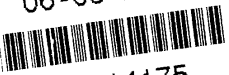


FORM PTO-1595 1-31-92 <b>5-31-05</b>		06-03-2005  103014175		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office Atty. Dkt. No. 5589-07901	
To the Honorable Commissioner of Patents and Trademark					
1. Name of conveying party(ies): Zain K. Saidia, Yalin Xiong, Lance Glasser, Carl Hless, and Moshe E. Preil  Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			2. Name and address of receiving party(ies): Name: <u>KLA-Tencor Technologies Corp.</u> Internal Address: _____ Street Address: <u>One Technology Drive</u> City: <u>Milpitas</u> State: <u>CA</u> ZIP: <u>95035</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>March 29, 2005</u>					
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of this application is: A. Patent Application No.(s) <u>11/048,630</u> B. Patent No.(s) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Daffer McDaniel, LLP</u> Internal Address: _____ Street Address: <u>P.O. Box 684908</u> City: <u>Austin</u> State: <u>TX</u> ZIP: <u>78768-4908</u>			6. Total number of applications and patents involved: <u>one (1)</u>		
			7. Total fee (37 CFR 3.41): \$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account		
			8. Deposit account number: <u>50-3268/5589-07901</u> (Attach a duplicate copy of this page if paying by deposit account)		
DO NOT USE THIS SPACE					
9. Statement and Signature. <i>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.</i> <u>Ann Marie Mewherter</u> <u>Ann Marie Mewherter</u> <u>May 27, 2005</u> Name of Person Signing Signature Date Reg. No. 50,484 Total number of pages including cover sheet: <u>9</u>					
OMB No. 0651-011 (exp. 4/94)					

06/02/2005 ECOMPER 00000210 503268 11048630

01 FC:0021 40.00 DA

PAGE 5/19 \* RCVD AT 5/27/2005 3:45:34 PM [Eastern Daylight Time] \* SVR:USPTO-EFXXF-1/0 \* DNIS:8729306 \* CSID:5127031250 \* DURATION (mm:ss):10:20

PATENT  
REEL: 016613 FRAME: 0431

PATENT  
5589-07901  
P1379

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to KLA-TENCOR TECHNOLOGIES CORPORATION (the "Assignee"), a California corporation having its principal place of business at One Technology Drive, Milpitas, CA 95035 the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 11/048,630, entitled "COMPUTER-IMPLEMENTED METHODS FOR DETECTING DEFECTS IN RETICLE DESIGN DATA," such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee; and

COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

PATENT  
5589-07901  
P1379(Signature) Zain K. Saidin  
Name: Zain K. SaidinDate: Mar 29 2005STATE OF California §  
COUNTY OF Santa Clara §

BEFORE ME, the undersigned authority, on this 29<sup>th</sup> day of March, 2005, personally appeared Zain K. Saidin known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he/she executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

Odetta H. Devera  
Notary or Consular Officer(Signature) Yalin Xiong  
Name: Yalin XiongDate: 3/30/2005STATE OF California §  
COUNTY OF Santa Clara §

BEFORE ME, the undersigned authority, on this 30<sup>th</sup> day of March, 2005, personally appeared Yalin Xiong known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he/she executed the same of his own free will for the purposes and consideration therein expressed.

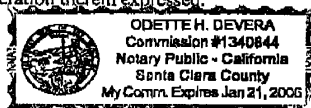
[SEAL]

Odetta H. Devera  
Notary or Consular Officer

PATENT  
5589-07901  
P1379(Signature) [Signature]  
Name: Lance GlasserDate: 29th March 2005STATE OF California §  
COUNTY OF Santa Clara §

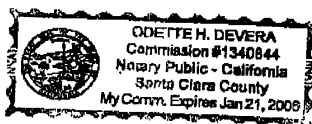
BEFORE ME, the undersigned authority, on this 29<sup>th</sup> day of March, 2005, personally appeared Lance Glasser known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he/she executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

[Signature]  
Notary or Consular Officer(Signature) [Signature]  
Name: Carl HessDate: 3/29/2005STATE OF California §  
COUNTY OF Santa Clara §

