Electronic Acknowledgement Receipt	
EFS ID:	46902206
Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	27-OCT-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:31:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	Hardenbol-Multiplexed.pdf	260869 87d4149c44fb649f441d2400329fa31e9dc4981e	no	7
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		Total Files Size (in bytes):	98641983		

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National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
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Electronic Acknowledgement Receipt	
EFS ID:	46902215
Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	27-OCT-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:32:36
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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56	Non Patent Literature	KAZAKOV.pdf	1155409 3fd50ea382aad6732abb8d06cc14de4ed6ea8a55	no	8
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57	Non Patent Literature	KEITH_1984_p84_NPL.pdf	1636558 bb3a6a86ab03e74988535e162c76cf8bf5366dca	no	6
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58	Non Patent Literature	KELLER_2009_p1823_NPL.pdf	563382 de932bc242ab246b81a16d76491717db700d0cee	no	4
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59	Non Patent Literature	KENNEDY_2014_p2586_NPL.pdf	5305127 7efc04dc41c367f2bbbfa2445f0255fb6e46c72b	no	22
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60	Non Patent Literature	KESHAVJEE_Vol-103-1992.pdf	1513796 27c3062ff81b1674b54542ec4838e1aeff39004f	no	12
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		Total Files Size (in bytes):	93803633		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

<u>New Applications Under 35 U.S.C. 111</u>
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
<u>National Stage of an International Application under 35 U.S.C. 371</u>
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
<u>New International Application Filed with the USPTO as a Receiving Office</u>
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt	
EFS ID:	46902271
Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	27-OCT-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:42:45
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	PAPAGEORGIOU.pdf	1048761 3a3fa7b0d377fb755ab34350905af650b4122053	no	5
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2	Non Patent Literature	PARAMESWARAN_2007_9pgs_NPL.pdf	1432604 5747ff9b9ec27c4d90defa37526a80447df41660	no	9
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3	Non Patent Literature	PARK_2015_305-312_NPL.pdf	1503755 21213006e7f369e9a42e2e29b1db704331a8fe68	no	8
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4	Non Patent Literature	PARKER_1985_p1257_NPL.pdf	12268222 6af51c02404a1a5a5917803cf8f745cc77cc6a6e	no	5
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5	Non Patent Literature	PARUZYNSKI_2010_p1379_NPL.pdf	1718918 c4cb7a6012141928067e0e172fa19abe6edf47bf	no	17
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6	Non Patent Literature	PASK_2004_8pgs_NPL.pdf	3945318 8ba660afb7a64da80a143db4b17d1100b1ca3c31	no	8
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11	Non Patent Literature	PCTUS2006045281_2007-09-28_ISRWO.pdf	1174989 aae33cbc9e0aed9cf417816e6ebce0aacbd0f97b	no	7
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13	Non Patent Literature	PCTUS2008003547_ISR_14Apr2009.pdf	575307 343aa4a575943426f31d0403ccf59fe1c708a2f6	no	5
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14	Non Patent Literature	PCTUS2009034506_ISR_08Jul2009.pdf	344071 aa2cb62f391b48d77b7f77f4b78819aef739f695	no	2
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16	Non Patent Literature	PCTUS2009052730_ISR_28Sept2009.pdf	153839 8f05e995a8c5d4a88f57d9e237a8e5dbe0dc0820	no	1
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17	Non Patent Literature	PCTUS2010050824_ISR_15Nov2010.pdf	327512 07afd2f7cc10e87b48985057562082e9e0cb2c52	no	2
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18	Non Patent Literature	PCTUS2011037018_ISR_27Sept2011.pdf	272302 933b21a9da026ae1cb68b0d8cf1980c8ba04befe	no	2
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21	Non Patent Literature	PCTUS2012066339_ISR_05Mar2013.pdf	170948 51d2bf2d8c3261bf68ae4a7d5ce3bebda0643f72	no	1
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23	Non Patent Literature	PCTUS201357924_2014-02-18.pdf	1128659 bdd43b6633476e84dade7f949b5a68f14c46af06	no	8
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24	Non Patent Literature	PCTUS2014051926_12_09_2014_ISRWO.pdf	1478382 3c5398352c275e83b7e5ee6b91e28f28c4c1df64	no	8
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26	Non Patent Literature	PELIZZARI_2000_p4577_NPL.pdf	337563 a1295933c7b1d732fbe3bad822909f154caf4e68	no	6
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28	Non Patent Literature	PERAKIS_2017_p73_NPL.pdf	9720705 22b9d3854d0ee792bf8532fe792381dda7a65bac	no	81
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29	Non Patent Literature	PERGAMENT_2014_210_NPL.pdf	1374298 c1dd6eb1059476f2181feff6c69241716589c6ac	no	26
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30	Non Patent Literature	Perkel_OvercomingChallenges_2012.pdf	281244 9f4ba79104cafca37a7b1da69f1142fc42b3d708	no	5
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37	Non Patent Literature	PFAFFL_2004_p87_NPL.pdf	2097725 fc02c64c6fca2d68493fdf9140d6b293f5a2925e	no	26
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41	Non Patent Literature	PIRKER_2004_p26_NPL.pdf	1112000 4670128f86e38b22ecf145691bd62ecd1ba050ab9	no	9
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42	Non Patent Literature	PODDER2008.pdf	3840122 d789dfff1083df9ca9766e9216a93158e7ffa308	no	15
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43	Non Patent Literature	POIRIER_2005_45_NPL.pdf	412763 ee2987c927a8e7e3698c0607c7c84747f0c43b02	no	4
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45	Non Patent Literature	POON_2002_35_NPL.pdf	795233 156bcd3f5e2921e7268884d51c6fd10280b908a4	no	7
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46	Non Patent Literature	POPOVA_2009_NPL.pdf	798494 d30c5efbdb33e23d903177c0689f895f9b6114ff	no	14
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47	Non Patent Literature	PORRECA.pdf	1299055 272bfed4b76d1fc842ab79d6095e087cfded1897	no	6
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48	Non Patent Literature	POURMAND_2002_p5_NPL.pdf	218379 cda8f5ecc93a9a453435b9dc853c4f27afd6c5ad	no	5
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51	Non Patent Literature	PRIMDAHL_2002_216_NPL.pdf	1169320 cd875d39f0932c4620c2b42c4ffab0b35fed74ba	no	8
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54	Non Patent Literature	Proffitt_1999_p1100_NPL.pdf	467924 cb80532889d150292e097f2982a3ea30a36a4fdd	no	8
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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt

