

11-22-2000

Docket No. 01339.0004.00US01

To the Honorable Commissioner of Patents and Trademarks

101524142

original documents or copy thereof.

1. Name of conveying party(ies):

Michael L. Roukes; Franklin G. Monzon; and Michael J. Murphy

Additional name(s) of conveying party(ies) attached?

☐ Yes ☒ No

2. Name and address of receiving party:

Name: California Institute of Technology

Internal Address: 1200 E. California Blvd., Mail Code 204-85

City: Pasadena State: CA Zip: 91125

Street Address: Same as above

City: State: Zip:

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

3. Nature of conveyance:

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

Execution Date: 10/24/00; 10/4/00; 10/10/00

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): 09/612,828

B. Patent No(s):

Additional numbers attached? ☐ Yes ☒ No

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

Name: Robert C. Laurenson

Internal Address: HOWREY SIMON ARNOLD & WHITE, LLP

Box No. 34

1299 Pennsylvania Avenue, N.W.

Washington, D.C. 20004-2402

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41):

\$ 40.00

☒ The Commissioner is authorized to charge our Deposit Account No. 08-3038, Referencing Docket No. 01339.0004.00US01☒ Charge this Deposit Account if any additional fee is required

8. Deposit Account Number: 08-3038

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.

Robert C. Laurenson, Reg No. 34,206

Date: October 27, 2000

Total number of pages including cover sheet: 6

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion

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

11/02/2000 GTEFFERA 00000012 083038 09612828 Commissioner of Patents and Trademarks

04 FC:581 40.00 CH

Box Assignments
Washington, D.C. 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503

ASSIGNMENT

WHEREAS, we, **MICHAEL L. ROUKES**, a citizen of the United States, residing at 1420 San Pasqual, Pasadena, CA 91106, **FRANKLIN G. MONZON**, a citizen of the United States, residing at 14800 NW Cornell Road, No. 5F, OR 97229, and **MICHAEL J. MURPHY**, a citizen of the United States, residing at 12 Lincoln Mill Road, Mullica, NJ 08062, have made new and useful improvements in **LOCAL HALL DISPLACEMENT TRANSDUCER FOR MEMS AND NEMS**, for which an application for Letters Patent of the United States was filed on July 7, 2000, as Application No. 09/612,828.

WHEREAS, **CALIFORNIA INSTITUTE OF TECHNOLOGY**, having a place of business at **1200 East California Boulevard, Mail Code 201-85, Pasadena, CA 91125**, and who, together with its successors and assigns ("Assignee") is desirous of acquiring the title, rights, benefits, and privileges hereinafter recited.

NOW, THEREFORE, for 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 the entire right, title, and interest in and to said application for Letters Patent of the United States, including all claims, if any, for infringement prior to the date of this assignment, the inventions and discoveries described therein, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, and Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, 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 for any or all of said inventions and discoveries in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention 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 to issue or transfer all said Letters Patent 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.

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 the said inventions and discoveries, the said patent applications, and the said Letters Patent 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; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; to furnish Assignee with any and all documents, photographs, models, samples, and other physical exhibits in our control or in the control of our heirs, legal representatives, or assigns which may be useful for establishing the facts of our conception, disclosures, and reduction to practice of said inventions and discoveries; and to testify as to the same in any interference or other litigation.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 24th day of October, 2000.

Michael L. Roukes
Michael L. Roukes

STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

SS:

On this _____ day of _____, 2000, before me personally appeared **Michael L. Roukes**, to me known and known to me to be the individual described in and who executed the foregoing instrument, and who duly acknowledged to me to have executed the foregoing instrument, and who duly acknowledged to me to have executed the same for the purpose therein set forth.

(SEAL)

NOTARY PUBLIC

My Commission Expires: Feb. 27, 2002

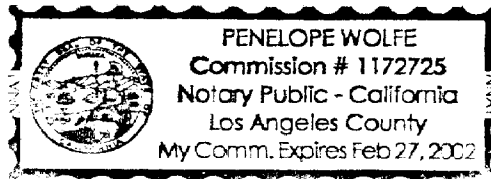
STATE OF CALIFORNIA

COUNTY OF LOS ANGELES

On October 24, 2000, before me, Penelope Wolfe, Notary Public, personally appeared Michael L. Roukes, proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Penelope Wolfe
Signature of Notary Public



IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 4th day of
October, 2000.


Franklin G. Monzon

STATE OF OREGON

COUNTY OF Washington

SS: 521-59-6024

On this 4th day of October, 2000, before me personally appeared
Franklin G. Monzon, to me known and known to me to be the individual described in and
who executed the foregoing instrument, and who duly acknowledged to me to have executed
the foregoing instrument, and who duly acknowledged to me to have executed the same for the
purpose therein set forth.

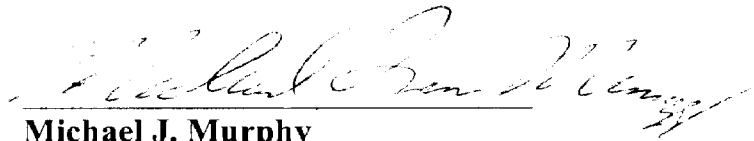
(SEAL)




NOTARY PUBLIC

My Commission Expires: Jan 20, 2004

IN TESTIMONY WHEREOF I have hereunto set my hand and seal this 10th day of
October, 2000, at Cambridge, England.


Michael J. Murphy