

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	14451876
				Filing Date	08-05-2014
				First Named Inventor	KARTALOV; Emil
				Art Unit	1631
				Examiner Name	NEGIN, RUSSELL SCOTT
				Attorney Docket Number	38075-716.301
Sheet	1	of	2		

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	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-20020146734	10-10-2002	ORTYN; William E. et al.	
	002	US-20080124705	05-29-2008	KRAMER; Fred R.	
	003	US-20100151443	06-17-2010	XIANG; Qing et al.	
	004	US-20110151550	06-23-2011	SAGNER; Gregor et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No	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	WO-03002979-A2	01-09-2003	ILLUMINA INC [US], et al.		☐
	002	WO-2013096851-A1	06-27-2013	HARVARD COLLEGE [US]		☐

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.	☐

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	002	European Patent Application No. 13744261.2 Extended European Search Report dated May 3, 2016.	☐
	003	HAN et al., Quantum-dot-tagged microbeads for multiplexed optical coding of biomolecules. Nature Biotechnology, 19(7):631-635, 2001.	☐
	004	KLOSTRANEC et al., Convergence of quantum dot barcodes with microfluidics and signal processing for multiplexed high-throughput infectious disease diagnostics. Nano Letters, 7(9):2812-2818, 2007. (Abstract only)	☐
	005	LI et al., Multiplexed detection of pathogen DNA with DNA-based fluorescence nanobarcodes. Nature Biotechnology, 23(7):885-889, 2005.	☐
	006	LIN et al., Self-assembled combinatorial encoding nanoarrays for multiplexed biosensing. Nano Letters, 7(2):507-512, 2007.	☐
	007	XU et al., Multiplexed SNP genotyping using the Qbead™ system: a quantum dot-encoded microsphere-based assay. Nucleic Acids Research, 31(8):e43, 2003.	☐

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	001	US-20070072211	03-29-2007	NEWTON; Nick et al.	
	002	US-20100233686	09-16-2010	HIGUCHI; Russell et al.	
	003	US-20130040841	02-14-2013	SAXONOV; Serge et al.	
	004	US-20140171341	06-19-2014	JOUVENOT; Yann et al.	

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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	001	WO-2017173035-A1	10-05-2017	CHROMACODE INC [US]		☐

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	001	Co-pending US patent application No. US15/914,356, filed on 03-07-2018.	☐
	002	GANDELMAN, et al., Novel Bioluminescent Quantitative Detection of Nucleic Acid Amplification in Real-Time, PLoS One, 2010, 5(11):e14155, 14 pages.	☐
	003	International Search Report and Written Opinion dated 11/16/2017 for International PCT Patent Application No. PCT/US2017/37682.	☐
	004	U.S. Serial No. 15/623,974 Office Action dated February 22, 2018.	☐
	005	U.S. Serial No. 15/677,772 Office Action dated February 08, 2018.	☐

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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)	2018-03-23
Name/Print	Kyle Bruner	Registration Number	75,716

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The information provided by you in this form will be subject to the following routine uses:

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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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)).
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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.
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				Application Number	14451876
				Filing Date	08-05-2014
				First Named Inventor	KARTALOV; Emil
				Art Unit	1631
				Examiner Name	RUSSELL SCOTT NEGIN
Sheet	2	of	4	Attorney Docket Number	38075-716.301

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
		None	

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				Examiner Name	RUSSELL SCOTT NEGIN
Sheet	3	of	4	Attorney Docket Number	38075-716.301

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)	2018-04-26
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.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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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.

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	14451876
				Filing Date	08-05-2014
				First Named Inventor	KARTALOV; Emil
				Art Unit	1631
				Examiner Name	RUSSELL SCOTT NEGIN
Sheet	1	of	4	Attorney Docket Number	38075-716.301

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)			
/RSN/	001	US-9366632	06-14-2016	LINK; Darren Roy et al.	
/RSN/	002	US-9441266	09-13-2016	LARSON; Jonathan William 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 ² Number ⁴ Kind Code ⁵ (if known)				
		None				

Examiner Signature	/RUSSELL S NEGIN/	Date Considered	06/10/2018
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		None	

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/RSN/	001	US-20070072211	03-29-2007	NEWTON; Nick et al.	
/RSN/	002	US-20100233686	09-16-2010	HIGUCHI; Russell et al.	
/RSN/	003	US-20130040841	02-14-2013	SAXONOV; Serge et al.	
/RSN/	004	US-20140171341	06-19-2014	JOUVENOT; Yann et al.	

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
/RSN/	001	WO-2017173035-A1	10-05-2017	CHROMACODE INC [US]		☐

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/RSN/	001	Co-pending US patent application No. US15/914,356, filed on 03-07-2018.	☐
/RSN/	002	GANDELMAN, et al., Novel Bioluminescent Quantitative Detection of Nucleic Acid Amplification in Real-Time, PLoS One, 2010, 5(11):e14155, 14 pages.	☐
/RSN/	003	International Search Report and Written Opinion dated 11/16/2017 for International PCT Patent Application No. PCT/US2017/37682.	☐
/RSN/	004	U.S. Serial No. 15/623,974 Office Action dated February 22, 2018.	☐
/RSN/	005	U.S. Serial No. 15/677,772 Office Action dated February 08, 2018.	☐

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