EFS ID:	46902277
Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	27-OCT-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:44:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

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2	Non Patent Literature	RABINOWITZ_2006.pdf	1901338 e99d649dc4250317ded60d6dba89a6b2b8ebdca8	no	9
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3	Non Patent Literature	RABINOWITZ_2012.pdf	300955 f82ba8063455fbf8624a9ad3e53298f7edfcc60a	no	7
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4	Non Patent Literature	RABINOWITZ_POSTER.pdf	582192 ea9b70570d6276b43e111bac41c9f3f9c7e141bf	no	1
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6	Non Patent Literature	RAEMDONCK_643-656_2014.pdf	944521 bde7b2acdd92267bea12ece9366c7e99c0e8bdd9	no	14
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9	Non Patent Literature	Random_Penguin_Dictionary_2008.pdf	33580 6b30e986831d3cd821525902937b9276a040428c	no	1
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21	Non Patent Literature	RIVA_2017_691_NPL.pdf	2496799 7fcd7b8320cdea5f19162ea5e79440456a9c8182	no	9
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22	Non Patent Literature	ROBERTSON_2007_p651_NPL.pdf	452260 9ef8a0788c3642b3049c00fa2b4355ff89696802	no	8
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27	Non Patent Literature	ROSADO_2000_p429_NPL.pdf	213043 546b8880ee153f0bcd0f1832e04e18bda17cd84e	no	9
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28	Non Patent Literature	ROSEN_1993_p59_NPL.pdf	1193405 56abcdea01e7d331a6e0db387ba524c19a68284e	no	4
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45	Non Patent Literature	SAMURA_2001_p1622_NPL.pdf	313880 b311a9cac1c823a0b940d8bdbb8c83ad2f3b116a	no	5
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46	Non Patent Literature	SANCHEZ_2018_12pgs_NPL.pdf	1373257 331aa3269739cc5fc8e704f401cd58ba9fb195b9	no	12
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49	Non Patent Literature	SANTALUCIA_1996.pdf	240650 5149e0d53248989d17d7c5366522c5fac1f06295	no	8
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50	Non Patent Literature	SANTALUCIA_2004.pdf	789212 b9092ed5ad5bab41451466110a2bb4df680c6714	no	30
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52	Non Patent Literature	SASABE.pdf	606558 7b0e595ca6ba1b27d5907a0a06fbdc372fec7936	no	9
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54	Non Patent Literature	SCHAAF_2011_p25_NPL.pdf	3268671 70f8f0098ec895b8cb4fcb8e36c5c84e4b65e32e	no	29
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59	Non Patent Literature	SCHOUTEN_2002_13pgs_NPL.pdf	8203467 0297ffe71665ac295b7da4a1f906128dcee3ea44	no	13
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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt	
EFS ID:	46902298
Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	27-OCT-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:47:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	StimulantWikipedia.pdf	1374191 7be444f04f656f5b1f5f128986bf2c9c75fd9fd2	no	17
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2	Non Patent Literature	STOLERMAN_2008_p1977_NPL.pdf	127843 15a0ae6d78e877ce25d82ea7210a9aba2a4ba3f3	no	7
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3	Non Patent Literature	STONE_2016_p230_NPL.pdf	1242911 d54038b75427c8da27ccd5cca9830ba715e5d36d	no	10
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4	Non Patent Literature	STROM_1998.pdf	1513582 3b55edffb2a6dcb25f85a4527e520b251fd42e62	no	9
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8	Non Patent Literature	SU_2011_p74_NPL.pdf	493317 ecea1f96c9ad1ffc7a6ee2899f6e909e5616ab4c	no	11
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22	Non Patent Literature	tang2009.pdf	173320 4d307b8f8739439d50796e15d4d091265fa0c6c6	no	5
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25	Non Patent Literature	TEWHEY_2009_p1025_NPL.pdf	1110042 841be98cce73f5d2ec0269670c1cb526612bae1f	no	11
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27	Non Patent Literature	THAVARAJAH_2012_p400_NPL.pdf	529952 c1da7d7a5d96a0d2b0aa1a286baf61bdedf516d2	no	14
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28	Non Patent Literature	THE_INTERNATIONAL_HAPMAP_CONSORTIUM_2003_789_NPL.pdf	567666 fc410fe9d6e0cf0eaba182a667a949e685f4e9d6	no	8
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39	Non Patent Literature	TOSHIKAZU_2003_p398_NPL.pdf	297907 3a34fea2cd21e14308de77df196cc013415c0070	no	15
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46	Non Patent Literature	TROYANSKAYA.pdf	1542011 b466aa9ad6455c69cf898a431d886d0c063782fc	no	6
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47	Non Patent Literature	TSANG_2007_p207_NPL.pdf	210952 bc2de0cfed1738721fb6c66dcf825d7dd3bc8808	no	11
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48	Non Patent Literature	TSANGARIS_2006_p9236_NPL.pdf	9263094 12f0b29ec6f6933f5c59958875f52969cbd69053	no	10
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		Total Files Size (in bytes):	65819786		

