filed on , designating the United States.

AND WHEREAS

MERCK PATENT GESELLSCHAFT MIT
 BESCHRANKTER HAFTUNG
 DARMSTADT, Germany

hereinafter referred to as the ASSIGNOR, is desirous of acquiring the entire right, title, and interest in and to said invention and all applications filed above, including any and all earlier priority rights (U.S. and foreign), demands and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, extensions, continuations and extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including any and all demands and continuations thereof and any and all Letters Patent which may be granted thereon, including any and all renewals, extensions, continuations and extensions thereof, and in and to any and all U.S. (provisional) or foreign priority and/or continuation rights or benefits accruing as to matters with respect to the filing or securing of patents in the United States and/or any foreign country having concerning said invention, SAID ASSIGNOR, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application(s), including any and all matter priority rights (U.S. and foreign), demands and continuations thereof, any and all Letters Patent which may be granted thereon, including any and all renewals, extensions, continuations and extensions thereof, including the right to sue for damages concerning before the assignment, with all the right, power, privileges and advantages in anywise arising from or representing thereon, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, extensions, continuations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNEE hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patent thereon.

AND ASSIGNEE authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Miller, White, Zelano & Branigan, P.C. the power to insert on this assignment information which may be necessary or desirable in order for the United States Patent and Trademark Office to properly process this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF SELLER OR FIRST NAMED INVENTOR	INVENTOR SIGNATURE	DATE
HU, Jung-Chih		
202 FULL NAME OF SECOND NAMED INVENTOR	INVENTOR SIGNATURE	DATE
GAU, Chun-Gao		
203 FULL NAME OF THIRD NAMED INVENTOR	INVENTOR SIGNATURE	DATE
CHANG, Ting-Ching		
204 FULL NAME OF FOURTH NAMED INVENTOR	INVENTOR SIGNATURE	DATE
FENG, Ming-Shiang		
205 FULL NAME OF FIFTH NAMED INVENTOR	INVENTOR SIGNATURE	DATE
CHENG, Chun-Lin		
206 FULL NAME OF SIXTH NAMED INVENTOR	INVENTOR SIGNATURE	DATE
LIN, Yeu-Shin		
207 FULL NAME OF SEVENTH NAMED INVENTOR	INVENTOR SIGNATURE	DATE
LI Ying-Hao	Li Ying-Hao	2004.12.13
208 FULL NAME OF EIGHTH NAMED INVENTOR	INVENTOR SIGNATURE	DATE
CHEN, Lih-Juann		
209 FULL NAME OF NINTH NAMED INVENTOR	INVENTOR SIGNATURE	DATE

To: 蔡墨勤 先生

CERTIFICATION OF FACSIMILE TRANSMISSION

I hereby certify that this paper is being facsimile transmitted to the Commissioner of Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Name:

Signature

Date:

Jaime Sicker
[Signature]
 12-21-04

李博士你好：
 我是伊默克實驗室的經理
 目前有一文件想申請美國專利。
 煩請於證明人簽名及日期。謝謝。

Stanley Chy 8/12/04