

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4252398

|   |                              |                       |
|---|------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT               |                       |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                   |                       |
| <b>CONVEYING PARTY DATA</b>   |                              |                       |
|   | <b>Name</b>                  | <b>Execution Date</b> |
|   | KURT L. HALLER               | 01/30/2017            |
| <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>  | 15419355                     |                       |
| <b>CORRESPONDENCE DATA</b>  |                              |                       |
| <b>Fax Number:</b>  | (650)307-0332                |                       |
| <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> |                              |                       |
| <b>Phone:</b>   | 6503070332                   |                       |
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| <b>Correspondent Name:</b>  | JOSEPH S SPANO               |                       |
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| <b>ATTORNEY DOCKET NUMBER:</b>  | KLA-090 (P5003)              |                       |
| <b>NAME OF SUBMITTER:</b>   | JOSEPH S. SPANO              |                       |
| <b>SIGNATURE:</b>   | /Joseph S. Spano/            |                       |
| <b>DATE SIGNED:</b>   | 01/31/2017                   |                       |
| <b>Total Attachments: 1</b>   |                              |                       |
| source=KLA-090-P5003-Assignment-signed#page1.tif  |                              |                       |

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, I, Kurt L. Haller, 890 Sylvaner Drive, Pleasanton, CA 94566, (hereinafter referred to as ASSIGNOR), having a post office address that follows my name, am the sole inventor of the invention described and claimed in the specification forming part of the United States patent application entitled "Activation Of Wafer Particle Defects For Spectroscopic Composition Analysis," which was filed on January 30, 2017, and now has U.S. Application Ser. No. 15/419,355;

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, ASSIGNOR hereby sells, assigns, and transfers 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 ASSIGNOR had this assignment, transfer, and sale not been made. ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue all letters patents on said invention to ASSIGNEE, its successors and assigns. ASSIGNOR agrees 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, I have hereunto signed my name on the day and year set forth below.



Inventor's Signature

Kurt L. Haller

Inventor's Printed Name

30 Jan 2017

Date