

Form PTO-1595 (Rev. 09/04)
OMB No. 0651-0027 (exp. 6/30/2005)

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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Walter CALLEN (11/18/2004), Toby RICHARDSON (11/29/2004),
Gerhard FREY (12/09/2004), Carl A. MILLER (11/22/2004),
Martin KAZAOKA (11/29/2004), Eric MATHUR (12/09/2004), and
Jay M. SHORT (12/09/2004)

Execution Date(s) 11/18/2004, 11/22/2004, 11/29/2004,
12/09/2004

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

2. Name and address of receiving party(ies)

Name: Diversa Corporation

Internal Address: _____

Street Address: 4955 Directors Place

City: San Diego

State: California

Country: US Zip: 92121-1609

Additional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

10/489,510

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Lynn Linkowski, DIVERSA CORPORATION

Internal Address: Attny Docket: D1530-7WUS

Street Address: 4955 Directors Place

City: San Diego

State: California Zip: 92121-1609

Phone Number: 858-526-5450

Fax Number: 858-526-5950

Email Address: llinkowski@diversa.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

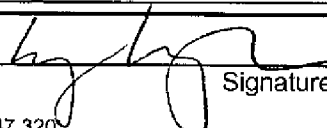
8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 50-0661

Authorized User Name Lynn Linkowski

9. Signature:



Signature

December 22, 2004

Date

Lynn Linkowski, Reg. No. 47,320

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 5

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
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Certificate of Transmission by Facsimile: I hereby certify that this correspondence is being transmitted by facsimile to the USPTO on the date indicated to Assignment Branch Fax No. 703-306-5995 12/22/04 (Date) Lynn Linkowski (Lynn Linkowski)

CH \$40.00 500661 10489510

Attorney Docket No. 564462006001
United States Patent Application No. 10/489,510
Assignment
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ASSIGNMENT

For valuable consideration, We, Walter CALLEN of 3469 Stetson Avenue, San Diego, California 92122; Toby RICHARDSON of 11646 Candy Rose Way, San Diego, California 92131; Gerhard FREY of 13768 Via Cima Bella, San Diego, California 92129; Carl A. MILLER of 417 Martindale Dr, Raleigh, North Carolina 27614; Martin KAZAOKA of 11326 Matinal Circle, San Diego, California 92127; Eric J. MATHUR of 2654 Galicia Way, Carlsbad, California 92009; and Jay M. SHORT of 6801 Paseo Delicias, Rancho Santa Fe, California 92067 hereby assign to DIVERSA CORPORATION, a Delaware corporation having a place of business at 4955 Directors Place, San Diego, California 92121-1609 and its successors and assigns (collectively hereinafter called the "Assignee"), the entire right, title and interest throughout the world in the invention(s) and improvement(s) which are subject of a United States Patent Application entitled AMYLASES, NUCLEIC ACIDS ENCODING THEM AND METHODS FOR MAKING AND USING THEM, assigned serial number 10/489,510, corresponding to International Application No. PCT/US03/08906, international filing date March 24, 2003, claiming priority from U.S. Application Serial No. 10/105,733, filed March 22, 2002, and any corresponding applications for United States patents signed by us, WE authorize and request the attorney(s) appointed in said application to hereafter complete this Assignment by inserting above the filing date and serial number of future related applications when known and to insert on this Assignment any further identification, including any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document; and WE authorize and request the attorney(s) appointed in said application to hereafter insert the filing date(s) and serial number(s) of related converted provisional applications, nonprovisional applications converted to provisional applications, continuations, divisionals, continuations-in-part (CIPs), reissues, reexaminations, and international applications when known. This Assignment includes the application(s) cited herein and any and all related United States patent applications, including converted provisional applications, nonprovisional applications converted to provisional applications, divisionals, reissues, reexaminations, continuations, CIPS, any and all United States and foreign patents, utility models, and design registrations granted for any of said invention(s)

sd-230553

PATENT
REEL: 015490 FRAME: 0622

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United States Patent Application No. 10/489,510
Assignment
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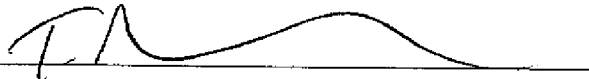
or improvement(s), and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and WE authorize the Assignee to apply in all countries in my name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said invention(s) and improvement(s); and WE agree for ourselves and our respective heirs, legal representatives, successors and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this Assignment.

In Witness Whereof, I hereto set my hand and seal at San Diego, this
18th day of November, 2004.



Walter CALLEN

In Witness Whereof, I hereto set my hand and seal at San Diego, this
29th day of November, 2004.



Toby RICHARDSON

Attorney Docket No. 564462006001
United States Patent Application No. 10/489,510
Assignment
Page 3 of 4

In Witness Whereof, I hereto set my hand and seal at San Diego, this
9th day of December, 2004.

Gerhard Fry
Gerhard FREY

In Witness Whereof, I hereto set my hand and seal at Raleigh, NC, this
22nd day of November, 2004.

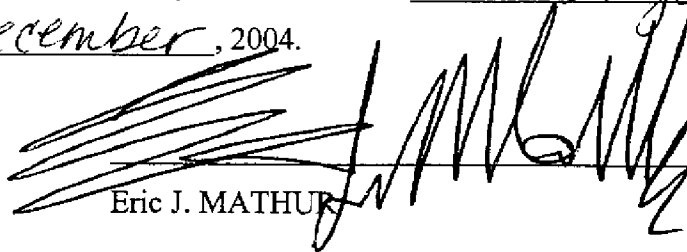
Carl A. Miller
Carl A. MILLER

In Witness Whereof, I hereto set my hand and seal at San Diego, this
29 day of November, 2004.

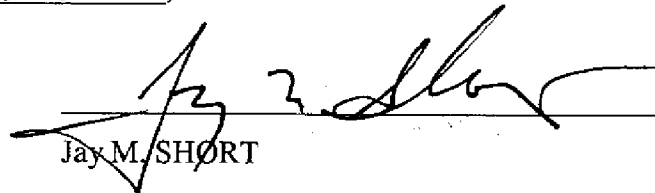
Martin Kazaoka
Martin KAZAOKA

Attorney Docket No. 564462006001
United States Patent Application No. 10/489,510
Assignment
Page 4 of 4

In Witness Whereof, I hereto set my hand and seal at San Diego, this
9th day of December, 2004.


Eric J. MATHUR

In Witness Whereof, I hereto set my hand and seal at San Diego, this
9th day of December, 2004.


Jay M. SHORT