

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT6734918

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JOHN STUELPNAGEL	03/30/2021
KEN SONG	03/30/2021
ARNOLD OLIPHANT	05/14/2021
CRAIG STRUBLE	05/09/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ARIOSIA DIAGNOSTICS, INC.
<b>Street Address:</b>	5945 OPTICAL COURT
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95138
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13426157
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(925)225-1128
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	925-251-6812
<b>Email:</b>	erica.layman@roche.com
<b>Correspondent Name:</b>	ERICA LAYMAN
<b>Address Line 1:</b>	4300 HACIENDA DRIVE
<b>Address Line 2:</b>	PATENTS
<b>Address Line 4:</b>	PLEASANTON, CALIFORNIA 94588
<b>ATTORNEY DOCKET NUMBER:</b>	33266-US
<b>NAME OF SUBMITTER:</b>	JENNIFER K. ROSENFELD
<b>SIGNATURE:</b>	/Jennifer K. Rosenfield/
<b>DATE SIGNED:</b>	05/28/2021
<b>Total Attachments: 6</b>	
source=33266-US Assign Inv to Ariosa 13426157 complete#page1.tif	
source=33266-US Assign Inv to Ariosa 13426157 complete#page2.tif	

source=33266-US Assign Inv to Ariosa 13426157 complete#page3.tif

source=33266-US Assign Inv to Ariosa 13426157 complete#page4.tif

source=33266-US Assign Inv to Ariosa 13426157 complete#page5.tif

source=33266-US Assign Inv to Ariosa 13426157 complete#page6.tif

## ASSIGNMENT

We,  
**John Stuelpnagel**, of San Jose, California, U.S.A.  
**Ken Song**, of San Diego, California, U.S.A.  
**Arnold Oliphant**, of Sunnyvale, California, U.S.A.  
**Craig Struble**, of San Jose, California, U.S.A.

(hereinafter "Assignors"), while employed by **Ariosa Diagnostics, Inc.** having a place of business at 5945 Optical Court, San Jose, California 95138, U.S.A.,

have invented one or more inventions (collectively, the "Invention"), which are at least as embodied in U.S. Patent Application No. 13/426,157, filed on March 21, 2012, entitled ASSAY SYSTEMS FOR DETERMINATION OF FETAL COPY NUMBER VARIATION, which application is referred to herein as the "Patent Application," which is a continuation-in-part of U.S. Patent Application No. 13/338,963, filed December 28, 2011 (Patent No. 8,700,338), which is a continuation-in-part of U.S. Patent Application 13/316,154 filed December 09, 2011, which claims the benefit of U.S. Provisional Patent Application No. 61/436,135 filed January 25, 2011; and is also a continuation-in-part of U.S. Patent Application No. 13/205,570 filed August 08, 2011 (Patent No. 9,890,421), which is a continuation-in-part of U.S. Patent Application No. 13/013,732 filed January 25, 2011, which claims the benefit of U.S. Provisional Patent Application No. 61/371,605, filed on August 06, 2010, both Provisional Applications are referred to herein as the "Provisional Application(s)."

In consideration of our obligations and other valuable consideration constituting adequate and full compensation, we each hereby sell, assign, and transfer to Ariosa Diagnostics, Inc., its successors and assigns (collectively, "Assignee"), each of our respective full and exclusive right, title, and interest in the Invention, the Patent Application, and any corresponding patent rights throughout the United States and its territories and dependencies, and all other countries and jurisdictions of the world, or hereby acknowledge the previous transfer to Assignee of all such right, title and interest in the Invention, the Patent Application, and any corresponding patent rights throughout the United States and its territories and dependencies, and all other countries and jurisdictions of the world. The conveyance of patent rights includes, without limitation, full and exclusive right, title, and interest in all non-provisional patent applications claiming all or part of the Invention and/or claiming the benefit of a filing date of the Patent Application, and any patents that may issue from any divisional, continuation, continuation-in-part, substitution, conversion, re-examination, reissue, renewal, prolongation or extension thereof; and the right to claim priority from the Patent Application as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law.

The Invention was made as a result of our activities at or on behalf of Assignee or as a result of our utilization of information, facilities or other resources of Assignee. The conditions under which the Invention was made are such as to entitle Assignee under the applicable law to each of our entire respective right, title, and interest in the Invention and any corresponding

patent applications and/or patents in the United States and its territories and dependencies, and all other countries and jurisdictions of the world.

Assignors each authorize and request the issuance of any patents arising from non-provisional patent applications claiming all or part of the Invention and/or claiming the benefit of a filing date of the Patent Application to the Assignee to be held as fully and entirely as the same would have been held by us had this assignment not been made.

Assignors each warrant that, to the best of their knowledge, there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied that will impair, diminish, limit, or abridge the interest herein conveyed.

Assignors each also agree upon reasonable request to communicate with the Assignee, its representatives or agents, any facts known to us respecting all or part of the Invention, and testify in any legal proceedings, sign all lawful papers, execute all non-provisional, divisional, continuation, continuation-in-part, re-examination, and reissue applications, make all rightful oaths, provide all requested documents, and do everything reasonably possible to aid the Assignee, its representatives or agents, to obtain and enforce proper patent protection for all or part of the Invention in the United States or any other country of the world. These provisions are binding upon each of our heirs, legal representatives, administrators and assigns.