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt	
EFS ID:	46902258
Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	27-OCT-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:41:37
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	NATERA_Opening_Brief_in_Support_of_Motion_to_Dismiss_16MAY2019_NPL.pdf	309220 a6c6ed4e788e77662665a144d6d7ea88caf889ee	no	26
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2	Non Patent Literature	Natera_reply_dated_09NOV2018.pdf	226293 5a3c645628b12f2354c52609810340bbc6509943	no	8
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3	Non Patent Literature	NATERA_Supplemental_Objections_2019_29pgs_NPL.pdf	316458 b6f5924262c76de82e26fdd0f8abda92c82fc693	no	29
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4	Non Patent Literature	Nateras_Rule_3_3_Invalidity_Contentions_and_Rule_3_4_Production_dated_20AUG2018.pdf	340104 8e615845184d726ebeb8e74583b122418021e312	no	17
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8	Non Patent Literature	NCBI_dbSNP_rs2362450_2019_1pg_NPL.pdf	47355 63bfc73870b29217347af77317c4d266817657b2	no	1
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24	Non Patent Literature	NISHIWAKI_2008_p1161_NPL.pdf	3860616 fe51a00f7a9e1367d0e975e24d5219c09b467d82	no	8
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53	Non Patent Literature	PAKSTIS_2007_p317_NPL.pdf	438879 21d6ee68df9df93ae8f97070bcab3a0ae28e 77fd	no	13
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54	Non Patent Literature	PAKSTIS_2008_p481_NPL.pdf	294250 6f0d99154d002a6f1612b0a2eecd1f05f267 2847	no	3
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57	Non Patent Literature	PALOMAKI_2011_913_NPL.pdf	1176430 a348486d76b205a7ba4c70c6feeb7e7cd45 4b6b9	no	8
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59	Non Patent Literature	PANJKOVICH_2005_p711_NPL.pdf	934749 0f242885781eb3bfc7e5c2291a99fc7db4dedf47	no	12
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This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt

EFS ID:	46902246
Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	27-OCT-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:40:12
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Non Patent Literature	MARGUILES_2005_p376_NPL.pdf	3055574 883a0342d77181839d770df821bbe6f984886584	no	67
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7	Non Patent Literature	MARSHUTINA_EnglishAbstract_2010_p13_NPL.pdf	191242 50008bb35cb44ff019ab0507402fc6f79006a50c	no	3
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28	Non Patent Literature	Meyer_2010_20pgs_NPL.pdf	295279 8a87802b91bd12918952c97c39ae6f42c54 e1e04	no	20
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		Total Files Size (in bytes):	133094407		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt	
EFS ID:	46902289
Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	27-OCT-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:45:35
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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3	Non Patent Literature	SCHWARZENBACH_2011_p2848_NPL.pdf	502453 0b38b5d38b35371d8fe309c2c306d7f655133dcb	no	8
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4	Non Patent Literature	SCHWARZENBACH_p25_2004_NPL.pdf	477206 457f09c10ec1d6fa93fd7e79a60937b0f02bb96b	no	8
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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt	
EFS ID:	46902310
Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	27-OCT-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:48:55
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

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1	Non Patent Literature	URBANOVA_2010_p242_NPL.pdf	1026280 967b75ac9f5151e312e6130d23079f52f2036606	no	18
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		Total Files Size (in bytes):	86697710		

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New Applications Under 35 U.S.C. 111
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National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt	
EFS ID:	46902321
Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	27-OCT-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:51:09
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$260
RAM confirmation Number	E20220QF51490894
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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12	Non Patent Literature	XU_2016_324_NPL.pdf	1878528 905e7c48912ac366a1e13066093a983647d0fd3d	no	8
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13	Non Patent Literature	XUE_2009_p104_NPL.pdf	386126 474b55c8fd192cfeaef4f63b885b2c6c8361184a	no	5
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51	Non Patent Literature	ZLOTOGORA_2003_p347_NPL.pdf	96361 609468df5e311b31baf88a64a5900c228f04cd0c	no	6
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52	Information Disclosure Statement (IDS) Form (SB08)	N012US44-IDS-SB08-SIGNED.pdf	1338130 421e98c337c07f8ab7585dccd37bd9be2d37d294	no	196
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This is not an USPTO supplied IDS fillable form					
53	Fee Worksheet (SB06)	fee-info.pdf	38076 dce7085fa55be901f96da27b3ff24bd743101177	no	2
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		Total Files Size (in bytes):	108204871		

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Patent Application Fee Transmittal

Application Number:	17738354
Filing Date:	06-May-2022
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Filer:	Nishita Alka Doshi/Jeremy Johnston
Attorney Docket Number:	N.012.US.44

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Miscellaneous:				
SUBMISSION- INFORMATION DISCLOSURE STMT	1806	1	260	260
		Total in USD ($)		**260**

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/738,354
	Filing Date	May 6, 2022
	First Named Inventor	Joshua BABIARZ
	Art Unit	
	Examiner Name	
	Attorney Docket Number	N.012.US.44

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		20110224087	A1	2011-09-15	QUAKE, Stephen et al.	
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EXAMINER SIGNATURE

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Name/Print	Tianran Yan	Registration Number	67,162

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Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	27-OCT-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:09:04
Application Type:	Utility under 35 USC 111(a)

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt	
EFS ID:	46902163
Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	27-OCT-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:14:11
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Foreign Reference	WO2017205540A1.pdf	1483546 f3cfbd6697475ab0eaa062cb6ae10a1bf6e916c9	no	33
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		Total Files Size (in bytes):	261988671		

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New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Acknowledgement Receipt	
EFS ID:	46927934
Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	31-OCT-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:34:46
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$170
RAM confirmation Number	E20220UF34434705
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
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Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37946 1fa9dac00be9cde375f277877cfa8c88b494 6f40	no	2
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		Total Files Size (in bytes):	81569		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc Code: DISQ.E.FILE
Document Description: Electronic Terminal Disclaimer – Approved