BEFORE ME, the undersigned authority, on this 29<sup>th</sup> day of March, 2005, personally appeared Carl Hess known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he/she executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

[Signature]  
Notary or Consular Officer

MAY-27-2005 FRI 01:50 PM Daffer McDaniel LLP

FAX NO. 512 703 1250

P. 09

PATENT  
5589-07901  
P1379

(Signature) \_\_\_\_\_  
Name: Moshe E. Preil

Date: \_\_\_\_\_

STATE OF California §  
§  
COUNTY OF \_\_\_\_\_ §

BEFORE ME, the undersigned authority, on this \_\_\_\_\_ day of \_\_\_\_\_, 2005, personally appeared Moshe E. Preil known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he/she executed the same of his own free will for the purposes and consideration therein expressed.

[SUAL]

\_\_\_\_\_  
Notary or Consular Officer

**Customer No. 35617**  
Daffer McDaniel, LLP  
P.O. Box 684908  
Austin, TX 78768-4908  
(512) 476-1400

Page 4 of 4

PAGE 9/19 \* RCVD AT 5/27/2005 3:45:34 PM [Eastern Daylight Time] \* SVR:USPTO-EFAXRF-1/0 \* DNIS:8729306 \* CSID:512 703 1250 \* DURATION (mm-ss):10-20

PATENT  
REEL: 016613 FRAME: 0435

PATENT  
5589-07901  
P1379

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to KLA-TENCOR TECHNOLOGIES CORPORATION (the "Assignee"), a California corporation having its principal place of business at One Technology Drive, Milpitas, CA 95035 the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 11/048,630, entitled "COMPUTER-IMPLEMENTED METHODS FOR DETECTING DEFECTS IN RETICLE DESIGN DATA," such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee; and

COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

PATENT  
5589-07901  
P1379

(Signature) \_\_\_\_\_  
Name: Zain K. Saidin

Date: \_\_\_\_\_

STATE OF California §  
§  
COUNTY OF \_\_\_\_\_ §

BEFORE ME, the undersigned authority, on this \_\_\_\_\_ day of \_\_\_\_\_, 2005, personally appeared Zain K. Saidin known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he/she executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

\_\_\_\_\_  
Notary or Consular Officer

(Signature) \_\_\_\_\_  
Name: Yalin Xiong

Date: \_\_\_\_\_

STATE OF California §  
§  
COUNTY OF \_\_\_\_\_ §

BEFORE ME, the undersigned authority, on this \_\_\_\_\_ day of \_\_\_\_\_, 2005, personally appeared Yalin Xiong known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he/she executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

\_\_\_\_\_  
Notary or Consular Officer

PATENT  
5589-07901  
P1379

(Signature) \_\_\_\_\_  
Name: Lance Glasser

Date: \_\_\_\_\_

STATE OF California §  
§  
COUNTY OF \_\_\_\_\_ §

BEFORE ME, the undersigned authority, on this \_\_\_\_\_ day of \_\_\_\_\_, 2005, personally appeared Lance Glasser known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he/she executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

\_\_\_\_\_  
Notary or Consular Officer

(Signature) \_\_\_\_\_  
Name: Carl Hess

Date: \_\_\_\_\_

STATE OF California §  
§  
COUNTY OF \_\_\_\_\_ §

BEFORE ME, the undersigned authority, on this \_\_\_\_\_ day of \_\_\_\_\_, 2005, personally appeared Carl Hess known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he/she executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

\_\_\_\_\_  
Notary or Consular Officer



(Signature) Moshe E. Preil  
Name: Moshe E. Preil

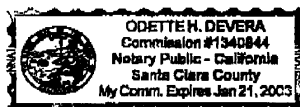
Date: 5/3/05

PATENT  
5589-07901  
P1379

STATE OF California §  
COUNTY OF Santa Clara §

BEFORE ME, the undersigned authority, on this 3<sup>rd</sup> day of May, 2005, personally appeared Moshe E. Preil known to me to be the person whose name is subscribed to the foregoing instrument and acknowledge to me that he/she executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]



Odetta H. Devera  
Notary or Consular Officer

Customer No. 35617  
Daffer McDaniel, LLP  
P.O. Box 684908  
Austin, TX 78768-4908  
(512) 476-1400

