PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4977474

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ROBERT HAYNES	06/21/2017
ARON WELK	06/21/2017
TOMAS PLETTNER	01/23/2018
JOHN GERLING	06/21/2017
MEHRAN NASSER GHODSI	01/26/2018

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15612862

CORRESPONDENCE DATA

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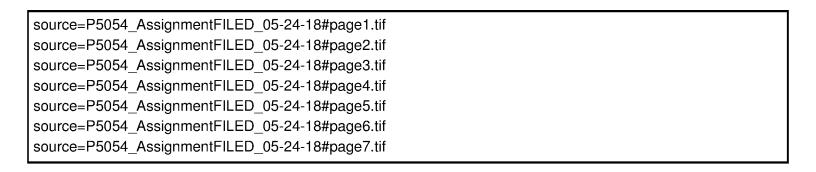
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Total Attachmenta 7	
DATE SIGNED:	05/24/2018
SIGNATURE:	/matthew a poulsen/
NAME OF SUBMITTER:	MATTHEW A. POULSEN
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Total Attachments: 7

PATENT REEL: 045898 FRAME: 0329

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PATENT REEL: 045898 FRAME: 0330 Please return signed/Recorded to:

CUSTOMER NO. 78238
Sean Patrick Suiter
SUITER • SWANTZ PC LLO
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Omaha, NE 68154-5299

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

WHEREAS, the undersigned, to wit:

- 1. Robert Haynes
- 2. Aron Welk
- 3. Tomas Plettner
- 4. John Gerling
- 5. Mehran Nasser Ghodsi

(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 MULTI-COLUMN SCANNING ELECTRON MICROSCOPY SYSTEM
(b)	which was filed on and titled
(c) <u>X</u>	which was filed on June 2, 2017 and known as Appln. No. 15/612,862, titled
	MULTI-COLUMN SCANNING ELECTRON MICROSCOPY SYSTEM

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

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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, below.	, we have hereunto signed our names on the day ar	nd year set forth
Mon Welk	6-21-17	
Second Inventor's Signature	DATE	
Aron Welk Inventor's Printed Name		
mentor 31 miles mane	and the second s	
Witness Signature:		
Witness Printed Name:	HUSO LUNA/GOEN	
Witness Address:	HUSO LUMA KOGAN ZTO SUMMONKS AUT AMPBOLL CA. 95008	

below.	
Third Inventor's Signature	
Tomas Plettner Inventor's Printed Name	<u></u>
Witness Signature:	Jamph Claraiso
Witness Printed Name:	VAROUJAN CHAKARIAN
Witness Address:	1 Technology Drive Milbitas V CA 95035

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

	OF, we have hereunto signed our names on the day and year set forth
below.	
_//////////	122 6-21-17
Fourth Inventor's Signature	DATE
John Gerling	
Inventor's Printed Name	
Witness Signature:	
Witness Printed Name:	Hugo LUNA Kolan
Witness Address:	270 SUNNYONKS AVE COMPBECC CA. 25008

IN WITNESS WHERE	OF, we have hereunto signed our names on the day and year set forth
below.	
Mehn News	· Endri 1/21/18
Fifth Inventor's Signature	DATE
Mehran Nasser Ghodsi	
Inventor's Printed Name	
Witness Signature:	F. Showenin
Witness Address	Dr. F. Ghavimi
Witness Address:	- 245 E93rd St. #23H - NYC. NY. 10128