Application No.: 17738354

Filing Date: 06-May-2022

Applicant/Patent under Reexamination: BABIARZ

Electronic Terminal Disclaimer filed on October 31, 2022

☒ APPROVED

This patent is subject to a terminal disclaimer

☐ DISAPPROVED

Approved/Disapproved by: Electronic Terminal Disclaimer automatically approved by EFS-Web

U.S. Patent and Trademark Office

Electronic Patent Application Fee Transmittal

Application Number:	17738354
Filing Date:	06-May-2022
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Filer:	Nishita Alka Doshi/Jeremy Johnston
Attorney Docket Number:	N.012.US.44

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
STATUTORY OR TERMINAL DISCLAIMER	1814	1	170	170
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**170**

Doc Code: DIST.E.FILE **Document Description: Electronic Terminal Disclaimer - Filed**	PTO/SB/25 U.S. Patent and Trademark Office Department of Commerce

Electronic Petition Request	**TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING REJECTION OVER A PENDING "REFERENCE" APPLICATION**
Application Number	17738354
Filing Date	06-May-2022
First Named Inventor	Joshua BABIARZ
Attorney Docket Number	N.012.US.44
Title of Invention	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS

☒ Filing of terminal disclaimer does not obviate requirement for response under 37 CFR 1.111 to outstanding Office Action

☒ This electronic Terminal Disclaimer is not being used for a Joint Research Agreement.

Owner	Percent Interest
Natera, Inc.	100%

The owner(s) of percent interest listed above in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending reference Application Number(s)

17568854 filed on 01/05/2022

as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the reference application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term of any patent granted on said reference application, "as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application," in the event that any such patent granted on the pending reference application: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant.

◉ Terminal disclaimer fee under 37 CFR 1.20(d) is included with Electronic Terminal Disclaimer request.

○ I certify, in accordance with 37 CFR 1.4(d)(4), that the terminal disclaimer fee under 37 CFR 1.20(d) required for this terminal disclaimer has already been paid in the above-identified application.	
Applicant claims the following fee status: ○ Small Entity ○ Micro Entity ◉ Regular Undiscounted I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.	
THIS PORTION MUST BE COMPLETED BY THE SIGNATORY OR SIGNATORIES I certify, in accordance with 37 CFR 1.4(d)(4) that I am: ◉ An attorney or agent registered to practice before the Patent and Trademark Office who is of record in this application Registration Number 61573 ○ A sole inventor ○ A joint inventor; I certify that I am authorized to sign this submission on behalf of all of the inventors as evidenced by the power of attorney in the application ○ A joint inventor; all of whom are signing this request	
Signature	/Nishita Doshi/
Name	Nishita Doshi

*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L581	561	tumor SAME cell free SAME (amplif$7 OR PCR OR polymerase chain reaction) SAME multiplex	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2022/10/30 03:01 PM
L582	561	L581	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2022/10/30 03:01 PM
L583	445	L582 AND ((C12Q1/6886 OR C12Q2600/156 OR C12Q1/6806 OR C12Q1/6869 OR C12Q2600/16 OR C12Q1/686 OR C12Q1/6827).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2022/10/30 03:02 PM
L584	474	tumor SAME cell free SAME (amplif$7 OR PCR OR polymerase chain reaction) SAME	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU,	ADJ	ON	ON	2022/10/30 03:05 PM

		multiplex SAME sequenc$3	CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L585	350	L584 AND ((C12Q1/6886 OR C12Q2600/156 OR C12Q1/6869 OR C12Q2600/16 OR C12Q1/686).cpc.)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2022/10/30 03:06 PM
L586	112	L585 AND @ay<"2015"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2022/10/30 03:07 PM
L587	149	tumor SAME cell free SAME (amplif$7 OR PCR OR polymerase chain reaction) SAME multiplex SAME sequenc$3 SAME (depth OR sensitiv$3)	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN,	ADJ	ON	ON	2022/10/30 03:09 PM

			WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L588	3488	"l58" AND @ay<"2015"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2022/10/30 03:10 PM
L589	170	"l588" AND @ay<"2015"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2022/10/30 03:11 PM
L590	64	L587 AND @ay<"2015"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2022/10/30 03:15 PM
L591	71	tumor SAME cell free SAME ((amplif$7 OR PCR OR polymerase chain reaction) near3 multiplex) SAME sequenc$3 SAME	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	ADJ	ON	ON	2022/10/30 03:21 PM

		(depth OR sensitiv$3)	HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)				
L592	27	L591 AND @ay<"2015"	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	ADJ	ON	ON	2022/10/30 03:21 PM

PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N41	3	(tumor SAME cell free SAME ((amplif$7 OR PCR OR polymerase chain reaction) near3 multiplex) SAME sequenc$3 SAME (depth OR sensitiv$3)).clm.	(US-PGPUB; USPAT)	ADJ	ON	ON	2022/10/30 03:27 PM

Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Field

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17/738,354
	Filing Date	May 6, 2022
	First Named Inventor	Joshua BABIARZ
	Art Unit	
	Examiner Name	
	Attorney Docket Number	N.012.US.44

