505329860 02/14/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5376641

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MICHAEL FRIEDMANN	01/24/2019
ALEXANDER KUZNETSOV	01/28/2019
ANDREI V. SHCHEGROV	01/26/2019
JONATHAN M. MADSEN	01/26/2019
ESEN SALCIN	01/29/2019
DERRICK SHAUGHNESSY	02/14/2019
DAVID WANG	01/25/2019

RECEIVING PARTY DATA

Name:	KLA-TENCOR CORPORATION	
Street Address:	ONE TECHNOLOGY DRIVE	
City:	MILPITAS	
State/Country:	CALIFORNIA	
Postal Code: 95035		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16257066

CORRESPONDENCE DATA

Fax Number:

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.

Phone:	6503070332
Email:	isabelle@spanolawgroup.com
Correspondent Name:	JOSEPH S SPANO
Address Line 1:	851 BURLWAY ROAD, SUITE 407
Address Line 4:	BURLINGAME, CALIFORNIA 94010

ATTORNEY DOCKET NUMBER:	KLA-102 (P5113)
NAME OF SUBMITTER:	JOSEPH S. SPANO
SIGNATURE:	/Joseph S. Spano/
DATE SIGNED:	02/14/2019

Total Attachments: 6

source=KLA-102-P5113-Assignment-Wang-signed#page1.tif source=KLA-102-P5113-Assignment-Salcin-signed#page1.tif source=KLA-102-P5113-Assignment-Friedmann-signed#page1.tif source=KLA-102-P5113-Assignment-Kuznetsov-signed#page1.tif source=KLA-102-P5113-Assignment-Mad-Shche-signed#page1.tif

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, we, David Y. Wang, 1212 Alice Drive, Santa Clara, California 95050; Esen Salcin, 1519 East Weathervane Lane, Tempe, Arizona 85283; Michael Friedmann, 1262 Cuernavaca Circulo, Mountain View, California 94040; Derrick Shaughnessy, 3561 Gavota Avenue, San Jose, California 95124; Andrei V. Shchegrov, 2309 Montezuma Drive, Campbell, California 95008; Jonathan M. Madsen, 10831 Mora Drive, Los Altos, California 94024; and Alexander Kuznetsov, 13016 Armaga Springs Road, Austin, Texas 78727, (hereinafter referred to as ASSIGNORS), having post office addresses that follow our names, are the joint inventors of the invention described and claimed in the specification forming part of the United States patent application entitled "Methods And Systems For Co-Located Metrology," which was filed on January 24, 2019, and now has U.S. Application Ser. No. 16/257,066;

WHEREAS, KLA-Tencor Corporation, (hereafter referred to as ASSIGNEE), a corporation organized under the laws of Delaware and having a place of business at One Technology Drive, Milpitas, California 95035, is desirous of acquiring the entire right, title, and interest in and to the invention and in and to any letters patents that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, and transfer unto said ASSIGNEE, its successors and assigns, the entire right, title, and interest in and to said invention, said application and any and all letters patents which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE, its successors and assigns, and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty, or otherwise, said invention, application and all letters patents on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer, and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patents on said invention to ASSIGNEE, its successors and assigns. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patents on said invention, for litigation regarding said letters patents, or for the purpose of protecting title to said invention or letters patents therefor.

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

David G Wang Inventor's Signature

David Y. Wang Inventor's Printed Name 1/25/2019

Date

Inventor's Signature

Esen Salcin Inventor's Printed Name

Date

PATENT REEL: 048337 FRAME: 0974

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, we, David Y. Wang, 1212 Alice Drive, Santa Clara, California 95050; Esen Salcin, 1519 East Weathervane Lane, Tempe, Arizona 85283; Michael Friedmann, 1262 Cuernavaca Circulo, Mountain View, California 94040; Derrick Shaughnessy, 3561 Gavota Avenue, San Jose, California 95124; Andrei V. Shchegrov, 2309 Montezuma Drive, Campbell, California 95008; Jonathan M. Madsen, 10831 Mora Drive, Los Altos, California 94024; and Alexander Kuznetsov, 13016 Armaga Springs Road, Austin, Texas 78727, (hereinafter referred to as ASSIGNORS), having post office addresses that follow our names, are the joint inventors of the invention described and claimed in the specification forming part of the United States patent application entitled "Methods And Systems For Co-Located Metrology," which was filed on January 24, 2019, and now has U.S. Application Ser. No. 16/257,066;

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NOW, THEREFORE, in exchange for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, and transfer unto said ASSIGNEE, its successors and assigns, the entire right, title, and interest in and to said invention, said application and any and all letters patents which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues, and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE, its successors and assigns, and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty, or otherwise, said invention, application and all letters patents on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer, and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patents on said invention to ASSIGNEE, its successors and assigns. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patents on said invention, for litigation regarding said letters patents, or for the purpose of protecting title to said invention or letters patents therefor.

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

Inventor's Signature

David Y. Wang Inventor's Printed Name

Date

Inventor's Signature

Esen Salcin Inventor's Printed Name

4/29/2019

PATENT REEL: 048337 FRAME: 0975 Assignment of application entitled: "Methods And Systems For Co-Located Metrology" Docket Number: KLA-102 (P5113)

Inventor's Signature

Michael Friedmann Inventor's Printed Name

1/24/2019

Date

Inventor's Signature

Derrick Shaughnessy Inventor's Printed Name

Date

Date

Inventor's Signature

Andrei V. Shchegrov Inventor's Printed Name

Inventor's Signature

Jonathan M. Madsen Inventor's Printed Name

Date

Inventor's Signature

Alexander Kuznetsov Inventor's Printed Name

Date

Assignment of application entitled: "Methods And Systems For Co-Located Metrology" Docket Number: KLA-102 (P5113)

Michael Friedmann Inventor's Signature Inventor's Printed Name Date Derrick Shaughnessy Inventor's Signature Inventor's Printed Name Date Andrei V. Shchegrov Inventor's Signature Inventor's Printed Name Date Jonathan M. Madsen Inventor's Signature Inventor's Printed Name Date 01/28/2019 Date Alexander Kuznetsov

Inventor's Signature

Inventor's Printed Name

Page 2 of 2

PATENT REEL: 048337 FRAME: 0977

Assignment of application entitled: "Methods And Systems For Co-Located Metrology" Docket Number: KLA-102 (P5113)

Inventor's Signature

Michael Friedmann Inventor's Printed Name

Date

Inventor's Signature

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Inventor's Signature

Invéntor's Signature

Derrick Shaughnessy Inventor's Printed Name

Andrei V. Shchegrov

Inventor's Printed Name

Jonathan M. Madsen

Inventor's Printed Name

Date

9

Date

Inventor's Signature

Alexander Kuznetsov Inventor's Printed Name

Date

Assignment of application entitled: "Methods And Systems For Co-Located Metrology" Docket Number: KLA-102 (P5113)

Michael Friedmann Inventor's Printed Name Inventor's Signature Date 2010 Derrick Shaughnessy Inventor's Printed Name Date Inventor's Signate Andrei V. Shchegrov Inventor's Signature Inventor's Printed Name Date Jonathan M. Madsen Inventor's Signature Inventor's Printed Name Date Alexander Kuznetsov Inventor's Printed Name Date Inventor's Signature

Page 2 of 2

RECORDED: 02/14/2019