PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2579747

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DANIEL KANDEL	10/06/2010
VLADIMIR LEVINSKI	10/17/2010
ALEXANDER SVIZHER	10/18/2010
JOEL SELIGSON	10/19/2010
OHAD BACHAR	10/17/2010
AMNON MANASSEN	10/19/2010
ILAN SELA	10/14/2010
MOSHE MARKOWITZ	10/17/2010
DARIA NEGRI	10/19/2010
EFRAIM ROTEM	10/17/2010
ANDREW HILL	11/23/2010
YUNG-HO ALEX CHUANG	11/18/2010

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	erty Type Number	
Application Number:	13865104	

CORRESPONDENCE DATA

Fax Number:

Email: mewherter@entropymatters.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: ENTROPY MATTERS LLC

PATENT REEL: 031416 FRAME: 0316 13865104

502534398

Address Line 1: P.O. BOX 2250 Address Line 4: NEW YORK, NEW YORK 10021		
ATTORNEY DOCKET NUMBER: 5222-23301/P3456C1		
NAME OF SUBMITTER: ANN MARIE MEWHERTER		
Signature: /Ann Marie Mewherter/		
Date:	10/16/2013	
Total Attachments: 14 source=Assignment23301signed#page1.tif source=Assignment23301signed#page2.tif source=Assignment23301signed#page3.tif source=Assignment23301signed#page4.tif source=Assignment23301signed#page5.tif source=Assignment23301signed#page6.tif source=Assignment23301signed#page7.tif source=Assignment23301signed#page8.tif source=Assignment23301signed#page9.tif source=Assignment23301signed#page10.tif source=Assignment23301signed#page11.tif source=Assignment23301signed#page12.tif source=Assignment23301signed#page12.tif source=Assignment23301signed#page13.tif		

PATENT REEL: 031416 FRAME: 0317

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to <u>KLA-TENCOR CORPORATION</u> (the "Assignee"), a California corporation having its principal place of business at <u>One Technology Drive</u>, <u>Milpitas</u>, <u>CA 95035</u> the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 12/872,988 entitled "<u>METROLOGY SYSTEMS AND METHODS</u>," such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee; and

COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

(Signature) Name:	D KOU Daniel Kandel	IL .	Date: 0, 1. 6, 2010
COUNTRY OF	<u>Israel</u>	ia ia ia	
instrument and and consideratio	<u>. Kanoer</u> knowi icknowledge to	n to me to be the per me that he/she execut	his 6 day of October 10 personally son whose name is subscribed to the foregoing od the same of his own free will for the purposes
[SEAL]	J		Notary or Consular Officer
(Signature) Name:	Vidimir Levin	? Ski	Date: Oct. 17, 2010
COUNTRY OF		89 69	
appeared Vladin	<u>nir Levinski</u> kn ičknowledge to	own to me to be the p me that he/she execut	his 17 day of 00000000000000000000000000000000000
[SEAL]			Notary or Consular Officer

(Signature)	Chrys	Date: 18.10, 10
Name:	Alexander Svizher	
COUNTRY O	F <u>Israel</u> § § §	
appeared Alex instrument and	ander Svizher known to me	nority, on this 18 day of 0000, personally to be the person whose name is subscribed to the foregoing she executed the same of his own free will for the purposes
[SEAL]		Notary or Consular Officer
(Signature) Name:	Joel Seligson	Date: OCT. 19 2010
COUNTRY O	F <u>Israel</u> § § §	v
instrument and	RE ME, the undersigned auth <u>Seligson</u> known to me to lacknowledge to me that he/ion therein expressed.	nority, on this <u>U</u> day of <u>Ochober</u> personally be the person whose name is subscribed to the foregoing she executed the same of his own free will for the purposes
[SEAL]		Notary of Consular Officer