U.S. PATENTS

Examiner Initial*	Cite No	Patent Number	Kind Code[1]	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		3957654		1976- 05-18	AYRES, W. A.	
		4040785		1977-08-09	KIM, Y. R., et al.	
		4683195		1987-07-28	Mullis, KARY B., et al.	
		4942124		1990-07-17	CHURCH, GEORGE et al.	
		5486477		1996-01-23	CARVER, E. L.	
		5635366	A	1997-06-03	Cooke, Brian et al.	
		5648220		1997-07-15	BIANCHI, D. W., et al.	
		5716776	A	1998-02-10	BOGART, Mark H	
		5736033		1998-04-07	COLEMAN, C. M., et al.	
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		5824467	A	1998-10-20	Mascarenhas, Desmond	
		5854033		1998-12-29	Lizardi, P. M.	
		5860917	A	1999-01-19	Comanor, Lorraine et al.	
		5891734		1999-04-06	GILL, J. E., et al.	
		5952170	A	1999-09-14	Stroun, Maurice et al.	
		5962223	A	1999-10-05	Whiteley, Norman M., et al.	
		5976790		1999-11-02	Pinkel, D. et al.	
		5972602	A	1999-11-30	HYLAND, Catherine et al.	
		5994148	A	1999-11-30	Stewart, Dennis R., et al.	
		6001611	A	1999-12-14	Will, Stephen	
		6025128	A	2000-02-15	Veltri, Robert W., et al.	
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		6100029		2000-08-08	Lapidus, S. et al.	
		6108635	A	2000-08-22	Herren, L. Tandy et al.	
		6124120		2000-09-26	LIZARDI, P. M.	
		6143496	A	2000-11-07	BROWN, James F et al.	
		6156504		2000-12-05	GOCKE, C. et al.	
		6180349	B1	2001-01-30	Ginzinger, David G.	
		6235472	B1	2001-02-22	Landegren, U. et al.	
		6214558	B1	2001-04-10	SHUBER, Anthony P et al.	
		6221603	B1	2001-04-24	Mahtani, M. M.	
		6258540	B1	2001-07-10	Lo, Yuk-Ming D., et al.	
		6300077	B1	2001-10-09	SHUBER, Anthony P et al.	
		6329179	B1	2001-12-11	KOPRESKI, MICHAEL S.	

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		6335167	B1	2002-01-01	Pinkel, D. et al.	
		6440706	B1	2002-08-27	VOGELSTEIN, Bert et al.	
		6479235	B2	2002-11-12	SCHUMM, J., et al.	
		6489135	B1	2002-12-03	Parrott, Jeff A., et al.	
		6605451	B1	2003-08-12	Marmaro, Jeffrey et al.	
		6617137	B2	2003-09-09	DEAN, F. B., et al.	
		6720140	B1	2004-04-13	Hartley, James L., et al.	
		6794140	B1	2004-09-21	Goldsborough, A. S.	
		6807491	B2	2004-10-19	PAVLOVIC, Vladimir et al.	
		6858412	B2	2005-02-22	Willis, Thomas et al.	
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		6958211	B2	2005-10-25	Vingerhoets, Johan H., et al.	
		6964847	B1	2005-11-15	ENGLERT, D. F.	
		7035739	B1	2006-04-25	Schadt, Eric E., et al.	
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		7101663	B2	2006-09-05	Godfrey, Tony E., et al.	
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		7332277	B2	2008-02-19	Dhallan, Ravinder S.	
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		7442506	B2	2008-12-02	DHALLAN, Ravinder S	
		7459273	B2	2008-12-02	JONES, Keith W et al.	
		7645576	B2	2010-01-12	LO, Yuk-Ming D et al.	
		7655399	B2	2010-02-02	Cantor, Charles et al.	
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		7718367	B2	2010- 05-18	LO, Yuk-Ming D et al.	
		7718370	B2	2010-06-01	DHALLAN, Ravinder S	
		7741463	B2	2010-06-22	Gormley, Niall A., et al.	
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		7790393	B2	2010-09-07	LYAMICHEV, V. I., et al.	
		7790418	B2	2010-09-07	Mayer, P.	
		7727720	B2	2010-09-28	DHALLAN, Ravinder S	

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		7838647	B2	2010-11-23	Hahn, Sinuhe et al.	
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		8133719	B2	2012-03-13	DRMANAC, R. et al.	
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		8389578	B2	2013-03-05	WENT, G. T., et al.	
		8450063	B2	2013- 05-28	DUBE, S. et al.	
		8501409	B2	2013-08-06	Simen, Birgitte B., et al.	
		8467976	B2	2013-08-20	LO, Yuk Ming Dennis et al.	
		8515679	B2	2013-08-20	Rabinowitz, Matthew et al.	

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	Examiner Name	
	Attorney Docket Number	N.012.US.44

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		8679741	B2	2014-03-25	Hoyal-Wrightson, Carolyn et al.	
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		8748103	B2	2014-06-10	Faham, Malek et al.	
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	First Named Inventor	Joshua BABIARZ
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	Examiner Name	
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	Art Unit	
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EXAMINER SIGNATURE

Examiner Signature	/JOHN S BRUSCA/	Date Considered	10/30/2022

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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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).

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☐ 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.

☐ None

The submission of this Information Disclosure Statement does not constitute an admission that a search was made, does not constitute an admission that any information cited is prior art, and does not constitute an admission that no other or better art exists.

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	/Tianran Yan/	Date (YYYY-MM-DD)	2022-10-21
Name/Print	Tianran Yan	Registration Number	67,162

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /JSB/

Bibliographic Data

Application No: 17/738,354

Foreign Priority claimed: ○ Yes ◉ No

35 USC 119 (a-d) conditions met: ☐ Yes ☑ No ☐ Met After Allowance

Verified and Acknowledged: /JOHN S BRUSCA/ Examiner's Signature | Initials

Title: DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
05/06/2022	506	1672	N.012.US.44
RULE			