PATENT  
5589-07901  
P1379**DECLARATION/POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled "COMPUTER-IMPLEMENTED METHODS FOR DETECTING DEFECTS IN RETICLE DESIGN DATA," the specification of which:

- ☐ is attached hereto.  
☒ was filed on January 31, 2005 as Application Serial No. 11/048,630  
and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability of the subject matter claimed in this application, as "materiality" is defined in 37 C.F.R. § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate listed below, or under § 365(a) of any PCT international application listed below designating least one country other than the United States of America, and have identified below any foreign application for patent or inventor's certificate, or of any PCT international application, having a filing date before that of the application on which priority is claimed.

<u>Prior Foreign Application No.</u>	<u>Country</u>	<u>Filing Date</u> (mm/dd/yy)	<u>Priority</u> <u>Claimed</u>	<u>Cert. copy</u> <u>Attached</u>
N/A				

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

<u>Provisional Application No.</u>	<u>Filing Date</u> (mm/dd/yyyy)
60/540,031	01/29/2004

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below, or under § 365(e) of any PCT international application listed below designating the United States of America, and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose all information known to me to be material to the patentability of the subject matter claimed in this application, as "materiality" is defined in 37 C.F.R. § 1.56, which became available between the filing date of the prior application and the national or PCT international filing date of this application.

<u>Parent Application No.</u>	<u>Filing Date</u> (mm/dd/yy)	<u>Parent Patent No. (if applicable) or Status</u>
N/A		

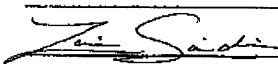
PATENT  
5589-07901  
P1379

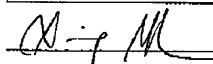
I hereby revoke any previous Powers of Attorney and appoint: Kevin McAndrews, Reg. No. 34,496 and Bernice Chen, Reg. No. 42,403 *each said attorneys or agents being employed by KLA-Tencor Technologies Corporation*; and Kevin L. Daffer, Reg. No. 34,146; Mollie E. Lettang, Reg. No. 48,405; and Ann Marie Mewherter, Reg. No. 50,484; *each said attorneys or agents being members or associates of the firm of Daffer McDaniel, LLP*, as attorney or agent for so long as they remain with such company or firm, with full power of substitution and revocation, to prosecute the application, to make alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive the Letters Patent.

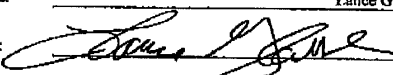
Please direct all communications to:

**Customer No. 35617**  
Daffer McDaniel, LLP  
P.O. Box 684908  
Austin, Texas 78768-4908  
Phone: (512) 476-1400

I hereby declare that all statements made herein of my own knowledge are true and that all statements made herein on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

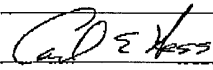
Inventor's Full Name: Zain K. Saidin  
Inventor's Signature:  Date: Mar 29 2005  
City and State (or Foreign Country) of Residence: San Mateo, CA Citizenship: USA  
Post Office and Residence Address: 545 Edinburgh St., San Mateo, CA 94402  
(Include number, street name, city, state and zip code)

Inventor's Full Name: Yalin Xiong  
Inventor's Signature:  Date: 3/30/2005  
City and State (or Foreign Country) of Residence: Union City, CA Citizenship: China  
Post Office and Residence Address: 5121 Seaside Ct., Union City, CA 94587  
(Include number, street name, city, state and zip code)

Inventor's Full Name: Lance Glasser  
Inventor's Signature:  Date: 29 Mar 2005  
City and State (or Foreign Country) of Residence: Saratoga, CA Citizenship: USA  
Post Office and Residence Address: 19753 Via Escuela Dr., Saratoga, CA 95070  
(Include number, street name, city, state and zip code)

PATENT  
REEL: 016613 FRAME: 0441

PATENT  
5589-07901  
P1379

Inventor's Full Name: Carl Hess  
Inventor's Signature:  Date: 3/29/2005  
City and State (or Foreign Country) of Residence: Los Altos, CA Citizenship: USA  
Post Office and Residence Address: 1345 Holly Ave., Los Altos, CA 94024  
(Include number, street name, city, state and zip code)

