

Client Code: HITACHI.064NP

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|---|---|
| <p>1. Name of conveying party(ies): List using letters or numbers for multiple parties: Taku Murakami</p> <p>Additional name(s) of conveying party(ies) attached? () Yes (X) No</p> | <p>2. Name and address of receiving party(ies):</p> <p>1) HITACHI CHEMICAL RESEARCH CENTER, INC. 1003 Health Sciences Road West Irvine, California, USA 92617</p> <p>2) HITACHI CHEMICAL CO., LTD. Shinjuku-Mitsui Building, P.O. Box 233 1-1 Nishishinjuku 2-chome, Shinjuku-ku, Tokyo 163-0449 Japan</p> <p>Additional name(s) of receiving party(ies) attached? () Yes (X) No</p> |
| <p>3. Nature of conveyance: (X) Assignment () Security Agreement () Merger () Change of Name () Other: Execution Date: (List as in section 1 if multiple signatures) March 22, 2005</p> | <p>4. US or PCT Application number(s) or US Patent number(s): (X) Patent Application No.: 10/590,832 Filing Date: August 28, 2006 (U.S. National Phase of PCT/US2005/005955, Filed February 28, 2005)</p> <p>Additional numbers attached? () Yes (X) No</p> |
| <p>5. Party to whom correspondence concerning document should be mailed: Customer No. 20,995 Address: Knobbe, Martens, Olson & Bear, LLP 2040 Main Street, 14th Floor Irvine, CA 92614 Return Fax: (949) 760-9502 Attorney's Docket No.: HITACHI 064NP</p> | <p>6. Total number of applications and patents involved: 1</p> |
| <p>7. Total fee (37 CFR 1.21(h)): \$40 (X) Authorized to be charged to deposit account</p> | <p>8. Deposit account number: 11-1410 Please charge this account for any additional fees which may be required, or credit any overpayment to this account.</p> |
| <p>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.</p> <p><u>Karoline A. Delaney</u> Name of Person Signing</p> <p><u><i>Karoline A. Delaney</i></u> Signature</p> <p><u>7/16/09</u> Date</p> <p>44,058 Registration No.</p> <p>Total number of pages including cover sheet, attachments and document: 2</p> | |

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International Application No.: PCT/US2005/005955
International Filing Date: February 28, 2005

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Client Code: HITACHI.064VPC

ASSIGNMENT

WHEREAS, I, Taku Murakami, a Japanese citizen, residing at 280 Las Palmas, Irvine, California 92602, United States of America, have invented certain new and useful improvements in a MULTIPLEX DETECTION PROBES for which U.S. provisional application No. 60/548,635 was filed in the United States Patent and Trademark Office on February 27, 2004, and for which a non-provisional application was filed under the Patent Cooperation Treaty ("PCT") on February 28, 2005, and assigned International Application No. PCT/US2005/005955 (I authorize the attorneys to fill in the Application No. after it is assigned).

AND WHEREAS, HITACHI CHEMICAL RESEARCH CENTER, INC., a California Corporation, with its principal place of business at 1003 Health Sciences Road West, Irvine, California 92617, United States of America, and HITACHI CHEMICAL CO., LTD., a Japanese Corporation with its principal place of business at Shinjuku-Mitsui Building, P.O. Box 233, 1-1 Nishishinjuku 2-chome, Shinjuku-ku, Tokyo, 163-0449, Japan (hereinafter jointly referred to as "ASSIGNEES"), desire to jointly acquire the entire right, title, and interest in and to the said improvements and the said Applications:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEES, their successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said applications; and any other provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEES, their successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I DO HEREBY sell, assign, transfer, and convey to ASSIGNEES, their successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEES, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said Letters Patent before or after issuance.

AND I HEREBY covenant and agree that I will communicate to the said ASSIGNEES, their successors, legal representatives and assigns, any facts known to me respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEES, their successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 22 day of March, 2005.

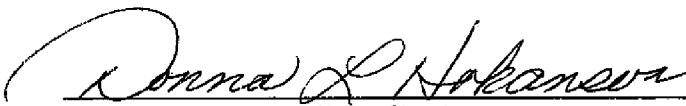

Taku Murakami

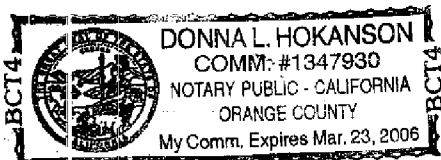
STATE OF CALIFORNIA
COUNTY OF ORANGE } ss.

On 3-22-2005 before me, DONNA L. HOKANSON ^{NOTARY} ~~PUBLIC~~ personally appeared Taku Murakami personally known to me (or 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 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.

[SEAL]


Notary Signature



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