APPLICANTS

Natera, Inc., San Carlos, CA,

INVENTORS

Joshua BABIARZ, Castro Valley, CA, UNITED STATES

Tudor Pompiliu CONSTANTIN, Berkeley, CA, UNITED STATES

Lane A. EUBANK, San Carlos, CA, UNITED STATES

George GEMELOS, Portland, OR, UNITED STATES

Matthew Micah HILL, Belmont, CA, UNITED STATES

Huseyin Eser KIRKIZLAR, Los Angeles, CA, UNITED STATES

Matthew RABINOWITZ, San Francisco, CA, UNITED STATES

Onur SAKARYA, Redwood City, CA, UNITED STATES

Styrmir SIGURJONSSON, San Jose, CA, UNITED STATES

Bernhard ZIMMERMANN, Manteca, CA, UNITED STATES

CONTINUING DATA

This application is a CON of 17692469 03/11/2022

17692469 is a CON of 15898145 02/15/2018 PAT 11319595

15898145 is a CON of 14692703 04/21/2015 PAT 10179937

14692703 has PRO of 62148173 04/15/2015

14692703 has PRO of 62147377 04/14/2015

14692703 has PRO of 62146188 04/10/2015

14692703 has PRO of 62066514 10/21/2014

14692703 has PRO of 61994791 05/16/2014

14692703 has PRO of 61987407 05/01/2014

14692703 has PRO of 61982245 04/21/2014

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

05/23/2022

STATE OR COUNTRY

UNITED STATES

ADDRESS

Natera, Inc.
201 Industrial Road
Suite 410
San Carlos, CA 94070
UNITED STATES

FILING FEE RECEIVED

$7,840

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/738,354	BABIARZ et al.
	Examiner	**Art Unit**
	JOHN S BRUSCA	1672

CPC						
Symbol					**Type**	**Version**
C12Q	/	1	/	6886	F	2013-01-01
G06N	/	20	/	00	I	2019-01-01
G16B	/	15	/	00	I	2019-02-01
G16B	/	25	/	00	I	2019-02-01
G16B	/	40	/	00	I	2019-02-01
C12Q	/	1	/	6869	I	2013-01-01
G16B	/	40	/	20	I	2019-02-01
G16B	/	20	/	10	I	2019-02-01
G16B	/	20	/	00	I	2019-02-01
G16B	/	20	/	20	I	2019-02-01
G16Z	/	99	/	00	I	2019-02-01
G16H	/	50	/	20	I	2018-01-01
G06N	/	7	/	005	I	2013-01-01
G16H	/	10	/	40	I	2018-01-01
C12Q	/	2539	/	10	A	2013-01-01
G16B	/	25	/	20	A	2019-02-01
C12Q	/	2600	/	156	A	2013-01-01
C12Q	/	2600	/	158	A	2013-01-01
C12Q	/	2600	/	16	A	2013-01-01
C12Q	/	2600	/	172	A	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	28	
/JOHN S BRUSCA/ Primary Examiner, Art Unit 1672	30 October 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	none

U.S. Patent and Trademark Office — Part of Paper No.: 20221030

NATERA EX2003
NeoGenomics v. Natera, IPR2024-00346
Page 1091

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/738,354	BABIARZ et al.
	Examiner	**Art Unit**
	JOHN S BRUSCA	1672

INTERNATIONAL CLASSIFICATION				
CLAIMED				
C12Q1/6886	/	1	/	6886
G06N20/00	/	20	/	00
G16B15/00	/	15	/	00
G16B25/00	/	25	/	00
G16B40/00	/	40	/	00
C12Q1/6869	/	1	/	6869
G16B40/20	/	40	/	20
G16B20/10	/	20	/	10
G16B20/00	/	20	/	00
G16B20/20	/	20	/	20
G16Z99/00	/	99	/	00
G16H50/20	/	50	/	20
G06N7/00	/	7	/	00
G16H10/40	/	10	/	40
G16B25/20	/	25	/	20

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCE(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	28	
/JOHN S BRUSCA/ Primary Examiner, Art Unit 1672	30 October 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	none

U.S. Patent and Trademark Office — Part of Paper No.: 20221030

NATERA EX2003
NeoGenomics v. Natera, IPR2024-00346
Page 1092

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/738,354	BABIARZ et al.
	Examiner	Art Unit
	JOHN S BRUSCA	1672

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☑ T.D. ☐ R.1.47

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original

NONE		Total Claims Allowed:	
(Assistant Examiner)	(Date)	28	
/JOHN S BRUSCA/ Primary Examiner, Art Unit 1672	30 October 2022	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	1	none

U.S. Patent and Trademark Office — Part of Paper No.: 20221030

NATERA EX2003
NeoGenomics v. Natera, IPR2024-00346
Page 1093

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	17/738,354	BABIARZ et al.
	Examiner	Art Unit
	JOHN S BRUSCA	1672

CPC - Searched*		
Symbol	Date	Examiner

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Inventor name search-PE2P-DAV PE2E-SEARCH-see search history printouts	10/30/2022	/JSB/

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	PE2E-SEARCH-see search history printout	10/30/2022	/JSB/

/JOHN S BRUSCA/ Primary Examiner, Art Unit 1631	

NATERA EX2003
NeoGenomics v. Natera, IPR2024-00346
Page 1094

Examiner-Initiated Interview Summary	**Application No.** 17/738,354	**Applicant(s)** BABIARZ et al.		
	Examiner JOHN S BRUSCA	**Art Unit** 1672	**AIA (First Inventor to File) Status** Yes	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
JOHN S BRUSCA	Primary Examiner	Telephonic
Tianran Yan	Attorney of Record	

Date of Interview: 31 October 2022

Issues Discussed:

Non-statutory Double Patenting

The applicants were requested to file a terminal disclaimer over Application No. 17/568,854 to obviate a new grounds of rejection under non-statutory double patenting. The applicants agreed to file the terminal disclaimer.

