## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3179333

| SUBMISSION TYPE:      | NEW ASSIGNMENT           |
|-----------------------|--------------------------|
| NATURE OF CONVEYANCE: | NUNC PRO TUNC ASSIGNMENT |
| EFFECTIVE DATE:       | 11/02/2014               |

#### **CONVEYING PARTY DATA**

| Name               | Execution Date |
|--------------------|----------------|
| APPLIED MINDS, LLC | 01/09/2015     |

#### **RECEIVING PARTY DATA**

| Name:           | APPLIED INVENTION, LLC |  |
|-----------------|------------------------|--|
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| City:           | GLENDALE               |  |
| State/Country:  | CALIFORNIA             |  |
| Postal Code:    | 91201                  |  |

#### **PROPERTY NUMBERS Total: 76**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 14521291 |
| Application Number: | 14231542 |
| Application Number: | 14151327 |
| Application Number: | 09995272 |
| Application Number: | 10691930 |
| Application Number: | 11565496 |
| Application Number: | 12841000 |
| Application Number: | 13918822 |
| Application Number: | 60250955 |
| Application Number: | 09852491 |
| Application Number: | 60529245 |
| Application Number: | 10289995 |
| Application Number: | 60343273 |
| Application Number: | 09770863 |
| Application Number: | 60283158 |
| Application Number: | 10121562 |
| Application Number: | 10731919 |
| Application Number: | 10205328 |
| Application Number: | 11456806 |
|                     |          |

PATENT REEL: 034750 FRAME: 0495

503132723

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 11457100 |
| Application Number: | 10735400 |
| Application Number: | 60433050 |
| Application Number: | 10854045 |
| Application Number: | 11301985 |
| Application Number: | 60636822 |
| Application Number: | 11243305 |
| Application Number: | 12103652 |
| Application Number: | 60615257 |
| Application Number: | 11186574 |
| Application Number: | 12424496 |
| Application Number: | 11177789 |
| Application Number: | 13361831 |
| Application Number: | 12815156 |
| Application Number: | 13208225 |
| Application Number: | 11218938 |
| Application Number: | 11242753 |
| Application Number: | 12468760 |
| Application Number: | 12103665 |
| Application Number: | 11300950 |
| Application Number: | 12558453 |
| Application Number: | 13603240 |
| Application Number: | 11755177 |
| Application Number: | 12468726 |
| Application Number: | 60819418 |
| Application Number: | 11828221 |
| Application Number: | 60820449 |
| Application Number: | 12340361 |
| Application Number: | 13288871 |
| Application Number: | 13645357 |
| Application Number: | 13763346 |
| Application Number: | 13413323 |
| Application Number: | 61015158 |
| Application Number: | 12494084 |
| Application Number: | 61076599 |
| Application Number: | 12508413 |
| Application Number: | 13549047 |
| Application Number: | 12548724 |

PATENT REEL: 034750 FRAME: 0496

| Property Type       | Number    |
|---------------------|-----------|
| Application Number: | 13677108  |
| Application Number: | 61092690  |
| Application Number: | 12368192  |
| Application Number: | 12574574  |
| Application Number: | 13649943  |
| Application Number: | 13186294  |
| Application Number: | 61365693  |
| Application Number: | 13289904  |
| Application Number: | 61410291  |
| Application Number: | 13407279  |
| Application Number: | 61447516  |
| Application Number: | 13926922  |
| Application Number: | 61800424  |
| Application Number: | 61807227  |
| Application Number: | 61828931  |
| PCT Number:         | US0545685 |
| PCT Number:         | US0545815 |
| PCT Number:         | US0321578 |
| PCT Number:         | US0211434 |

#### CORRESPONDENCE DATA

#### **Fax Number:**

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| NAME OF SUBMITTER: KEVIN R KEEGAN |  |  |
|-----------------------------------|--|--|
| SIGNATURE: /Kevin R Keegan/       |  |  |
| DATE SIGNED:                      | 01/12/2015   |  |
|                                   | This document serves as an Oath/Declaration (37 CFR 1.63). |  |

## **Total Attachments: 4**

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> PATENT REEL: 034750 FRAME: 0497

### PATENT ASSIGNMENT

This Patent Assignment ("Assignment") is made between Applied Minds, LLC, a Delaware corporation ("Assignor"), and Applied Invention, LLC, a Delaware corporation ("Assignee") (collectively the "Parties"). The effective date ("Effective Date") of the Assignment is 2014-Nov-02.

