| U.S. DEPARTMENT OF COMMERCE | | | |
|---|--|--|--|
| DECORDATION FORM COVER SHEET | | | |
| RECORDATION FORM COVER SHEET Patent and Trademark Office | | | |
| PATENTS O | | | |
| | se record the attached original documents or copy thereof. | | |
| Name of conveying party(ies): HOWARD HUGHES MEDICAL INSTITUTE | Name and address of receiving party(ies): | | |
| MOWARD HUGHES MEDICAL INSTITUTE | Name: THE REGENTS OF THE UNIVERSITY OF CALIFORNIA | | |
| ☐ Individual(s) ☐ Association | Address: 1111 FRANKLIN STREET, 5 TH FLOOR | | |
| ☐ General Partnership ☐ Limited Partnership | Çity: OAKLAND State: CALJFORNIA | | |
| ☐ Corporation-State ☐ Other | Zip Code: 94607-5200 USA | | |
| | | | |
| Additional name(s) of conveying party(ies) attached? □ Yes ■ No | | | |
| 3. Nature of conveyance: | Additional name(s) & address(es) attached? ☐ Yes ■ No | | |
| ■ Assignment □ Mcrgcr | | | |
| Sccurity Agreement | | | |
| Other: | | | |
| | | | |
| Execution Date: MARCH 22, 2005 | <u> </u> | | |
| 4. Application number(s) or patent number(s): 09/865,291 | | | |
| 16-bis decreased in being Electricity and constitution the arrange | tion data of the application is: | | |
| If this document is being filed with a new application, the execu | non date of the application is. | | |
| A. Patent Application No.(s): | B. Patent No.(s): | | |
| | | | |
| Additional numbers attached? ☐ Yes ■ No | | | |
| 5. Name and address of party to whom correspondence concerning | 6. Total number of applications and patents involved: 1 | | |
| Document should be mailed: | 7 T-4-14 (27 O.E.D. 8.2.41). | | |
| YAMECA FOV | 7. Total fee (37 C.F.R. § 3.41): | | |
| JAMES A. FOX Heller Ehrman, LLP | □ Enclosed | | |
| 275 Middlefield Road | Authorized to be charged to deposit account, referencing | | |
| Menlo Park, California 94025-3506 | Attorney Docket No. 39754-0891 CPC1CP1 | | |
| | 8. Deposit account number: 08-1641 | | |
| The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §1-21 that ma | y be required by this paper, or to credit any overpayment to Deposit Account No. 08-1641 | | |
| 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. | $\bigcap A \subset \mathcal{E}$ | | |
| Name: JAMES A. FOX (Reg. No. 38,455) | Date: MAY 12, 2005 | | |
| signanue | | | |
| Total number of pages comprising cover sheet, attachments and document: 2 | | | |
| | | | |
| Mail documents to be recorded with required cover sheet information to: | | | |
| Mail Stop Assignment Recordation Services | | | |
| Director of the US Patent & Trademark Office PO Box 1450 | | | |
| | sox 1450 rginia 22313-1450 | | |

PATENT REEL: 016248 FRAME: 0646 Mar 23 05 09:4**9**a

HHMI, UCSD TsienLab

858 534-5270

p. 1

ASSIGNMENT

U.C. Case No. 2001-448-1

WHEREAS, I am acting as the agent for Howard Hughes Medical Institute ("HHMI") having an address at 4000 Jones Bridge Road, Chevy Chase, Maryland 20815 in conveying all right, title and interest of HHMI;

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR,

Roger Y. Tsien

hereby sell, assign and transfer to ASSIGNEE, The Regents of the University of California, a California Corporation, having its statewide administrative offices located 1111 Franklin Street, 5th Floor, Oakland, CA 94607-5200, and the successors, assigns and legal representatives of the ASSIGNEE all of their right, title and interest for the United States and its territorial possessions and in all foreign countries in and to, any and all improvements which are disclosed in the invention entitled:

| invention entitled: | | | |
|--|---|--|---|
| EMISSION RATIOMETRIC IN | DICATORS OF PHOSPHO | <u>RYLATION</u> | |
| and which is found in | | | - , |
| (a) U.S. provisional applic | ation filed herewith | | |
| (b) U.S. patent application | n filed herewith | | |
| (c) X U.S. application serial | до09/865,291 | , filed on | May 24, 2001 |
| (d) U.S. Patent No.: | | , issued | |
| and any legal equivalent thereof in Patent to be obtained for said invextension, conversion to 35 USC 1: Patent and all rights under all Interrese. ASSIGNOR hereby covenants that into which would conflict with this | ention by the above applicate 11(a) or substitute thereof, and national Conventions for the Figure assignment, sale, agreement | on or any commutation of any reissue, reexaming rotection of Industrial | nation or extension of said Letters Property; |
| ASSIGNOR further covenants that documents relating to said invention ASSIGNOR and will testify as to promptly execute and deliver to a required to apply for, obtain, main equivalents thereof which may be authorized and requested by the conumber of said application when of | on and said Letters Patent and to the same in any interference ASSIGNEE or its legal represtain, issue or enforce said appearance of this assignment of this assignment of this assignment. | n legar equivations as ace, litigation, or pro- escentative any and all dication, said inventio- ary out the purposes to to insert into this assi | ceeding relating thereto and will papers, instruments or affidavits in and said Letters Patent and said hereof. An attorney of record is ignment the filing date and serial |
| AND the <u>ASSIGNOR</u> requests the States and any reissue or extension | e Commissioner of Patents are thereof to the ASSIGNEE, T | d Trademarks to issue he Regents of the Univ | e said Letters Patent of the United versity of California. |
| executed this | | Signature of Inventor | 4/7 |

PATENT

SV 2109344 V1

AND OF SALES OF SALES

RECORDED: 05/17/2005

22 day of March, 2005