PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|--|
| NATURE OF CONVEYANCE: | EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE |

CONVEYING PARTY DATA

| Name | Execution Date |
|-----------------------|----------------|
| WASHINGTON UNIVERSITY | 07/02/2002 |

RECEIVING PARTY DATA

| Name: | National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government | |
|-------------------|--|--|
| Street Address: | NIH Division of Extramural Inventions and Technology Resources (DEITR) | |
| Internal Address: | 6705 Rockledge Drive, Suite 310, MSC 7980 | |
| City: | Bethesda | |
| State/Country: | MARYLAND | |
| Postal Code: | 20892-7980 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 09686499 |

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Total Attachments: 1

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PATENT REEL: 021445 FRAME: 0091

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License to the United States Government

Invention Title: Functional Balanced-Lethal Host-Vector Systems Inventor(s): Roy III Curtiss, , , , , , , , , , , Patent or Application Serial No.: 09/686,499 U.S. Filing/Issue Date: 10/11/00 Grant/Contract Identification Number(s): DE06669 HD29099 Foreign Applications filed/intended in (countries): The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14 or FAR 52.227-11, which are included among the terms of the above-identified grant/contract award from the United States Government. This document is confirmatory of:

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The Government is hereby granted an irrevocable power to inspect and make copies of the aboveidentified patent application.

| Monthled parent approximation |
|---|
| Signed this day of July, 20_62. |
| By(Name of Grantee Contractor Official) |
| Title Assoc Via Chancello |
| ForWASHINGTON_UNIVERSITY (Organization) |
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PATENT REEL: 021445 FRAME: 0092

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