

111111 312-48
FORM 1 TO-1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)

RECORDATION FORM COVER SHEET
PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

RECEIVED

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or non-reproducible copy.

1. Name of conveying party(ies):

Radhakrishnan P. Iyer

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

2. Name and address of receiving party(ies):

Name: Hybridon, Inc.

Internal Address:

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Street Address: 620 Memorial Drive

City: Cambridge State MA ZIP 02139

Execution Date: February 10, 1998

Additional name(s) & address 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)

08/920.087

B. Patent No.(s)

06-01-1998



Additional numbers attached? ☐ Yes ☒ No

100723453

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

Name: Wayne A. Keown, Ph.D.

Internal Address:

HALE AND DORR LLP

Street Address: 60 State Street

City: Boston State MA ZIP 02109

6. Total number of applications and registrations involved

1

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

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit Account Number:

08-0219

(Attach duplicate copy of this page if paying by deposit account)

03/18/1998 DCOATES 00000005 DAN:080219 08920087

File Ref: 00000155 DAN: 080219 08920087

01 FC:581 40.00 CH

DO NOT USE THIS SPACE

9. 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.

Wayne A. Keown, Ph.D.

March 9, 1998

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks, Box R-1100

Washington, D.C. 20231

REF: 9194 FRAME: 0711

ASSIGNMENT

WHEREAS, I, Radhakrishnan P. Iyer, being a citizen of India, and residing at 34 Shrewsbury Green Drive, Shrewsbury, MA 01545, United States of America, am the inventor of certain new and useful inventions and discoveries, for which we have made an application for a Letters Patent entitled "IMPROVED REAGENTS AND PROCESS FOR SYNTHESIS OF OLIGONUCLEOTIDES CONTAINING PHOSPHORODITHIOATE INTERNUCLEOSIDE LINKAGES," also identified as Attorney Docket No. 475.08.641, the specification of which was filed with the United States Patent and Trademark Office on August 26, 1997, and assigned Serial No. 08/920,087; and

WHEREAS, Hybridon, Inc., whose address is 260 Memorial Drive, Cambridge, MA 02139, United States of America, which, 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 and in consideration of my employment by ASSIGNEE and other valuable consideration furnished by ASSIGNEE to me, receipt and sufficiency of which I hereby acknowledge, I hereby, without reservations:

1. Assign, transfer, and convey to ASSIGNEE the entire right, title, and interest in and to said inventions and discoveries, said United States Patent Application, any and all other applications for Letters Patent(s) on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part, reexamination and convention applications based in whole, or in part, upon said inventions or discoveries, or upon said applications, and any and all Letters Patent(s), reissues, and extensions of Letters Patent(s) 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(s);

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 Patent(s) to ASSIGNEE, as assignee of the entire right, title, and interest therein or otherwise as ASSIGNEE may direct;

5. Warrant that I 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 I have good right to assign the same to ASSIGNEE without encumbrance;

6. Bind my heirs, legal representatives, and assigns, as well as myself, to do, upon ASSIGNEE's request and at ASSIGNEE's expense, but without additional consideration to either us or them, all acts reasonably serving to assure that said inventions and discoveries, said patent applications, and said Letters Patent(s) shall be held and enjoyed by ASSIGNEE as fully and entirely as the same could have been held and enjoyed by me, my 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 my 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, I have hereunto set my hand and seal.

