

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>DongSub Choi</td> <td>07/08/2011</td> </tr> <tr> <td>Amir Widmann</td> <td>08/23/2011</td> </tr> <tr> <td>Daniel Kandel</td> <td>10/02/2011</td> </tr> <tr> <td>David Tien</td> <td>07/05/2011</td> </tr> </tbody> </table>		Name	Execution Date	DongSub Choi	07/08/2011	Amir Widmann	08/23/2011	Daniel Kandel	10/02/2011	David Tien	07/05/2011
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>KLA-Tencor Corporation</td> </tr> <tr> <td>Street Address:</td> <td>One Technology Drive</td> </tr> <tr> <td>City:</td> <td>Milpitas</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>95035</td> </tr> </table>		Name:	KLA-Tencor Corporation	Street Address:	One Technology Drive	City:	Milpitas	State/Country:	CALIFORNIA	Postal Code:	95035
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PROPERTY NUMBERS Total: 1											
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Application Number:	13156865										
CORRESPONDENCE DATA											
<p>Fax Number: (402)496-0333</p> <p>Phone: 402.496.0300</p> <p>Email: file@suiter.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Suiter Swantz/KLA Joint Customer Number</p> <p>Address Line 1: 14301 FNB Parkway</p> <p>Address Line 2: Suite 220</p> <p>Address Line 4: Omaha, NEBRASKA 68154-5299</p>											
ATTORNEY DOCKET NUMBER:	KLA 11-5-1										
NAME OF SUBMITTER:	Scot M. Ringenberg										

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PATENT
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PATENT

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Please return signed/Recorded to:

CUSTOMER NO. 78238
Sean Patrick Suiter
SUITER • SWANTZ PC LLO
14301 FNB Parkway, Suite 220
Omaha, NE 68154-5299

ASSIGNMENT OF U.S. PATENT APPLICATION
(sole or joint inventor(s))

WHEREAS, the undersigned, to wit:

- 1) DongSub Choi
- 2) Amir Widmann
- 3) Daniel Kandel
- 4) David Tien

(hereinafter collectively ASSIGNOR), have made application for United States Letters Patent

- (a) _____ which was executed and is being filed herewith in the United States Patent and Trademark Office
- (b) _____ which was filed on _____ and titled _____
- (c) X which was filed on June 9, 2011 and known as Appln. No. 13/156,865, titled
ADVANCED PROCESS CONTROL OPTIMIZATION

AND WHEREAS, KLA-Tencor Corporation (hereinafter ASSIGNEE), organized and existing under the laws of Delaware, and having its principal place of business at One Technology Drive, Milpitas, CA, 95035, is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said application and any Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives its entire right, title and interest in and to said invention and in and to said application and all patents which may be granted therefore, and all divisions, reissues, substitutions, continuations, continuations-in-part and extensions thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as ASSIGNOR's interest is concerned, to the said ASSIGNEE of ASSIGNOR's entire right, title and interest.

ASSIGNOR also hereby sells and assigns to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world

including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and

ASSIGNOR further agrees to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

ASSIGNOR hereby further agrees to communicate with said ASSIGNEE, or its successors, assigns and legal representatives, any facts known to us respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

ASSIGNOR hereby grant(s) the firm of SUTER • SWANTZ PC LLO or its agents the power to insert on this assignment any further identification, including but not limited to application number(s) and filing dates, which may be necessary or desirable in order to comply with any rule or request of the United States Patent and Trademark office for the purposes of recording this document.

First named inventor

Name DongSub Choi Date: 8th July 2011
DongSub Choi

Witness Signature: [Signature]

Witness Printed Name: Kim, Hyang Kuen

Witness Address: RM201 970R PLAZA Building
22-7 Bamsong-Dong
Hwasung City Kyunggi-do
South Korea.

Second named inventor

Name Amir Widmann
Amir Widmann

Date: 8-23-11

Witness Signature: [Signature]

Witness Printed Name: Jenny Navon

Witness Address: ISRAEL
QIVAT ECAH

[Signature]

Third named inventor

Name D. Kandel
Daniel Kandel

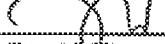
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Witness Signature: _____

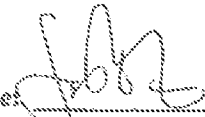
Witness Printed Name: Jenny Naven

Witness Address: ISRAEL

Fourth named inventor

Name 
David Tien

Date: 7/5/11

Witness Signature: 
Witness Printed Name: JAMES R. MANIA
Witness Address: 85 RIO ROBLES E, #3401
SAN JOSE, CA 95134