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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

John M.J. Madey
Eric Brent Szarmes
Orior Crissafulli

7-23-02

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

04/24/2002

Execution Date: _____

2. Name and address of receiving party(ies)

Name: University of Hawaii

Internal Address: _____

Street Address: 2800 Woodlawn Drive, Suite 280

City: Honolulu State: HI Zip: 96822

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

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 10/081,577

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: Gary R. Maze

Internal Address: Duane Morris LLP

Street Address: One Greenway Plaza, Suite 500

City: Houston State: TX Zip: 77046

6. Total number of applications and patents involved: ☐

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

- ☐ Enclosed
☒ Authorized to be charged to deposit account

8. Deposit account number:

04-1679

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9. Signature.

Gary R. Maze

Name of Person Signing

Signature

07/17/2002

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:

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Washington, D.C. 20231

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PATENT
REEL: 013136 FRAME: 0528

ASSIGNMENT FOR UNITED STATES PATENT APPLICATION

WHEREAS: **John M. J. Madey**
3033 Lowery Avenue, #121
Honolulu, HI 96822
United States

Eric Brent Szarmes
3033 Lowery Avenue, #114
Honolulu, HI 96822
United States

Orion Crissafulli
545 Ulumawao Street
Kailua, HI 96734
United States

(hereinafter referred to as ASSIGNOR), has invented and owns a certain invention entitled: **Phase Displacement Free-Electron Laser**, for which U.S. application for Letters Patent was filed on **February 22, 2002**, and issued application number **10/081,577**,

WHEREAS: **University of Hawaii**
2800 Woodlawn Drive, Suite 280
Honolulu, Hawaii 96822
United States of America
(a state supported institution of higher learning)

(hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to said invention, in the United States and its territorial possessions and in all foreign countries, and to all Letters Patent or similar legal protection, in the United States and its territorial possessions and in any and all foreign countries, to be obtained for said invention by said application

or any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I have hereunto set hand and seal this 24th day of April, 2002.



John M. J. Madey

Eric Brent Szarmes

Orion Crissafulli

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