DATE: 3/3/98


Radhakrishnan P. Iyer

WITNESSED BY:


John E. O'Brien
Name
620 Memorial Drive
Cambridge, MA
Address

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Radhakrishnan P. Iyer
Serial No.: 08/920,087
Filing Date: August 26, 1997
Docket Number: 475.08.641
Title: IMPROVED REAGENTS AND PROCESS FOR
SYNTHESIS OF OLIGONUCLEOTIDES CONTAINING
PHOSPHORODITHIOATE INTERNUCLEOSIDE
LINKAGES

BOX ASSIGNMENTS

Assistant Commissioner For Patents
Washington, D.C. 20231

RESPONSE TO NOTICE OF COVER LETTER RECEIVED WITHOUT ASSIGNMENT

Dear Sir:

In Response to the Notice of Cover Letter Received Without Assignment mailed on April 28, 1998 (copy enclosed) in the above-referenced patent application, applicant herewith submits the following documents:

1. A copy of the Transmittal Letter of Assignment and return postcard mailed on March 9, 1998;
2. A certified copy of the original Assignment from the inventor, Radhakrishnan P. Iyer, to Hybridon, Inc. mailed on March 9, 1998;
3. The original PTO Form 1595 mailed on March 9, 1998; and
4. Return Postcard.

U.S.S.N. 08/920,087

Page 2

If there are any questions, please call the undersigned at the telephone number indicated below.

Respectfully submitted,

HALE AND DORR LLP



Ann-Louise Kerner, Ph.D.

Registration No. 33, 523 for

Wayne A. Keown, Ph.D.

Registration No. 33,923

Attorney for Applicant

60 State Street
Boston, MA 02109
Tel. (617) 526-6000
Fax. (617) 426-5000

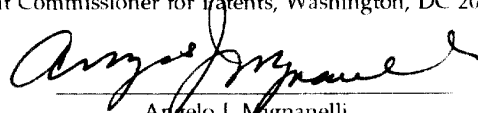
Date: May 14, 1998

CERTIFICATE OF MAILING (37 C.F.R. § 1.8(1))

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to , **BOX ASSIGNMENTS**, Assistant Commissioner for Patents, Washington, DC 20231 on the date indicated below.

Date: _____

5/14/98



Angelo J. Mignanelli



**UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER
OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

Date: April 28, 1998

Hale And Dorr LLP
Wayne A. Keown, PH.D.
60 State Street
Boston, MA 02109

COPY

NOTICE OF COVER LETTER RECEIVED WITHOUT ASSIGNMENT ATTACHED

Thank you for your request to record a document with the Patent and Trademark Office. However, the attached cover letter was received in the U.S. Patent and Trademark Office, Assignment Branch without an assignment document attached. We are returning the cover letter to you.



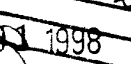
Please resubmit the original cover letter along with a legible original assignment, or certified copy. If you have already received your assignment back recorded or wish not to record the assignment at this time please disregard this notice and keep the cover letter for your records. If you have any questions, you may contact the undersigned at (703) 308-9723.

The assignment fees are as follows:

Patent Assignment (for each property)	\$40.00
Trademark Assignment (including one property)	\$40.00
(each additional property)	\$25.00

Sincerely,


Margaret LaSalle
Paralegal Specialist

Reviewed By 
Docketed By 
Received By 
MAY 1 1998
PATENT AND TRADEMARK OFFICE
UNITED STATES DEPARTMENT OF COMMERCE

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Radhakrishnan P. Iyer

Serial No.: 08/920,087

Filing Date: August 26, 1997

Docket Number: 475.08.641

Title: IMPROVED REAGENTS AND PROCESS FOR
SYNTHESIS OF OLIGONUCLEOTIDES CONTAINING
PHOSPHORODITHIOATE INTERNUCLEOSIDE
LINKAGES

COPY

BOX ASSIGNMENTS

Assistant Commissioner For Patents
Washington, D.C. 20231

TRANSMITTAL LETTER OF ASSIGNMENT

Dear Sir:

Enclosed herewith for filing in the above-identified patent application are the following documents:

1. Assignment;
2. Form PTO-1595 (Recordation Form Cover Sheet); and
3. Return Postcard.


PATENT
REEL: 9194 FRAME: 0718

U.S.S.N. 08/920,087
Page 2

COPY

If there are any questions, please call the undersigned at the telephone number indicated below.