Inventor's Full Name: Moshe E. Preil  
Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
City and State (or Foreign Country) of Residence: Sunnyvale, CA Citizenship: USA  
Post Office and Residence Address: 732 Shasta Fir Dr., Sunnyvale, CA 94086  
(Include number, street name, city, state and zip code)

PATENT  
5589-07901  
P1379**DECLARATION/POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled "COMPUTER-IMPLEMENTED METHODS FOR DETECTING DEFECTS IN RETICLE DESIGN DATA," the specification of which:

- ☐ is attached hereto.  
☒ was filed on January 31, 2005 as Application Serial No. 11/048,630  
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<u>Prior Foreign Application No.</u>	<u>Country</u>	<u>Filing Date</u> <u>(mm/dd/yy)</u>	<u>Priority</u> <u>Claimed</u>	<u>Cert. copy</u> <u>Attached</u>
<u>N/A</u>				

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below.

<u>Provisional Application No.</u>	<u>Filing Date</u> <u>(mm/dd/yyyy)</u>
<u>60/540,031</u>	<u>01/29/2004</u>

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below, or under § 365(c) of any PCT international application listed below designating the United States of America, and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose all information known to me to be material to the patentability of the subject matter claimed in this application, as "materiality" is defined in 37 C.F.R. § 1.56, which became available between the filing date of the prior application and the national or PCT international filing date of this application.

<u>Parent Application No.</u>	<u>Filing Date</u> <u>(mm/dd/yy)</u>	<u>Parent Patent No. (if applicable) or Status</u>
<u>N/A</u>		

PATENT  
5589-07901  
P1379

I hereby revoke any previous Powers of Attorney and appoint: Kevin McAndrews, Reg. No. 34,496 and Bernice Chen, Reg. No. 42,403 *each said attorneys or agents being employed by KLA-Tencor Technologies Corporation*; and Kevin L. Daffer, Reg. No. 34,146; Mollie E. Lettang, Reg. No. 48,405; and Ann Marie Mowherter, Reg. No. 50,484; *each said attorneys or agents being members or associates of the firm of Daffer McDaniel, LLP*, as attorney or agent for so long as they remain with such company or firm, with full power of substitution and revocation, to prosecute the application, to make alterations and amendments therein, to transact all business in the Patent and Trademark Office in connection therewith, and to receive the Letters Patent.

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Daffer McDaniel, LLP  
P.O. Box 684908  
Austin, Texas 78768-4908  
Phone: (512) 476-1400

I hereby declare that all statements made herein of my own knowledge are true and that all statements made herein on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's Full Name: Zain K. Saidin

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

City and State (or Foreign Country) of Residence: San Mateo, CA Citizenship: USAPost Office and Residence Address: 545 Edinburgh St., San Mateo, CA 94402  
(Include number, street name, city, state and zip code)Inventor's Full Name: Yalin Xiong

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

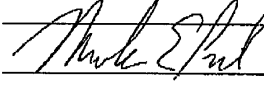
City and State (or Foreign Country) of Residence: Union City, CA Citizenship: ChinaPost Office and Residence Address: 5121 Seaside Ct., Union City, CA 94587  
(Include number, street name, city, state and zip code)Inventor's Full Name: Lance Glasser

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

City and State (or Foreign Country) of Residence: Saratoga, CA Citizenship: USAPost Office and Residence Address: 19753 Via Escuela Dr., Saratoga, CA 95070  
(Include number, street name, city, state and zip code)PATENT  
REEL: 016613 FRAME: 0444

PATENT  
5589-07901  
P1379

Inventor's Full Name: Carl Hess  
Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
City and State (or Foreign Country) of Residence: Los Altos, CA Citizenship: USA  
Post Office and Residence Address: 1345 Holly Ave., Los Altos, CA 94024  
(Include number, street name, city, state and zip code)

Inventor's Full Name: Moshe E. Preil  
Inventor's Signature:  Date: 5/17/05  
City and State (or Foreign Country) of Residence: Sunnyvale, CA Citizenship: USA  
Post Office and Residence Address: 732 Shasta Fir Dr., Sunnyvale, CA 94086  
(Include number, street name, city, state and zip code)