

Substitute for form 1449/PTO <h2 style="text-align: center;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center;">(Use as many sheets as necessary)</p>			Complete if Known		
			Application Number	15914356	
			Filing Date	03-07-2018	
			First Named Inventor	KARTALOV; Emil P.	
			Art Unit	2877	
			Examiner Name	Unassigned	
			Attorney Docket Number	38075-716.302	
Sheet	1	of	7		

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	001	US-7930106	04-19-2011	CARRICK; James M.	
	002	US-8039215	10-18-2011	HIGUCHI; Russell et al.	
	003	US-8426132	04-23-2013	LI; Bin et al.	
	004	US-8455184	06-04-2013	ATCHLEY; Daniel H. et al.	
	005	US-8492094	07-23-2013	DIMITROV; Krassen et al.	
	006	US-8519115	08-27-2013	WEBSTER; Philippa J. et al.	
	007	US-8614061	12-24-2013	BRABETZ; Werner et al.	
	008	US-8771955	07-08-2014	REED; Michael W. et al.	
	009	US-8838394	09-16-2014	KARTALOV; Emil et al.	
	010	US-8877464	11-04-2014	BABIEL; Reiner et al.	
	011	US-8962250	02-24-2015	STANLEY; Keith	
	012	US-9133506	09-15-2015	KATZIR; Nir et al.	
	013	US-9222128	12-29-2015	SAXONOV; Serge et al.	
	014	US-9260761	02-16-2016	TYAGI; Sanjay et al.	
	015	US-9422593	08-23-2016	ROTHMANN; Thomas et al.	
	016	US-9447457	09-20-2016	CHUN; Jong Yoon et al.	
	017	US-20020146734	10-10-2002	ORTYN; William E. et al.	
	018	US-20070072211	03-29-2007	NEWTON; Nick et al.	
	019	US-20080124705	05-29-2008	KRAMER; Fred R.	
	020	US-20100151443	06-17-2010	XIANG; Qing et al.	
	021	US-20100233686	09-16-2010	HIGUCHI; Russell et al.	
	022	US-20110151550	06-23-2011	SAGNER; Gregor et al.	

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		Number-Kind Code ² (if known)			
	023	US-20130017971	01-17-2013	GEISS; Gary K. et al.	
	024	US-20130040841	02-14-2013	SAXONOV; Serge et al.	
	025	US-20130261019	10-03-2013	LIN; Chenxiang et al.	
	026	US-20140038195	02-06-2014	MALIK; Imran R. et al.	
	027	US-20140171341	06-19-2014	JOUVENOT; Yann et al.	
	028	US-20150057178	02-26-2015	KARTALOV; Emil et al.	
	029	US-20150140554	05-21-2015	SNYDER; Richard O. et al.	
	030	US-20170362636	12-21-2017	RAJAGOPAL; Aditya et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	001	CN-101570782-A	11-04-2009	CHUNHUA YANG [CN]	English Abstract	<input checked="" type="checkbox"/>
	002	EP-1629108-B1	12-31-2014	PHRI PROPERTIES INC [US]		<input type="checkbox"/>
	003	WO-03002979-A2	01-09-2003	ILLUMINA INC [US], et al.		<input type="checkbox"/>
	004	WO-2004087950-A2	10-14-2004	ROCHE DIAGNOSTICS GMBH [DE], et al.		<input type="checkbox"/>

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
	005	WO-2010128206-A1	11-11-2010	EXPRESSION ANALYTICS OY [FI], et al.		<input type="checkbox"/>
	006	WO-2013096851-A1	06-27-2013	HARVARD COLLEGE [US]		<input type="checkbox"/>
	007	WO-2013116780-A1	08-08-2013	CALIFORNIA INST OF TECHN [US], et al.		<input type="checkbox"/>
	008	WO-2017173035-A1	10-05-2017	CHROMACODE INC [US]		<input type="checkbox"/>

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		Attorney Docket Number	38075-716.302		
Sheet	4	of	7		

NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author(in CAPITAL LETTERS),title of the article(when appropriate), title of the item (book,magazine,journal,serial,symposium,catalog,etc.),date,page(s),volume-issue number(s),publisher, city and/or country where published.	T ²
	001	CHAPIN et al., Rapid microRNA profiling on encoded gel microparticles. Angewandte Chemie International Edition, 50(10):2289-2293, 2011.	<input type="checkbox"/>
	002	European Patent Application No. 13744261.2 Extended European Search Report dated May 3, 2016.	<input type="checkbox"/>
	003	GANDELMAN, et al., Novel Bioluminescent Quantitative Detection of Nucleic Acid Amplification in Real-Time, PLoS One, 2010, 5(11):e14155, 14 pages.	<input type="checkbox"/>
	004	HAN et al., Quantum-dot-tagged microbeads for multiplexed optical coding of biomolecules. Nature Biotechnology, 19(7):631-635, 2001.	<input type="checkbox"/>
	005	Holland, et al., Detection of specific polymerase chain reaction product by utilizing the 5' to 3' exonuclease activity of Thermus aquaticus DNA polymerase. PNAS (USA) 88:7276-7280, 1991.	<input type="checkbox"/>
	006	International Search Report and Written Opinpin dated 11/16/2017 for International PCT Patent Application No. PCT/US2017/37682.	<input type="checkbox"/>
	007	International search report and written report dated 06/22/2017 for PCT Application No. PCT/US2017/24933.	<input type="checkbox"/>
	008	KLOSTRANEC et al., Convergence of quantum dot barcodes with microfluidics and signal processing for multiplexed high-throughout infectious disease diagnostics. Nano Letters, 7(9):2812-2818, 2007.	<input type="checkbox"/>
	009	LI et al., Multiplexed detection of pathogen DNA with DNA-based fluorescence nanobarcode. Nature Biotechnology, 23(7):885-889, 2005.	<input type="checkbox"/>

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NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author(in CAPITAL LETTERS),title of the article(when appropriate), title of the item (book,magazine,journal,serial,symposium,catalog,etc.),date,page(s),volume-issue number(s),publisher, city and/or country where published.	T ²
	010	LIN et al., Self-assembled combinatorial encoding nanoarrays for multiplexed biosensing. Nano Letters, 7(2):507-512, 2007.	<input type="checkbox"/>
	011	Notice of allowance dated 06/02/2014 for US Application No. 13/756,760.	<input type="checkbox"/>
	012	Office action dated 01/24/2014 for US Application No. 13/756,760.	<input type="checkbox"/>
	013	Office action dated 06/06/2017 for US Application No. 14/451,876.	<input type="checkbox"/>
	014	Office action dated 11/23/2016 for US Application No. 14/451,876.	<input type="checkbox"/>
	015	SAMBROOK, et al. Molecular Cloning: A Laboratory Manual. 2nd Edition, 1989.	<input type="checkbox"/>
	016	U.S. Serial No. 15/623,974 Office Action dated February 22, 2018.	<input type="checkbox"/>
	017	U.S. Serial No. 15/677,772 Office Action dated February 08, 2018.	<input type="checkbox"/>
	018	XU et al., Multiplexed SNP genotyping using the Qbead system: a quantum dot-encoded microspere-based assay. Nucleic Acids Research, 31(8):e43, 2003.	<input type="checkbox"/>

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CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

- That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- See attached certification statement.
- Fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Kyle Bruner/	Date (YYYY-MM-DD)	2018-03-22
Name/Print	Kyle Bruner	Registration Number	75,716

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

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4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.