(Signature)		Date:	
Name:	Andrew Hill		
STATE OF Cal	lifornia §		
COUNTY OF	<u></u> j		
appeared Andre instrument and	w Hill known to me to be	ity, on this day of, personathe person whose name is subscribed to the foregoing executed the same of his own free will for the purpo	ing
[SEAL]			
		Notary or Consular Officer	
(Signature) Name:	ન્ <u>ર</u> ેખાદ Ohad Bachar	Date: 17-0cl-2010	
COUNTRY OF	<u>Israel</u> § § §		
appeared <u>Uhad</u> instrument and	<u>Hachar</u> known to me to be	ity, on this A day of Obo 10 persons the person whose name is subscribed to the forego e executed the same of his own free will for the purpo Noise or Consular Officer	mg

(Signature) Name:	Amnon Mana	Manaru ssen	Date: 19 0=1 2	10/0
COUNTRY OF	· <u>lerael</u>			
appeared Viiii	o <u>n manassen</u> * acknowledge	to me that he/she exec	betzon whose name is	october, personally subscribed to the foregoing on free will for the purposes
(Signature) Name:	Yung-Ho Ale	x Chuang	Date:	······································
STATE OF COUNTY OF	ilifomia			
appeared Yung foregoing instr	<u>z-Ho Alex Ch</u> ument and ack	uang known to me to	be the person whose	personally name is subscribed to the of his own free will for the
[SEAL]				
			Notary or Consular	Officer

	5222-23300 P3456
(Signature) Name: Ilan Sela	Date: 14/10/10
COUNTRY OF <u>Israel</u> § § §	
appeared <u>Han Sela</u> known to me to be the person w	n this 14 day of 0000 Dersonally hose name is subscribed to the foregoing instrument same of his own free will for the purposes and Notary or Consular Officer
(Signature) <u>Maske May Covital</u> Name: Moshe Markowitz	Date: 17-10-2010
COUNTRY OF <u>Israel</u> § § §	
appeared <u>Moshe Markowitz</u> known to me to be the	n this 17— day of October 10 personally e person whose name is subscribed to the foregoing cuted the same of his own free will for the purposes Notary or Consular Officer

(Signature) 17	Date: 49/6/40
Name: Daria Negri COUNTRY OF <u>Israel</u> § §	
BEFORE ME, the undersigned authority, on tappeared <u>Daria Negri</u> known to me to be the person whand seknowledge to me that he/she executed the sconsideration therein expressed. [SEAL]	this 14 day of 0 chober personally lose name is subscribed to the foregoing instrument ame of his own free will for the purposes and Notary or Consular Officer
(Signature) Lund Name: Efraim Rotem	Date: <u>Oct. 17, 2010</u>
COUNTRY OF <u>Israel</u> § § §	
BEFORE ME, the undersigned authority, on tappeared <u>Efraim Rotem</u> known to me to be the perinstrument and acknowledge to me that he/she execut and consideration therein expressed. [SEAL]	

P.O. Box 2250 New York, NY 10021 (212) 861-1352

Customer No. 61507 Entropy Matters LLC

Page 7 of 7

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to <u>KLA-TENCOR CORPORATION</u> (the "Assignee"), a California corporation having its principal place of business at <u>One Technology Drive</u>, <u>Milpitas</u>, <u>CA 95035</u> the entire right, title and interest for the United States and all foreign countries, in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. 12/872,988 entitled "<u>METROLOGY SYSTEMS AND METHODS</u>," such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT that, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee; and

COVENANT AND AGREE that the above is and will be binding on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

(Signature)		Date:
Name: Daniel	Kandel	
COUNTRY OFIsrae	L	
appeared <u>Daniel Kande</u>	<u>el</u> known to me to be the ledge to me that he/she exc	on this day of, personall person whose name is subscribed to the foregoin ecuted the same of his own free will for the purpose
[SEAL]		
		Notary or Consular Officer
(Signature) Name: Vladim	ir Levinski	Date:
COUNTRY OF <u>Israe</u>	<u> </u>	
appeared <u>Vladimir Lev</u>	<u>inski</u> known to me to be th ledge to me that he/she exc	on this day of, personally ne person whose name is subscribed to the foregoing cuted the same of his own free will for the purpose
[SEAL]		
*		Notary or Consular Officer

