

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
EUNJUNG HAN	11/17/2016
ROSS E. CURTIS	11/14/2016
PETER CARBONETTO	11/11/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ANCESTRY.COM DNA, LLC
<b>Street Address:</b>	1300 W. TRAVERSE PARKWAY
<b>City:</b>	LEHI
<b>State/Country:</b>	UTAH
<b>Postal Code:</b>	84043
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16249803
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(650)988-5200
<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>	(650) 335-7982
<b>Email:</b>	dmeans@fenwick.com
<b>Correspondent Name:</b>	FREDRICK TSANG
<b>Address Line 1:</b>	FENWICK & WEST LLP
<b>Address Line 2:</b>	801 CALIFORNIA STREET
<b>Address Line 4:</b>	MOUNTAIN VIEW, CALIFORNIA 94041
<b>ATTORNEY DOCKET NUMBER:</b>	29584-42568/US
<b>NAME OF SUBMITTER:</b>	FREDRICK TSANG, REG. NO. 68,680
<b>SIGNATURE:</b>	/Fredrick Tsang/
<b>DATE SIGNED:</b>	09/20/2019
<b>Total Attachments: 2</b>	
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## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to **Ancestry.com DNA, LLC**, a limited liability company of Delaware, having a place of business at **1300 W. Traverse Parkway, Lehi, UT 84043** ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following provisional or non-provisional application filed under 35 U.S.C. § 111, design application filed under 35 U.S.C. § 171, international application filed according to the Patent Cooperation Treaty (PCT), or U.S. national phase application filed under 35 U.S.C. § 371 ("APPLICATION"):

- Application No. **15/168,011**, entitled "**Discovering Population Structure from Patterns of Identity-By-Descent**" filed on May 28, 2016, which claims priority from a provisional application, filed on May 30, 2015, now bearing U.S. Application No. 62/168,808.

2. The entire worldwide right, title, and interest in and to:  
(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto that have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) that may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATION and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not

Title:	Discovering Population Structure from Patterns of Identity-By-Descent		
Filed:	May 28, 2016	Attorney Docket #:	29584-33530/US
Application #:	15/168,011		

hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other authority for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

INVENTOR hereby acknowledges that any willful false statement made in this document is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Name and Signature

*E Han*

Eunjung Han

Date of Signature

Nov 17, 2016

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Name and Signature

*Ross Eugene Curtis*

Ross E. Curtis

Date of Signature

Nov 14, 2016

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Name and Signature

*Peter Carbonetto*

Peter Carbonetto

Date of Signature

Nov 11, 2016

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