

Filed on behalf of: The Board of Trustees of the
Leland Stanford Junior University

Paper _____

By: R. Danny Huntington, Lead Counsel
Sharon E. Crane, Ph.D., Backup Counsel
Rothwell, Figg, Ernst & Manbeck, P.C.
607 14th St., N.W., Suite 800
Washington, DC 20005
Telephone: 202-783-6040
Facsimile: 202-783-6031
E-mail: dhuntington@rfem.com
scrane@rfem.com

Filed: July 29, 2014

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

SEQUENOM, INC.
Petitioner,

v.

THE BOARD OF TRUSTEES OF
THE LELAND STANFORD JUNIOR UNIVERSITY
Patent Owner.

Case IPR2013-00390
Patent 8,195,415

**PATENT OWNER STANFORD'S SUBMISSION OF
DEMONSTRATIVE EXHIBITS 1-31 FOR ORAL ARGUMENT**

Pursuant to the Order – Trial Hearing – 37 C.F.R. § 42.70, dated July 9, 2014 (Paper 40), Patent Owner The Board of Trustees of the Leland Stanford Junior University (“Stanford”) hereby submits the attached Stanford Demonstrative Exhibits 1-31, to be used at the oral hearing scheduled to be held on August 5, 2014. In accordance with 37 C.F.R. § 42.70, these Stanford Demonstrative Exhibits are concurrently being served on counsel for Petitioner Sequenom, Inc., and a copy will be provided to each Judge at the time of the oral hearing.

Respectfully submitted,

Date: July 29, 2014

By: /s/ R. Danny Huntington

R. Danny Huntington, Reg. No. 27,903
Sharon E. Crane, Ph.D., Reg. No. 36,113
Rothwell, Figg, Ernst & Manbeck, P.C.
607 14th Street, N.W., Suite 800
Washington, DC 20005

*Counsel for Patent Owner
The Board of Trustees of the Leland
Stanford Junior University*

Cited Art Is Dated July 23, 2008



(19) United States

(23) Patent Application Publication

(10) Pub. No.: US 2009/0029377 A1

(43) Pub. Date:

Jan. 29, 2009

(54) DIAGNOSING FETAL CHROMOSOMAL ANEUPLOIDY USING MASSIVELY PARALLEL SEQUENCING

(75) Inventors:
Yuk-Ming Dennis Lo, Howboon (HK); Rosa Wai Kwan Chiu, New Territories (HK); Kwun Chee Chiu, Nowson (HK)

Correspondence Address:
TOWNSEND AND TOWNSEND AND CREW, LLP
200 EMBARCADERO CENTER, EIGHTH FLOOR
SAN FRANCISCO, CA 94111-3844 (US)

(73) Assignor:
The Chinese University of Hong Kong, New Territories (HK)

(21) Appl. No.: 12/128,181

(22) Filed: Jul. 23, 2008

Related U.S. Application Data

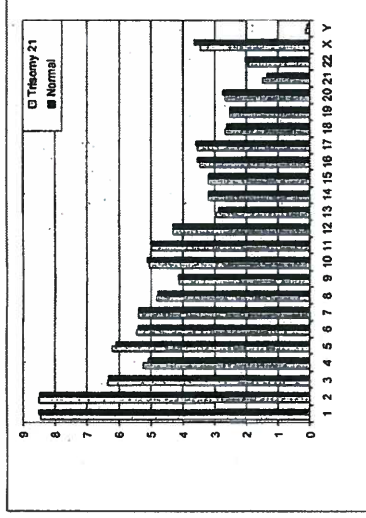
(60) Provisional application No. 60/951,438, filed on Jul. 23, 2007.

(51) Int. Cl.
C12Q 2/68 (2006.01)
G06P 1/16 (2006.01)

(52) U.S. Cl.
435/6; 702/20

ABSTRACT

Embodiments of this invention provide methods, systems, and apparatus for determining whether a fetal chromosomal aneuploidy exists from a biological sample obtained from a pregnant female. In one embodiment, the biological sample is sequenced to determine the presence of a chromosomal aneuploidy. Respective amounts of a clinically-relevant chromosome and of background chromosomes are determined from results of the sequencing. A parameter derived from these amounts (e.g., a ratio) is compared to a pre-determined threshold to determine whether a fetal chromosomal aneuploidy exists.



Page 1 of 22

SEQUENOM EXHIBIT 1002



Ex. 1002 (Lo II), Pg. 1

Provisional Application (Lo I) Does Not Anticipate

Filed on behalf of: The Board of Trustees of the
Leland Stanford Junior University

By: R. Danny Huntington, Esq.
Sharon E. Crane, Ph.D., Esq.

136. More importantly, Lo I lacks the disclosure of Lo II that Sequenom alleges to anticipate the claims, e.g., paragraph 60 of Lo II. In fact, in the IPR petition, Sequenom appears to concede that Lo I does not anticipate. (See, e.g., Paper 1, p. 37 – 45).

STANFORD EXHIBIT 2117
SEQUENOM v. STANFORD
CASE IPR2013-00390

Ex. 2117 (Dettler Decl.), ¶ 136

Stacey Bolk Gabriel, Ph.D.
IPR2013-00390

Q. So the idea of v is coming from not Lo, right?

A. **That is right.**

Case IPR2013-00390

Patent 8,195,415

PATENT OWNER NOTICE OF CROSS-EXAMINATION

STACEY BOLK GABRIEL, PH.D.

March 31, 2014
9:20 a.m.

Finnegan, Henderson, Farabow, Garrett & D
Two Seaport Lane, 6th Floor
Boston, Massachusetts

Reporter: Rosemary F. Grogan, RPR, CSR N

202-220-4158

Henderson Legal Services, Inc.
www.henderso

Ex. 2114 (Gabriel)

Petitioner Did Not Challenge That First Draft and I Of PNAS Paper Showed Reduction to Practice o

Filed on behalf of: The Board of Trustees of the
Leland Stanford Junior University

Paper _____

By: R. Denny Huntington, Lead Counsel
Sharon E. Crane, Ph.D., Backup Counsel
Rothwell, Figg, Ernst & Manbeck,
607 14th St., N.W., Suite 800
Washington, DC 20005
Telephone: 202-783-6040
Facsimile: 202-783-6031
E-mail: dhuntington@rfem.com
scrane@rfem.com

45. The June 19, 2008 draft (Ex. 2113) of the m
ultimately became Ex. 1036 described the work that I had
demonstrated our reduction to practice, because it showed

UNITED STATES PATENT

BEFORE THE PATENT TR

SEQUENOM, INC.
Petitioner,

THE BOARD OF
THE LELAND STANFORD
Patent

Case IPR:
Patent #

56. The second draft of the PNAS paper (Ex. 2112)
our reduction to practice, because it showed:

DECLARATION OF HEL-MUN CHRISTINA FAN, PH.D.

STANFORD EXHIBIT 2132
SEQUENOM v. STANFORD
CASE IPR2013-00390

1

Ex. 2132
See also Ex. 2138 (

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.