Assignor is the owner of the entire right, title, and interest in and to the patents and patent applications, set forth in Exhibit A attached hereto ("Itemized Patents").

For consideration of good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, as of the Effective Date, Assignor does hereby sell, assign, transfer, convey and deliver to Assignee and to Assignee's successors and assigns, all of Assignor's right, title, and interest in and to the Itemized Patents, and any patents which may be hereafter granted on the Itemized Patents anywhere in the world, including any divisions, renewals, continuations in whole or part, substitutions, conversions, reissues, revivals, prolongations, or extensions thereof (collectively, the "Patents"). Said interest is to be held and enjoyed by Assignee as fully and exclusively as it would have been held and enjoyed by Assignor had this Assignment not been made. Said interest includes all common law rights in the Patents; all claims for damages by reason of past infringements of the Patents; and the right to sue for and collect damages for itself and for its successors, assigns, and other legal representatives.

Assignor authorizes the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer the Patents to Assignee, as assignee thereof, or otherwise as Assignee may direct. Assignor further agrees, promptly upon request of Assignee, or any of its successors or assigns, to make available its employees to support the preparation, prosecution, opposition proceedings, or adjudication of the same.

#### Assignor

| Applied Minds, LLC                         |
|--|
| a Delaware limited liability company       |
| By: / / /                                  |
| Name. Bran Ferron                          |
| Title: Co-Founder & Chief Creative Officer |
| Date: JAN 0 9 2015                         |
| Assignee                                   |
| Applied Invention, LLC                     |
| a Delaware lymited liability company       |
| By:  |
| Name: Daniel Abrutyn                       |
| Title: Co-Founder                          |
| Date: DEC 1 8 2014                         |

