

<b>PATENT ASSIGNMENT COVER SHEET</b>
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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ROBERT HAYNES	02/09/2018
FRANK CHILESE	01/26/2018
MOSHE E. PREIL	01/26/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	KLA-TENCOR CORPORATION
<b>Street Address:</b>	ONE TECHNOLOGY DRIVE
<b>City:</b>	MILPITAS
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95035
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15879120
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(402)496-0333
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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<b>Correspondent Name:</b>	SUITER SWANTZ/KLA JOINT CUSTOMER NUMBER
<b>Address Line 1:</b>	14301 FNB PARKWAY
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<b>ATTORNEY DOCKET NUMBER:</b>	KLA P5064
<b>NAME OF SUBMITTER:</b>	MATTHEW A. POULSEN
<b>SIGNATURE:</b>	/matthew a poulsen/
<b>DATE SIGNED:</b>	05/07/2018
<b>Total Attachments: 5</b>	
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Please return signed/Recorded to:

**CUSTOMER No. 78238**  
Matthew A. Poulsen  
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) Robert Haynes
- 2) Frank Chilese
- 3) Moshe E. Preil

(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, titled \_\_\_\_\_.
- (b) \_\_\_\_\_ which was filed on \_\_\_\_\_ and titled \_\_\_\_\_.
- (c)  X  which was filed on January 24, 2018 and known as Appln. No. 15/879,120, titled **MULTI-COLUMN SPACING FOR PHOTOMASK AND RETICLE INSPECTION AND WAFER PRINT CHECK VERIFICATION.**

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 SUITER • 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.

IN WITNESS WHEREOF, we have hereunto signed our names on the day and year set forth below.

First named inventor

Name: *Robert Haynes*  
Robert Haynes

Date: 2/9/2018

Witness Signature: *Aron Welk*  
Witness Printed Name: ARON WELK  
Witness Address: 2724 Redbridge Rd  
TRACY, CA 95377

IN WITNESS WHEREOF, we have hereunto signed our names on the day and year set forth below.

Second named inventor

Name: Frank Chilese  
Frank Chilese

Date: 20 JAN 2018

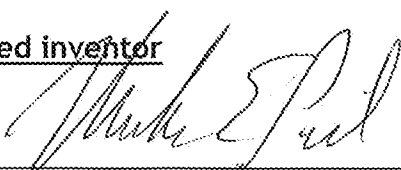
Witness Signature: 

Witness Printed Name: YANG XIE

Witness Address: 1585 Silver Ranch Ln  
San Jose, CA 95138

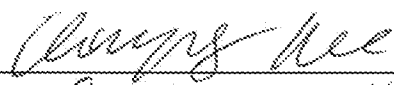
IN WITNESS WHEREOF, we have hereunto signed our names on the day and year set forth below.

Third named inventor

Name:   
Moshe E. Preil

Date: 1/26/18

Witness Signature:



Witness Printed Name:

JUDITH NIE

Witness Address:

1077 Golden Gate Pl.  
SAN JOSE, CA 95131