/JOHN S BRUSCA/ Primary Examiner, Art Unit 1672	

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

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NeoGenomics v. Natera, IPR2024-00346
Page 1095

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

110711 7590 11/08/2022

Natera, Inc.
201 Industrial Road
Suite 410
San Carlos, CA 94070

EXAMINER
BRUSCA, JOHN S

ART UNIT	PAPER NUMBER
1672	

DATE MAILED: 11/08/2022

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/738,354	05/06/2022	Joshua BABIARZ	N.012.US.44	8319

TITLE OF INVENTION: DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	02/08/2023

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 1/2 the amount of undiscounted fees, and micro entity fees are 1/2 the amount of small entity fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PTOL-85 (Rev. 02/11)

NATERA EX2003
NeoGenomics v. Natera, IPR2024-00346
Page 1096

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

110711 7590 11/08/2022

Natera, Inc.
201 Industrial Road
Suite 410
San Carlos, CA 94070

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/738,354	05/06/2022	Joshua BABIARZ	N.012.US.44	8319

TITLE OF INVENTION: DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	02/08/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
BRUSCA, JOHN S	1672	506-002000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑Issue Fee ❑Publication Fee (if required) ❑Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

❑ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

NATERA EX2003
NeoGenomics v. Natera, IPR2024-00346
Page 1097

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/738,354	05/06/2022	Joshua BABIARZ	N.012.US.44	8319

110711 7590 11/08/2022

Natera, Inc.
201 Industrial Road
Suite 410
San Carlos, CA 94070

EXAMINER	
BRUSCA, JOHN S	
ART UNIT	**PAPER NUMBER**
1672	

DATE MAILED: 11/08/2022

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 02/11)

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

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.
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.

Notice of Allowability	**Application No.** 17/738,354	**Applicant(s)** BABIARZ et al.	
	Examiner JOHN S BRUSCA	**Art Unit** 1672	**AIA (FITF) Status** Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to the amendment and arguments received 07 October 2022.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 1 and 3-29 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information , please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 10/27/2022.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☑ Interview Summary (PTO-413), Paper No./Mail Date. 10/31/2022.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/JOHN S BRUSCA/
Primary Examiner, Art Unit 1672

DETAILED ACTION

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Status of the Claims

2. Claims 1 and 3-29 are pending.

Claims 1 and 3-29 are allowed.

Priority

3. Claims 1 and 3-29 are given the benefit of the claim to priority to Provisional Application No. 61/982,245 filed 21 April 2014.

Claim Objections

4. The objection to claim 1 in the Office action mailed 07 July 2022 is withdrawn in view of the amendment received 07 October 2022.

Claim Interpretation

5. The terms "clonal SNV mutations" and "subclonal SNV mutations" in claims 4-6 are interpreted as discussed in the specification at paragraphs 111 and 748. Paragraph 48 states that plasma has a cumulative representation of SNV mutations. Plasma samples are therefore interpreted as comprising both clonal and subclonal SNV mutations.

Claim Rejections - 35 USC § 112

6. The rejection of claims 1-15 under 35 U.S.C. 112(b) in the Office action mailed 07 July 2022 is withdrawn in view of the arguments and amendment received 07 October 2022.

Claim Rejections - 35 USC § 103

7. The rejection of claims 1, 3, 7, 9, and 11-14 under 35 U.S.C. 103 as being unpatentable over Forshew et al. (Science Translational Medicine vol. 4, article 136ra68 plus supplementary material (2012)) in view of Benesova et al. (Analytical Biochemistry vol. 433, pages 227-234 (2013)) in the Office action mailed 07 July 2022 is withdrawn in view of the arguments and amendment received 07 October 2022.

8. The rejection of claims 4-6 and 8 under 35 U.S.C. 103 as being unpatentable over Forshew et al. in view of Benesova et al. as applied to claims 1, 3, 7, 9, and 11-14 above, and further in view of Marusyk et al. (Biochimica et Biophysica Acta vol. 1805 pages 105-117 (2010)) in the Office action mailed 07 July 2022 is withdrawn in view of the arguments and amendment received 07 October 2022.

9. The rejection of claim 10 under 35 U.S.C. 103 as being unpatentable over Forshew et al. in view of Benesova et al. as applied to claims 1, 3, 7, 9, and 11-14 above, and further in view of Anderson et al. (WO 2004/051218) in the Office action mailed 07 July 2022 is withdrawn in view of the arguments and amendment received 07 October 2022.

10. The rejection of claims 14 and 15 under 35 U.S.C. 103 as being unpatentable over Forshew et al. in view of Benesova et al. as applied to claims 1, 3, 7, 9, and 11-14 above, and further in view of Diehl et al. (Proceedings of the National Academy of Sciences USA vol. 102, pages 16368-16373 (2005)) in the Office action mailed 07 July 2022 is withdrawn in view of the arguments and amendment received 07 October 2022.

Terminal Disclaimer

11. The terminal disclaimers filed on 07 October 2022 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of **U.S.**

Patent No. 11,319,596 and 11,371,100 and Application Nos. 17/959,543, 17/692,469, 16/288,416, and 16/359,917 has been reviewed and is accepted. The terminal disclaimer has been recorded.

12. The terminal disclaimer filed on 31 October 2022 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of **Application No. 17/568,854** has been reviewed and is accepted. The terminal disclaimer has been recorded.

Double Patenting

13. The rejection of claim 1 on the ground of nonstatutory double patenting as being unpatentable over claims 11 and 18 of U.S. Patent No. 11,319,596 in the Office action mailed 07 July 2022 is withdrawn in view of the terminal disclaimer received 07 October 2022.

14. The provisional rejection of claim 1 on the ground of nonstatutory double patenting as being unpatentable over claim 16 of copending Application No. 16/288,416 in view of Ku et al. (Expert Reviews in Molecular Diagnostics vol. 12, pages 241-251 (2012)) in the Office action mailed 07 July 2022 is withdrawn in view of the terminal disclaimer received 07 October 2022.

