

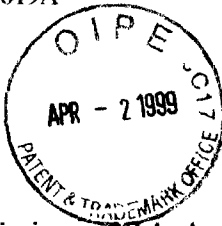
FORM PTO-1619A
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04-19-1999

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Month Day Year
12 16 1998

Name (line 1) CHING, WEI-ME

Name (line 2)

Second Party

Name (line 1) DARYL J. KELLY

Name (line 2)

Execution Date
Month Day Year
12 16 1998

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Name (line 1) UNITED STATES OF AMERICA AS REPRESENTED BY THE

Name (line 2) SECRETARY OF THE NAVY

Address (line 1) CHIEF OF NAVAL RESEARCH (Office of Counsel)

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REEL: 9887 FRAME: 0340

Correspondent Name and Address**Area Code and Telephone Number** 301-295-6759/60**Name** A. D. SPEVACK, ESQ. IP COUNSEL**Address (line 1)** NAVAL MEDICAL RESEARCH CENTER**Address (line 2)** 8901 WISCONSIN AVE (BLDG 17 ROOM 32)**Address (line 3)** BETHESDA, MD 20889-5607**Address (line 4)****Pages**Enter the total number of pages of the attached conveyance document
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Patent Application Number(s)**Patent Number(s)**

09218245

If this document is being filed together with a new Patent Application, enter the date the patent application was
signed by the first named executing inventor. Month Day Year**Patent Cooperation Treaty (PCT)**

Enter PCT application number	PCT	PCT	PCT
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Number of Properties

Enter the total number of properties involved. # 1

Fee Amount**Fee Amount for Properties Listed (37 CFR 3.41):** \$ 40.00**Method of Payment:**

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Execution Date
Month Day Year

Name (line 1) GREGORY A DASCH

12171998

Name (line 2)

Execution Date
Month Day Year

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Name (line 2)

Execution Date
Month Day Year

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Patent Application Number(s)

Patent Number(s)

ASSIGNMENT OF INVENTION

WHEREAS, I (we) WEI-MEI CHING; GREGORY A. DASCH; DARYL J. KELLY, of Bethesda, Maryland; Baltimore, Maryland; Glenn Dale, Maryland while employed by the Government of the United States of America, hereinafter referred to as the Government, have invented certain new and useful improvements EXPRESSION AND REFOLDING OF TRUNCATED RECOMBINANT MAJOR OUTER MEMBRANE PROTEIN ANTIGEN (R56) OF ORIENTIA TSUTSUGAMUSHI AND ITS USE IN ANTIBODY BASED DETECTION ASSAYS AND VACCINES identified as Navy Case No. 78359 and described in application for Letters Patent of the United States of America executed by me (us) on 12/24/97 having United States Patent Application Serial No. 09/218,425 filed 12/24/97; and

WHEREAS, the Government is desirous of acquiring an assignment of the invention disclosed in said application and other rights and benefits herein granted; and

WHEREAS, the conditions under which the invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096, to the entire right, title, and interest therein, including foreign rights; and

WHEREAS, as to foreign rights, it is the policy of the Government to obtain an option to exercise such rights;

NOW, THEREFORE, in consideration of the premises and other good and valuable consideration the receipt of which is hereby acknowledged, I (we) hereby assign and transfer to the United States of America as represented by the Secretary of the Navy the entire right title, and interest in and to said invention within the United States of America its territories and possessions, and the entire right, title, and interest in and to said application and any continuation, division or substitution thereof, and such Letters Patents as may issue therefrom and any reissue or extensions thereof, said invention, application and Letters Patent to be held by the United States of America as represented by the Secretary of the Navy to the end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this assignment not been made

I (we) do hereby also grant unto the Government, the option to take the entire right, title, and interest in the invention and all patent applications or other forms of protection thereon in all countries foreign to the United States of America in which the Government may file, or cause to be filed, applications for Letters Patent or other forms of protection, without payment of any consideration; provided, however, that this grant of an option to take foreign rights in the invention or applications or other forms of protection thereon, shall have force and effect only as to foreign countries in which an application or other form of protection is filed, or which are designated in a Patent Cooperation Treaty application filed within six months of the filing date of any application for United States Letters Patent covering the invention, or within six months from the declassification of the invention, whichever is later, and that all foreign rights not exercised under the option are left to me (us) subject to a nonexclusive, irrevocable, royalty-free license to the Government in any patent or other form of protection which may issue on said invention in any foreign country, including the power to issue sub-licenses for use in behalf of the Government and/or in furtherance of the foreign policies of the Government.

I (We) hereby further agree to make, execute, and deliver to the Government, any and all papers, documents, affidavits, statements, or other instruments that may be necessary in the prosecution of the application and of any continuations, division or substitution of the application, or any application for reissue or extension of said Letters Patent, and to assist the Government in every way in protecting the invention as may be requested, provided that any expenses arising through such efforts will be paid by the Government.

IN TESTIMONY WHEREOF, I (we) have set my (our) hand(s) and affixed my (our) seal(s).

3/30/99 (date) Wei-mei Ching (signature) SEAL
Dr. WEI-MEI CHING

3/30/99 (date) Gregory A. Dasch (signature) SEAL
Dr. GREGORY A. DASCH

30 Mar 99 (date) Daryl J. Kelly (signature) SEAL
Dr. DARYL J. KELLY