Respectfully submitted,


Wayne A. Keown, Ph.D.
Registration No. 33,923
Attorney for Applicants

HALE AND DORR LLP
60 State Street
Boston, MA 02109
Tel. (617) 526-6000
Fax. (617) 426-5000

Date: March 9, 1998

CERTIFICATE OF MAILING (37 C.F.R. § 1.8(1))

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to **BOX ASSIGNMENTS**, Commissioner of Patents and Trademarks, Washington, DC 20231 on the date indicated below.

Date: 3/9/98


Angelo J. Mignanelli

COPY

Title: IMPROVED REAGENTS AND PROCESS FOR SYNTHESIS OF . . .

Serial No. 08/920,087

Applicant Iyer

In the above matter, the following have been received by the US Patent and Trademark Office on the date stamped hereon.

- | | |
|--|--|
| <input type="checkbox"/> Express Mail Label No. _____ | <input checked="" type="checkbox"/> Certificate of Mailing under 37 CFR 1.8(a) |
| <input type="checkbox"/> Application incl. _____ pages (____ Design) | <input type="checkbox"/> Response to Office Action/Restriction Req. |
| ____ pp. of specification | <input type="checkbox"/> Petition for ____ month extension of time |
| ____ pp. of claims (# of claims - ____) | <input checked="" type="checkbox"/> Assignment and Cover Sheet |
| ____ pp. of abstract | <input type="checkbox"/> Amendment (<input type="checkbox"/> Preliminary; <input type="checkbox"/> After Final) |
| ____ sheets of drawings; Figs. _____ | <input type="checkbox"/> Notice of Appeal |
| <input type="checkbox"/> formal <input type="checkbox"/> informal | <input type="checkbox"/> Appellant's Brief (triplicate) (<input type="checkbox"/> Reply Brief) |
| <input type="checkbox"/> Provisional Application Cover Sheet | <input type="checkbox"/> Letter to Chief Draftsperson |
| <input type="checkbox"/> Declaration / Power of Attorney (____ Unsigned) | <input type="checkbox"/> Issue Fee / <input type="checkbox"/> Maintenance Fee Transmittal |
| <input type="checkbox"/> Verified Statement Claiming Small Entity Status | <input type="checkbox"/> Sequence listing; <input type="checkbox"/> Diskette |
| <input type="checkbox"/> Copy of Notice to File Missing Parts | <input type="checkbox"/> Transmittal Letter |
| <input type="checkbox"/> Request for filing CPA; 37 CFR 53(d) | <input type="checkbox"/> Check for \$ _____; check # _____ |
| <input type="checkbox"/> IDS, PTO-1449, and ____ references (Supp. ____) | <input type="checkbox"/> Deposit Account Authorization \$ _____ |

☐ other: _____

☐ other: 3/9/98 475.08.641 AJM

Mailing Date: _____ Docket No. _____ Atty/paralegal/secy: _____

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

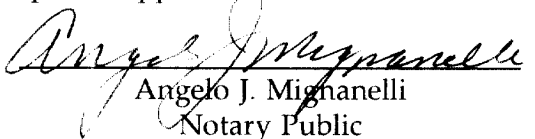
In re Application of: Radhakrishnan P. Iyer
Serial No.: 08/920,087
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BOX ASSIGNMENTS

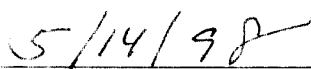
Assistant Commissioner For Patents
Washington, D.C. 20231

CERTIFICATION

I, Angelo J. Mignanelli, a public notary in and for the Commonwealth of Massachusetts, hereby certify and attest that the attached document is a true and exact copy of the Assignment executed on March 3, 1998 by the inventor, Radhakrishnan P. Iyer, from said inventor to Hybridon Incorporated for the above-referenced United States patent application.


Angelo J. Mignanelli
Notary Public

Commonwealth of Massachusetts



Date

My Commission Expires May 22, 2003

Seal

PATENT

RECORDED: 03/12/1998

REEL: 9194 FRAME: 0721