15. The rejection of claim 1 on the ground of nonstatutory double patenting as being unpatentable over claims 13 and 10 of U.S. Patent No. 11,371,100 in the Office action mailed 07 July 2022 is withdrawn in view of the terminal disclaimer received 07 October 2022.

16. The provisional rejection of claim 1 on the ground of nonstatutory double patenting as being unpatentable over claims 18 and 19 of copending Application No. 16/359,917 (reference application) in the Office action mailed 07 July 2022 is withdrawn in view of the terminal disclaimer received 07 October 2022.

17. The provisional rejection of claim 1 on the ground of nonstatutory double patenting as being unpatentable over claim 14 of copending Application No. 17/018,966 in view of Ku et al.

(Expert Reviews in Molecular Diagnostics vol. 12, pages 241-251 (2012)) in the Office action mailed 07 July 2022 is withdrawn in view of the amendment to the copending claims received 07 October 2022.

18. The provisional rejection of claims 1-15 under 35 U.S.C. 101 as claiming the same invention as that of claims 1-15 of copending Application No. 17/692,469 in the Office action mailed 07 July 2022 is withdrawn in view of the amendment to the copending claims received 07 October 2022. A new rejection on the ground of nonstatutory double patenting is obviated by the terminal disclaimer received 07 October 2022.

Reasons for Allowance

19. The following is an examiner's statement of reasons for allowance: The prior art does not show the limitation in independent claim 1 of a sequencing read depth of at least 50,000 per target locus in the context of the claimed subject matter. The prior art does not show the limitation in independent claim 15 of detecting a single nucleotide variant mutation that is present in less than or equal to 0.015% of the cell-free DNA comprising the single nucleotide variant locus in the context of the claimed subject matter.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

20. Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOHN S. BRUSCA whose telephone number is (571)272-0714.

The examiner's fax number is (571) 273-0714.The examiner can normally be reached M-F 8:30 AM-5:00PM.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at http://www.uspto.gov/interviewpractice.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Karlheinz Skowronek can be reached on (571) 272-9047. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JOHN S BRUSCA/
Primary Examiner, Art Unit 1631

Electronic Acknowledgement Receipt	
EFS ID:	47009447
Application Number:	17738354
International Application Number:	
Confirmation Number:	8319
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Customer Number:	110711
Filer:	Nishita Alka Doshi/Jeremy Johnston
Filer Authorized By:	Nishita Alka Doshi
Attorney Docket Number:	N.012.US.44
Receipt Date:	11-NOV-2022
Filing Date:	06-MAY-2022
Time Stamp:	15:30:54
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	yes
Payment Type	DA
Payment was successfully received in RAM	$1200
RAM confirmation Number	E2022AAF31342108
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Issue Fee Payment (PTO-85B)	N012US44-Issue-Fee-Transmittal-SIGNED.pdf	177242 df46b629a4a78db66e6f288aa86df607a40c3bc0	no	1
Warnings:					
Information:					
2	Fee Worksheet (SB06)	fee-info.pdf	37964 34919e51f114cf57163a54cc2ab450d4894e393f	no	2
Warnings:					
Information:					
		Total Files Size (in bytes):	215206		

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111
If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.
National Stage of an International Application under 35 U.S.C. 371
If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.
New International Application Filed with the USPTO as a Receiving Office
If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Electronic Patent Application Fee Transmittal

Application Number:	17738354
Filing Date:	06-May-2022
Title of Invention:	DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS
First Named Inventor/Applicant Name:	Joshua BABIARZ
Filer:	Nishita Alka Doshi/Jeremy Johnston
Attorney Docket Number:	N.012.US.44

Filed as Large Entity

Filing Fees for Utility under 35 USC 111(a)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				
Post-Allowance-and-Post-Issuance:				
UTILITY APPL ISSUE FEE	1501	1	1200	1200

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Extension-of-Time:				
Miscellaneous:				
		Total in USD ($)		**1200**

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via EFS-Web.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

110711 7590 11/08/2022

Natera, Inc.
201 Industrial Road
Suite 410
San Carlos, CA 94070

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via EFS-Web or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/738,354	05/06/2022	Joshua BABIARZ	N.012.US.44	8319

TITLE OF INVENTION: DETECTING MUTATIONS AND PLOIDY IN CHROMOSOMAL SEGMENTS

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	UNDISCOUNTED	$1200	$0.00	$0.00	$1200	02/08/2023

EXAMINER	ART UNIT	CLASS-SUBCLASS
BRUSCA, JOHN S	1672	506-002000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

❑ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

❑ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Natera, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): San Carlos, CA

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ☒ Corporation or other private group entity ❑ Government

4a. Fees submitted: ☒ Issue Fee ❑ Publication Fee (if required) ❑ Advance Order - # of Copies _____

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via EFS-Web ❑ Enclosed check ❑ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 506075

5. **Change in Entity Status** (from status indicated above)

❑ Applicant certifying micro entity status. See 37 CFR 1.29

❑ Applicant asserting small entity status. See 37 CFR 1.27

❑ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.
NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.
NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /Tianran Yan/ Date 11-11-2022

Typed or printed name Tianran Yan Registration No. 67,162

NATERA EX2003
NeoGenomics v. Natera, IPR2024-00346
Page 1110

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www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
17/738,354	12/20/2022	11530454	N.012.US.44	8319

110711 7590 11/30/2022

Natera, Inc.
201 Industrial Road
Suite 410
San Carlos, CA 94070

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)
(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PAIR WEB site http://pair.uspto.gov for additional inventors):

Joshua BABIARZ, Castro Valley, CA;
Tudor Pompiliu CONSTANTIN, Berkeley, CA;
Lane A. EUBANK, San Carlos, CA;
George GEMELOS, Portland, OR;
Matthew Micah HILL, Belmont, CA;

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Natera, Inc., San Carlos, CA;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.