# PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT3566651

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|---|---|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

**CONVEYING PARTY DATA**

| Name | Execution Date |
|---|---|
| DATA RECOGNITION CORPORATION | 09/21/2015 |

**RECEIVING PARTY DATA**

| | |
|---|---|
| **Name:** | MCGRAW-HILL SCHOOL EDUCATION HOLDINGS LLC |
| **Street Address:** | TWO PENN PLAZA |
| **City:** | NEW YORK |
| **State/Country:** | NEW YORK |
| **Postal Code:** | 10121 |

**PROPERTY NUMBERS Total: 24**

| Property Type | Number |
|---|---|
| **Patent Number:** | 7573616 |
| **Patent Number:** | 7417774 |
| **Patent Number:** | 6577846 |
| **Application Number:** | 12142468 |
| **Patent Number:** | 7911660 |
| **Application Number:** | 12049001 |
| **Patent Number:** | 7606421 |
| **Patent Number:** | 6999954 |
| **Patent Number:** | 7149468 |
| **Patent Number:** | 8128414 |
| **Patent Number:** | 7980855 |
| **Patent Number:** | 7316347 |
| **Patent Number:** | 7200581 |
| **Patent Number:** | 7865131 |
| **Patent Number:** | 8526766 |
| **Application Number:** | 11842184 |
| **Application Number:** | 13546542 |
| **Application Number:** | 13041612 |
| **Patent Number:** | 6175841 |
| **Patent Number:** | 6042384 |

| Property Type | Number |
|---|---|
| Application Number: | 14212944 |
| Patent Number: | 9019570 |
| Application Number: | 61942994 |
| Application Number: | 14618048 |

**CORRESPONDENCE DATA**

**Fax Number:** (202)783-6031

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| | |
|---|---|
| **ATTORNEY DOCKET NUMBER:** | 4419-124 AND 4419-000 |
| **NAME OF SUBMITTER:** | RICHARD WYDEVEN |
| **SIGNATURE:** | /Richard Wydeven/ |
| **DATE SIGNED:** | 10/13/2015 |

**Total Attachments: 4**
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# ASSIGNMENT

WHEREAS, DATA RECOGNITION CORPORATION, a Minnesota corporation having offices at 13490 Bass Lake Road, Maple Grove, MN 55311 ("ASSIGNOR"), owns, by assignment, all right, title, and interest in the U.S. Patents and Patent Applications listed on EXHIBIT A of this document (collectively the "Patents"), and any invention(s) claimed therein; and

WHEREAS MCGRAW-HILL SCHOOL EDUCATION HOLDINGS LLC, a Delaware limited liability company with an address of Two Penn Plaza, New York, NY 10121 ("ASSIGNEE"), desires to own ASSIGNOR'S entire right, title, and interest in and to the Patents.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

1.      ASSIGNOR hereby sells, assigns, transfers, and sets over to ASSIGNEE, its lawful successors and assigns, ASSIGNOR'S entire right, title, and interest in and to the Patents, the invention(s) claimed therein, any other patent application(s) directed to the invention(s), and all Letters Patent of the United States that may be granted thereon, and all continuations, reissues, reexaminations, and extensions thereof; and all rights to claim priority on the basis of such application(s), and all applications for Letters Patent that may be filed for the invention(s) in any foreign country and all Letters Patent that may be granted on the invention(s) in any foreign country, and all extensions, renewals, and reissues thereof;

2.      ASSIGNOR hereby grants to ASSIGNEE the right to recover damages and all other relief for all infringements of the Patents that have occurred prior to the date of this Assignment with the right to sue for and collect the same, for ASSIGNEE'S own use and enjoyment and for the use and enjoyment of its successors, assigns or other legal representatives, free and clear of all liens, claims, charges, security interests, and other encumbrances;

3.      ASSIGNOR covenants that ASSIGNOR has the full right to convey the interest assigned by this Assignment;

4.      ASSIGNOR hereby further covenants and agrees that ASSIGNOR, through its officers and employees, will, without further consideration, communicate with ASSIGNEE, its successors and assigns, any facts known to ASSIGNOR and its officers, employees, and agents respecting the Patents and invention(s) and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to the Patents and invention(s) in said ASSIGNEE, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths, and generally do everything possible to aid ASSIGNEE, its successors and assigns, to obtain and enforce proper patent protection for the invention(s) in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by ASSIGNEE, its successors and assigns.

IN TESTIMONY WHEREOF, each party has caused its authorized representative to execute this Assignment.