(Signature)		Date:	
Name:	Alexander Svizher		
COUNTRY	OF <u>Israel</u> § § §		
appeared <u>Ale</u> instrument ar	<u>xander Svizher</u> known to me to	rity, on this day of, person be the person whose name is subscribed to the foregoe e executed the same of his own free will for the purp	gnio
[SEAL]			
		Notary or Consular Officer	
(Signature)_ Name:	Joel Seligson		
COUNTRY	OF <u>Israel</u> § § §		
appeared <u>los</u> instrument an	<u>I Seligson</u> known to me to be	rity, on this day of, person the person whose name is subscribed to the foregon executed the same of his own free will for the purpose.	gnic
[SEAL]			
		Notary or Consular Officer	

(Signature) Andrew Hill	Date: 27 November 240
STATE OF <u>California</u> \$ COUNTY OF <u>Sun Maleo</u> \$	
BEFORE ME, the undersigned authority, on the appeared Andrew Hill known to me to be the persinstrument and acknowledge to me that he/she execute and consideration therein expressed.	tis 23 day of November 200 personally on whose name is subscribed to the foregoing d the same of his own free will for the purposes
SEAL) JINNY QU'NH NGUYEN Commission & 1736923 Notary Public - California San Maleo County My Corren Express Apr 5, 2011	Notery or Conjular Officer
(Signature) Name: Ohad Bachar	Date:
COUNTRY OF <u>Israel</u> § § §	
BEFORE MB, the undersigned authority, on the appeared Ohad Bachar known to me to be the persinstrument and acknowledge to me that he/she execute and consideration therein expressed.	
[SEAL]	
	Notery or Consular Officer

(Signature)			Date: _			
Name:	Amnon Mana	isen				
COUNTRY O	F <u>Israel</u>	V2 000 000				
appeared <u>Amr</u> instrument and	i <u>on Manassen</u> k	nown to me to be o me that he/she	the person wh	iose name is su	person pe	going
[SBAL]						
			Notary	or Consular Off	icer	
(Signature) Name:	My-H; & Yung-Ho Ales	r : Chuang	Date:	Nov. 18.	3488	
STATE OF C	alifornia San Musteo	<i>G</i>				
appeared Yun foregoing instr	g-Ho Alex Chu	ang known to mowledge to me th	e to be the po	erson whose na	Moer 2010, persome is subscribed this own free will fo	o the
(SBAL)	Commiss Notary Py San M	UYNIA NGUYEN lon # 1736823 blic - California aleo Caunty ExploseAcv8.2011	Normy	or Consular Off	<u>)</u> icer	

(Signature) Name: Han Sela	Date:	
	w w	
appeared Ilan Sela known to m	ersigned authority, on this day of, per e to be the person whose name is subscribed to the foregoing inst he/she executed the same of his own free will for the purpos	lrument
[SEAL]		
	Notary or Consular Officer	
(Signature) Name: Moshe Markow	Date:	
COUNTRY OF <u>Israel</u>		
appeared Moshe Markowitz kn	orsigned authority, on this day of, per own to me to be the person whose name is subscribed to the for me that he/she executed the same of his own free will for the pr ised.	regoing
[SEAL]	•	
	Notary or Consular Officer	

(Signature)	Date:
(Signature) Nume: Daria Negri	
COUNTRY OF <u>Israel</u>	
appeared Daria Negri know	undersigned authority, on this day of, personally n to me to be the person whose name is subscribed to the foregoing instrument hat he/she executed the same of his own free will for the purposes and seed.
[SEAL]	
	Notary or Consular Officer
(Signature) Name: Efraim Rote	Date:
COUNTRY OF <u>Israel</u>	
appeared Efraim Rotem ke	undersigned authority, on this day of, personally nown to me to be the person whose name is subscribed to the foregoing e to me that he/she executed the same of his own free will for the purposes pressed.
[SEAL]	
	Notary or Consular Officer

Customer No. 61507 Entropy Matters LLC P.O. Box 2250 New York, NY 10021 (212) 861-1352

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PATENT REEL: 031416 FRAME: 0331