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To the Director of the U.S. Patent

103449368

1 documents or the new address(es) below.

**1. Name of conveying party(ies)**

(A) Linda H. Malkas; and  
(B) Robert J. Hickey;

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

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) January 27, 2006

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

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

Name: csKeys, LLC

Internal Address: \_\_\_\_\_

Street Address: 6256 Lakeland Boulevard

City: Indianapolis

State: Indiana

Country: US Zip: 46234

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

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

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

10/083,576  
10/238,871

B. Patent No.(s)

6,093,543  
6,063,575

Additional numbers attached? ☐ Yes ☒ No

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

Name: Whiteford, Taylor & Preston, LLC

Internal Address: R. Christopher Rueppell

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**6. Total number of applications and patents involved: 4**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 160.00**

- ☐ Authorized to be charged by credit card  
☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 50-1479

Authorized User Name R. Christopher Rueppell

**9. Signature:**

September 26, 2007

Date

R. Christopher Rueppell  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 5

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

09/28/2007 DBYRNE 00000018 501479 10083576

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**PATENT**  
**REEL: 019910 FRAME: 0880**

## ASSIGNMENT

WHEREAS, Dr. Linda H. Malkas and Dr. Robert J. Hickey, both citizens of the United States, having a mailing address of Indiana University Cancer Research Institute, Bldg. R4, Room 170, 1044 West Walnut Street, Indianapolis, Indiana 46202-5254 (hereinafter "ASSIGNOR"), are co-inventors of the Invention set forth in Appendix A.

WHEREAS csKeys, Inc., LLC, a corporation organized under the laws of the State of Indiana, having its address at 6256 Lakeland Blvd., Indianapolis, Indiana 46234 (hereinafter "ASSIGNEE"), desires to acquire ASSIGNOR's entire right, title and interest, now held by and which vests to the ASSIGNOR as the assignee of any right, title, and interest of any and all other co-inventors in any and all of the Invention, in and to the Invention, any Applications, and any letters patent in regard to the Invention listed above that may be granted therefor in the United States of America and all other countries throughout the world;

WHEREAS, the above named ASSIGNOR, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, hereby sell, transfer, assign, and set over to the ASSIGNEE, and to their successors, assigns, and legal representatives, the entire right, title and interest, now held by and which vests to the ASSIGNOR as the assignee of any right, title, and interest of any and all other co-inventors in any and all of the Invention, in and to the Invention, Application, and any letters patent, for the entire world, including (without limitation) the United States and all other countries, and to all Letters Patent, divisions, continuations, continuations-in-part, substitutions, reissues, reexaminations, and extensions to be obtained therefor, and in and to all rights of priority resulting from the filing of the Application, together with the right to sue and recover for, and the right to profits or damages due or accrued arising out of or in connection with, any and all past, present or future infringement of the Invention. The ASSIGNOR agrees to cooperate with the ASSIGNEE in obtaining and sustaining any or all Letters Patent, but at the expense of the ASSIGNEE. The ASSIGNOR further agrees to assign any and all rights arising from the Invention, Application, and/or letters patent issued therefrom which ASSIGNOR may obtain at any time in the future. The Commissioner of Patents is hereby authorized and requested to issue any and all Letters Patent solely, in accordance with this Assignment, to the ASSIGNEE, its successors, legal representatives and assigns as the ASSIGNEE of the entire rights, title and interest therein.

WHEREAS, ASSIGNOR further agrees to communicate to the ASSIGNEE or its representatives any facts known to the ASSIGNOR respecting the Invention and at the expense of the ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all division, continuation, continuation-in-part, substitution, reissue, reexamination, and extension applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to the ASSIGNEE, make all rightful oaths and generally to do everything necessary or desirable to aid the ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for the Invention in the United States and in any and all foreign countries.

WHEREAS, the ASSIGNOR has executed this Assignment as an instrument on the date written below.

1/27/06  
Date

Linda H. Malkas  
Dr. Linda H. Malkas

1/27/06  
Date

Robert J. Hickey  
Dr. Robert J. Hickey

APPENDIX A

- 1) United States Patent No. 6,093,543 entitled "Method For Detecting The Presence Of Malignant Cells Using A Multi-Protein DNA Replication Complex", issued on July 25, 2000;
- 2) United States Patent No. 6,063,575 entitled "Assay For Measuring The Activity And Fidelity Of DNA Replication And Kit Therefor", issued on May 16, 2000;
- 3) United States Patent Application entitled "Altered DNA Synthesome Components As Biomarkers For Malignancy" filed on September 11, 2002 and assigned Serial Number 10/238,871;
- 4) United States Patent Application entitled "Method For Purifying Cancer-Specific Proliferating Cell Nuclear Antigen" filed on February 27, 2002 and assigned Serial Number 10/083,576;
- 5) United States Patent Application entitled "Altered DNA Synthesome Components As Biomarkers For Malignancy" filed on May 22, 2000 and assigned Serial Number 09/508,460;
- 6) United States Provisional Patent Application entitled "Altered DNA Synthesome Components In Body Fluid As Biomarkers For Malignancy" filed on May 12, 1998 and assigned Serial Number 60/085,200;
- 7) United States Provisional Patent Application entitled "Altered DNA Synthesome Components As Biomarkers For Malignancy" filed on September 29, 1997 and assigned Serial Number 60/060,249;
- 8) United States Provisional Patent Application entitled "Human Breast Cell DNA Synthesome Purification From Tumor Tissue And Cell Culture" filed on April 11, 1997 and assigned Serial Number 60/043,895;
- 9) United States Provisional Patent Application entitled "Assay For Measuring The Activity And Fidelity Of DNA Replication And Kit Therefor" filed on March 21, 1997 and assigned Serial Number 60/039,381;
- 10) PCT Application entitled "Altered DNA Synthesome Components as Biomarkers For Malignancy" filed on September 29, 1998 and assigned International Application Number PCT/US1998/20444;
- 11) Australian Patent Number 750082 entitled "Altered DNA Synthesome Components as Biomarkers For Malignancy" filed on September 29, 1998;

12) Canadian Patent Application entitled "Altered DNA Synthesome Components as Biomarkers For Malignancy" filed on September 29, 1998 and assigned Application No. 2,305,625;

13) European Patent Application entitled "Altered DNA Synthesome Components as Biomarkers For Malignancy" filed on September 29, 1998 and assigned European Application No. 98 950 772.8;

14) Japanese Patent Application entitled "Altered DNA Synthesome Components as Biomarkers For Malignancy" filed on September 29, 1998 and assigned Application No. 2000 - 513602; and

15) Korean Patent Application entitled "Altered DNA Synthesome Components as Biomarkers For Malignancy" filed on September 29, 1998 (Korean Filing Date 3/29/2000) and assigned Application No. 2000 - 7003417.