The United States of America

The Director of the United States Patent and Trademark Office

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, or importing into the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

Michelle K. Lee

Director of the United States Patent and Trademark Office



Sep. 22, 2015

(10) Patent No.: (45) Date of Patent:

(12) United States Patent Saluja et al.

(88) Field of Classification Search

See application file for complete search history. (56)

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Primary Examiner — Suchira Pande (74) Attorney, Agent, or Firm — The Webb Law Firm

TOARTERACT (TO

A process for designing of PCR-based detection method for Chlamydia trachomatis comprising designing of PCR primers from the genome sequence of Chlamydia trachomatis selecting DNA sequence of genes for PCR based diagnostic of Chlamydia trachomatis, optimizing the PCR conditions of the PCR primers; subjecting the said genes and primers to the step of characterization.

8 Claims, No Drawings

(75) Inventors: Daman Saluja, New Delhi (IN); Uma Chaudhury, New Delhi (IN); Mashook Ali, New Delhi (IN)

(73) Assignees: University of Delhi (IN); The Secretary, Department of Biotechnology (IN)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 820 days.

(12) Appl. No.: 13/220,268

(22) Filed: Aug. 29, 2011
(65) Priled: Aug. 29, 2011

US 2012/0010089 A1 Jan. 12, 2012

Related U.S. Application Data

(63) Continuation-in-part of application No. 12/064,143, filed as application No. PCT/IN2006/000282 on Aug. 7, 2006, now abandoned.

Foreign Application Priority Data (0)

Aug. 17, 2005 (IV) 1589DEL/2005

(51) Int. Cl. C12P 19/34 (2006.01) C12Q 1/68 (2006.01) (52) U.S. Cl.

CPC C12Q 1/689 (2013.01); C12Q 2600/16

प्ररूप ओ - 2 FORM 0-2







भारत सरकार **GOVERNMENT OF INDIA**

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GOVERNMENT OF INDIA MINISTRY OF SCIENCE & TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY





ब्लाक-2.7 वां तल, सी० जी० ओ० कम्पलेक्स लोदी रोड, नई दिल्ली-110003 Block-2, 7th Floor C.G.O. Complex Lodi Road, New Delhi-110003

No.BT/BPFC/04/151/2005

dated 18th May, 2010.

To

Dr (Ms) Daman Saluja, Director, Dr. B.R. Ambedkar Centre for Biomedical Research, University of Delhi, Delhi-110007

Sub:- Forwarding of Patent Certificate entitled "A multiplex PCR-based process for detecting Chlamydia trachomatis and neisseria gonorrhoeae."

Sir.

I am directed to forward herewith the Patent Certificate No.011 10693 in respect of your patent application entitled "A multiplex PCR-based process for detecting Chlamydia trachomatis and neisseria gonorrhoeae" which was granted on 09.04.2010 as Patent No.239908 by the Patent Office, Govt. of India.

Kindly acknowledge receipt of the Patent Certificate.

Yours faithfully,

(Anil Kumar) Section Officer

Website: http://www.dbtindia.nlc.in http://www.btisnet.gov.in दूरभाष / Telephone : 24363012, 24362329 फेंक्स / Fax : 011-24362884 SI. No.

10693







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Patent No.

: 239908

Application No.

: 3437/DEL/2005

Date of Filing

: 22/12/2005

Patentee

: 1.UNIVERSITY OF DELHI 2. DEPARTMENT OF BIOTECHNOLOGY

It is hereby certified that a patent has been granted to the patentee for an invention entitled A MULTIPLEX PCR-BASED PROCESS FOR DETECTING CHLAMYDIA TRACHOMATIS AND NEISSERIA GONOŘRHOEAE as disclosed in the above mentioned application for the term of 20 years from the 22 day of DECEMBER 2005, in accordance with the provisions of the Patents Act,1970.

Month Yodar Controller of Patents

Date of Grant: 09/04/2010

Controller General of Patent, Design & Trade marks

Note.-The fees for renewal of this patent, if it is to be maintained , will fall / has fallen due on 22 day of DECEMBER 2007 and on the same day in every year