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Conveyance Type



Assignment



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Conveying Party(ies)



Mark if additional names of conveying parties attached

Name (line 1)

Jay M. Short

Execution Date
Month Day Year

08 06 02

Name (line 2)

Second Party

Name (line 1)

Gerhard J. Frey

Execution Date
Month Day Year

08 07 02

Name (line 2)

Receiving Party



Mark if additional names of receiving parties attached

Name (line 1)

Diversa Corporation

Name (line 2)



If document to be recorded
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Address (line 1)

4955 Directors Place

Address (line 2)

Address (line 3)

San Diego

California

92121-3829

City

State/Country

Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name

Jane M. Love

Address (line 1)

Hale and Dorr LLP

Address (line 2)

300 Park Avenue

Address (line 3)

New York, NY 10022

Address (line 4)

United States of America

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Name

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Pages

Enter the total number of pages of the attached conveyance document including any attachments.

#

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

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
only if a U.S. Application Number
has not been assigned.

PCT

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Number of Properties

Enter the total number of properties involved.

#

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment:
Deposit Account

Enclosed ☐

Deposit Account ☒

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

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Authorization to charge additional fees:

Yes



No



Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Jane M. Love, Ph.D.

Name of Person Signing

Jane M. Love

Signature

August 9, 2002

Date

ASSIGNMENT

WHEREAS, I, **Jay M. Short** and **Gerhard J. Frey** employed by DIVERSA CORPORATION, organized and existing under the laws of the State of California, having its principal office at 4955 Directors Place, San Diego, CA 92121-3829, are the inventors of certain new and useful inventions and discoveries, for which application for Letters Patent entitled "**END SELECTION IN DIRECTED EVOLUTION**" was filed with the United States Patent and Trademark Office as **U.S. Application Serial No. 09/885,551** on **June 19, 2001**; and

WHEREAS, DIVERSA CORPORATION, together with its successors and assigns is hereinafter called "ASSIGNEE," is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited;

NOW, THEREFORE, for good and valuable consideration furnished by ASSIGNEE to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservations:

1. Assign, transfer, and convey to ASSIGNEE our entire right, title, and interest in and to said inventions and discoveries, said applications for Letters Patent, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all provisional, nonprovisional, divisional, renewal, substitute, continuation, continuation-in-part, continued prosecution applications, and convention applications based in whole, or in part, upon said inventions or discoveries, or upon said applications, and any and all Letters Patents, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon, or arise from, said inventions, said discoveries, said applications, and said Letters Patent;

2. Authorize ASSIGNEE to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable, under International Conventions or otherwise;

3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments throughout the world to issue or transfer all said Letters Patents to ASSIGNEE, as assignee of the entire right, title, and interest therein or otherwise as ASSIGNEE may direct;

4. Warrant that we have not knowingly conveyed to others any right in said inventions, discoveries, applications, or patents, or any license to use the same, or to make, use, or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to ASSIGNEE without encumbrance;

Assignment

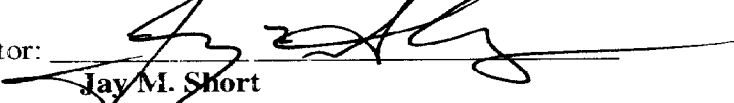
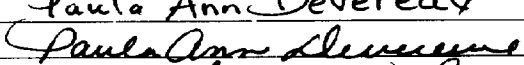
U.S. Serial No.: 00,385,551

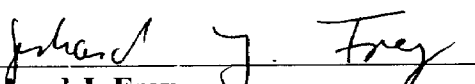
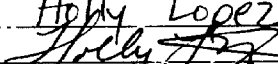
Filed: June 19, 2001

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5. Bind our heirs, legal representatives, and assigns, as well as ourselves, to do, upon ASSIGNEE's request and at ASSIGNEE's expense, but without additional consideration to us or them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications, and said Letters Patents shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives, and assigns if this Assignment had not been made; and particularly to execute and deliver to ASSIGNEE all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by ASSIGNEE; and to communicate to ASSIGNEE all facts known to us relating to said inventions and discoveries or the history thereof, and to testify as to the same in any court or proceeding; and to furnish ASSIGNEE any and all documents, photographs, models, samples, and other physical exhibits in my control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

IN TESTIMONY WHEREOF, we have hereunto set our hand and seal.

Date: 8/6/02 Signature of Inventor: 
Jay M. Short
Witness printed name: Paula Ann Devereux
Witness signature: 
Witness address: 4955 Directors Place, San Diego CA 92121

Date: 8/7/02 Signature of Inventor: 
Gerhard J. Frey
Witness printed name: Holly Lopez
Witness signature: 
Witness address: 4955 Directors Place, San Diego, CA 92121