ASSIGNOR:                             ASSIGNEE:

DATA RECOGNITION CORPORATION          MCGRAW-HILL SCHOOL EDUCATION HOLDINGS LLC

By _Susan Engelstad_  By _____

Date: __09.21.2015__    Date: __9-23-2015__

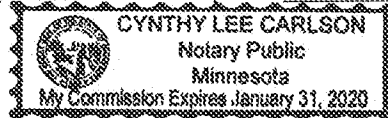STATE OF _Minnesota_ )

COUNTY OF _Hennepin_ )

On this 21st day of _September_, 2015, before me personally appeared _Susan S Engeleiter_, 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 capacities, and that by his signature on the instrument the entities upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

_Cynthy Lee Carlson_

NOTARY PUBLIC

My commission expires: _Jan 31, 2020_

STATE OF _New York_ )

COUNTY OF _New York_ )

On this 22nd day of _September_, 2015, before me personally appeared _Patrick Milano_, 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 capacities, and that by his signature on the instrument the entities upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal

My commission expires: _January 9, 2018_

NOTARY PUBLIC

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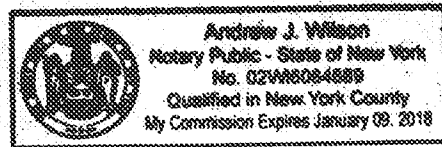
# EXHIBIT A

| TITLE | Patent or Application No. | Filing Date | Issue or Publication Date |
|---|---|---|---|
| ENHANCED DATA CAPTURE FROM IMAGED DOCUMENTS | 7573616 | 02-11-2003 | 08-11-2009 |
| METHOD AND APPARATUS FOR SELECTIVE PROCESSING OF CAPTURED IMAGES | 7417774 | 02-11-2003 | 08-26-2008 |
| METHODS FOR RANGE FINDING OF OPEN-ENDED ASSESSMENTS | 6577846 | 02-12-2001 | 06-10-2003 |
| IMAGE MANIPULATION OF DIGITIZED IMAGES OF DOCUMENTS | 2009/0015875A1 | 06-19-2008 | 01-15-2009 |
| METHOD AND APPARATUS FOR DATA CAPTURE FROM IMAGED DOCUMENTS | 7911660 | 06-18-2008 | 03-22-2011 |
| METHOD AND SYSTEM FOR REDUNDANT DATA CAPTURE FROM SCANNED DOCUMENTS | 2008/0227075A1 | 03-14-2008 | 09-08-2008 |
| DATA EXTRACTION FROM TEMPORAL IMAGE DATA | 7606421 | 12-08-2004 | 10-20-2009 |
| MODULAR INSTRUCTION USING COGNITIVE CONSTRUCTS | 6999954 | 10-10-2001 | 02-14-2006 |
| METHODS FOR IMPROVING CERTAINTY OF TEST-TAKER PERFORMANCE DETERMINATIONS FOR ASSESMENTS WITH OPEN-ENDED ITEMS | 7149468 | 07-25-2002 | 12-12-2006 |
| SYSTEM AND METHOD FOR THE DEVELOPMENT OF INSTRUCTIONAL AND TESTING MATERIALS | 8128414 | 08-20-2003 | 03-06-2012 |
| STUDENT REPORTING SYSTEMS AND METHODS | 7980855 | 05-23-2005 | 07-19-2011 |
| LINKING ARTICLES TO CONTENT VIA RFID | 7316347 | 01-07-2005 | 01-08-2008 |
| MODULAR INSTRUCTION USING COGNITIVE CONSTRUCTS | 7200581 | 02-10-2006 | 04-03-2007 |
| METHODS FOR IMPROVING CERTAINTY OF TEST-TAKER PERFORMANCE DETERMINATIONS FOR ASSESSMENTS WITH OPEN-ENDED ITEMS | 7865131 | 11-20-2006 | 01-04-2011 |
| USE OF COMPOSITE BITMAPPED IMAGES IN CONJUNCTION WITH DISPLAY OF CAPTURED DATA | 8526766 | 10-31-2007 | 09-03-2013 |
| SYSTEM AND METHOD FOR CREATING, ASSESSING, MODIFYING, AND USING A LEARNING MAP | 2007/0292823A1 | 08-21-2007 | 12-20-2007 |

2548953

| TITLE | Patent or Application No. | Filing Date | Issue or Publication Date |
|---|---|---|---|
| METHOD AND PLATFORM FOR OPTIMIZING LEARNING AND LEARNING RESOURCE AVAILABILITY | 2013/0022953A1 | 07-11-2012 | 01-24-2013 |
| METHODS AND SYSTEMS FOR COMPUTER SCORING OF ESSAYS | 13/041612 | 03-07-2011 | N/A |
| COMPUTERIZED SYSTEMS FOR PRODUCING ON-LINE INSTRUCTIONAL MATERIALS | 6175841 | 07-17-1997 | 01-16-2001 |
| COMPUTERIZED SYSTEMS FOR OPTICALLY SCANNING AND ELECTRONICALLY SCORING AND REPORTING TEST RESULTS | 6042384 | 06-30-1998 | 03-28-2000 |
| SYSTEM AND METHOD FOR PERFORMING AUTOMATED SHORT CONSTRUCTED RESPONSE EVALUATION | 14/212944 | 03-14-2014 | N/A |
| SYSTEMS AND METHODS FOR COMPUTATIONALLY DISTINGUISHING HANDWRITTEN PENCIL MARKS FROM PREPRINTED MARKS IN A SCANNED DOCUMENT | 9019570 | 11-27-2013 | 04-28-2015 |
| SYSTEMS AND METHODS FOR MANAGEMENT OF MULTIPLE SCORING RESOURCES | 61/942994 | 02-21-2014 | N/A |
| USE OF A RESOURCE ALLOCATION ENGINE IN PROCESSING STUDENT RESPONSES TO ASSESSMENT ITEMS | 2015/0154879 | 02-10-2015 | 06-04-2015 |