The assignment of the rights of any Co-Inventor(s) are subject to separate assignment agreements. Assignors explicitly approve any such assignments.

This Assignment may be executed in one or more counterparts, each of which when executed and delivered, by facsimile or other electronic transmission, by mail delivery, or by other form of delivery, will be an original and all of which will constitute one and the same Assignment.

IN WITNESS WHEREOF, this Assignment is executed as of the date(s) indicated on the following counterpart signature page(s).

**REMAINDER OF PAGE INTENTIONALLY BLANK**

ASSIGNMENT COUNTERPART SIGNATURE PAGE

Case No.	Country	Filing Date	Serial No.
P33266-US	United States	March 21, 2012	13/426,157
P33265-US	United States	December 28, 2011	13/338,963
P33248-US2	United States	December 09, 2011	13/316,154
P33248-US	United States	January 25, 2011	61/436,135
P33261-US	United States	August 08, 2011	13/205,570
P33247-US1	United States	January 25, 2011	13/013,732
P33247-US	United States	August 06, 2010	61/371,605

ASSIGNOR:

Place: California

Dated: March 30, 2021

  
\_\_\_\_\_  
John Stuelpnagel

ASSIGNEE: Ariosa Diagnostics, Inc.

Place: Pleasanton, CA, USA

Dated: May 21, 2021

  
\_\_\_\_\_  
Suja Subramaniam  
Vice President, Intellectual Property

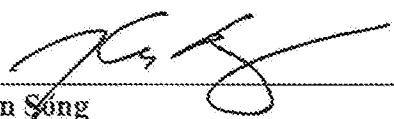
ASSIGNMENT COUNTERPART SIGNATURE PAGE

Case No.	Country	Filing Date	Serial No.
P33266-US	United States	March 21, 2012	13/426,157
P33265-US	United States	December 28, 2011	13/338,963
P33248-US2	United States	December 09, 2011	13/316,154
P33248-US	United States	January 25, 2011	61/436,135
P33261-US	United States	August 08, 2011	13/205,570
P33247-US1	United States	January 25, 2011	13/013,732
P33247-US	United States	August 06, 2010	61/371,605

ASSIGNOR:

Place: San Diego, CA USA

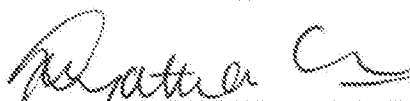
Dated: March 30, 2012

  
\_\_\_\_\_  
Ken Song

ASSIGNEE: Ariosa Diagnostics, Inc.

Place: Pleasanton, CA, USA

Dated: May 21, 2012

  
\_\_\_\_\_  
Suja Subramaniam  
Vice President, Intellectual Property

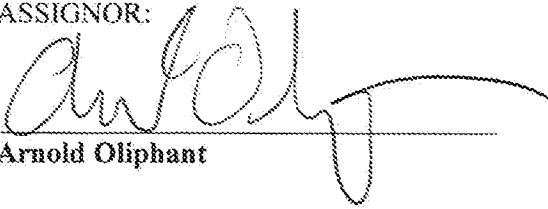
ASSIGNMENT COUNTERPART SIGNATURE PAGE

Case No.	Country	Filing Date	Serial No.
P33266-US	United States	March 21, 2012	13/426,157
P33265-US	United States	December 28, 2011	13/338,963
P33248-US2	United States	December 09, 2011	13/316,154
P33248-US	United States	January 25, 2011	61/436,135
P33261-US	United States	August 08, 2011	13/205,570
P33247-US1	United States	January 25, 2011	13/013,732
P33247-US	United States	August 06, 2010	61/371,605

ASSIGNOR:

Place: Morgan Hill, CA

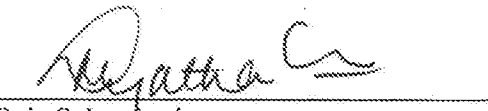
Dated: 14 May, 2021

  
Arnold Oliphant

ASSIGNEE: Ariosa Diagnostics, Inc.

Place: Pleasanton, CA, USA

Dated: May 21, 2021

  
Suja Subramaniam  
Vice President, Intellectual Property

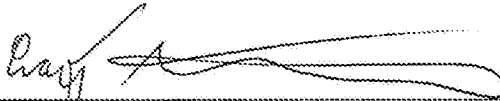
ASSIGNMENT COUNTERPART SIGNATURE PAGE

Case No.	Country	Filing Date	Serial No.
P33266-US	United States	March 21, 2012	13/426,157
P33265-US	United States	December 28, 2011	13/338,963
P33248-US2	United States	December 09, 2011	13/316,154
P33248-US	United States	January 25, 2011	61/436,135
P33261-US	United States	August 08, 2011	13/205,570
P33247-US1	United States	January 25, 2011	13/013,732
P33247-US	United States	August 06, 2010	61/371,605

ASSIGNOR:

Place: San Jose, CA

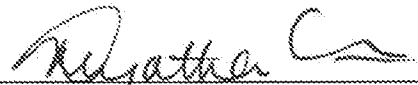
Dated: 05/09/2021

  
\_\_\_\_\_  
Craig Struble

ASSIGNEE: Ariosa Diagnostics, Inc.

Place: Pleasanton, CA, USA

Dated: May 21, 2021

  
\_\_\_\_\_  
Suja Subramaniam  
Vice President, Intellectual Property