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# Ехнівіт А

| ID          | Docket           | Serial Number   | Title  |
|-------------|------------------|-----------------|--|
| 947         | 110517-          | 14/521,291      | Method and Apparatus for Two Stage Planning                              |
|             | 8103.US02        |                 |  |
| 921         | 110517~          | 14/231,542      | Wind Turbine Defense   |
|             | 8105.US01        |                 |  |
| 902         | 110517-          | 14/151,327      | Security Information Caching on Authentication                           |
|             | 8106.US01        |                 | Token  |
| 2           | APPL0001         | 09/995,272      | Method and Apparatus Maintaining Eye Contact in Video Delivery System Us |
| 47          | APPL0001C        | 10/691,930      | Method and Apparatus Maintaining Eye Contact in                          |
|             |                  |                 | Video Delivery System Us   |
| 234         | APPL0001CZ       | 11/565,496      | Method of Maintaining Eye Contact in Video                               |
| 452         | APPL0001C2-C     | 12/841,000      | Conferencing Using View Morph  Method and Apparatus for Maintaining Eye  |
| 304         | ATTEMOUTO4°C     | 147041,000      | Contact in a Video Delivery Sys  |
| 869         | APPL0001C2-C-C   | 13/918,822      | Method and Apparatus for Maintaining Eye                                 |
| 000         | ALLEGOUESE-C-C   | 137 7 10,022    | Contact in a Video Delivery Sys  |
| 18          | APPLO001PR       | 60/250,955      | Imaging Techniques   |
| 4           | APPL0004         | 09/852,491      | Method and Apparatus for Maintaining Eye                                 |
| - 1         | THE EGOOT        | 92/032/131      | Contact in Teleconferencing Usi  |
| 49          | APPL0007CI2PR    | 60/529,245      | Reputation System  |
| 28          | APPL0007CIP      | 10/289,995      | Method and Apparatus For Authenticating the                              |
| <b>~</b> ~: | 721 1 2000 7 201 | 20,200,533      | Content of a Distributed Dat   |
| 5           | APPL0007P        | PCT/US02/11434  | Knowledge Web  |
| 6           | APPL0007PR       | 60/343,273      | Knowledge Management System  |
| 7           | APPL0011         | 09/770,863      | Method and Apparatus for Executive Phone Call                            |
|             |                  | ,               | Initiation   |
| 9           | APPL0014PR       | 60/283,158      | Teleconferencing Techniques  |
| 10          | APPL0015         | 10/121,562      | Maintaining Eye-Contact in Teleconferencing                              |
|             |                  | *               | Using Structured Light   |
| 52          | APPL0015C        | 10/731,919      | Maintaining Eye-Contact in Teleconferencing                              |
|             |                  |                 | Using Structured Light   |
| 24          | APPL0025         | 10/205,328      | Method and System for Masking Speech                                     |
| 199         | APPL0025D        | 11/456,806      | Method and System for Masking Speech                                     |
| 200         | APPL0025D2       | 11/457,100      | Method and System for Masking Speech                                     |
| 116         | APPL0025EP       | EP20030765527   | Method and System for Masking Speech                                     |
| 164         | APPL0025HK       | 05109602.6      | Method and System for Masking Speech                                     |
| 119         | APPL0025JP       | 2004-523098     | Method and System for Masking Speech                                     |
| 117         | APPL0025KR       | 10-2005-7001192 | Method and System for Masking Speech                                     |
| 41          | APPL0025P        | PCT/US03/21578  | Method and System for Masking Speech                                     |
| 50          | APPL0030         | 10/735,400      | Video Game Controller Hub with Control Input                             |
|             | 3 DOLGAROS       |                 | Reduction and Combination S  |
| 29          | APPL0030PR       | 60/433,050      | Automated Purchasing System / Multi-Player                               |
| PS PS       | ABBYOOM          | 30 TET 4 5 TE   | Game Hub with Voting Scheme  |
| 77          | APPL0045         | 10/854,045      | Apparatus and Method for Selecting Actions for Visually Associated Files |
| 160         | APPL0049         | 11/301,985      | Data Store with Lock-Free Stateless Paging                               |
|             |                  |                 |  |

| ID  | Docket         | Serial Number  | Title  |
|-----|----------------|----------------|--|
|     |                |                | Capability   |
| 163 | APPL0049P      | PCT/US05/45815 | Data Store with Lock-Free Stateless Paging                                   |
|     |                |                | Capability   |
| 102 | APPL0049PR     | 60/636,822     | Method and Apparatus for Dynamically Generating                              |
|     |                |                | Assertion-Based Presenta   |
| 147 | APPL0054       | 11/243,305     | Virtual Wheeled Vehicle  |
| 349 | APPL0054D      | 12/103,652     | Virtual-Wheeled Vehicle  |
| 93  | APPL0054PR     | 60/615,257     | Robotic Mules Using Leg Pairs as Virtual Wheels                              |
| 141 | APPL0059       | 11/186,574     | Method and Apparatus for Utilizing Prescribed Aspects of Feedback Object     |
| 393 | APPL0059C      | 12/424,496     | Method and Apparatus for Utilizing Prescribed Aspect(s) of Feedback Obje     |
| 142 | APPL0060       | 11/177,789     | Anti-Item for Deletion of Content in a Distributed Datastore                 |
| 515 | APPL0060-C-C-C | 13/361,831     | Anti-Item for Deletion of Content in A Distributed Datastore                 |
| 449 | APPL0060C      | 12/815,156     | Anti-Item for Deletion of Content in a Distributed Datastore                 |
| 492 | APPL0060C-C    | 13/208,225     | Anti-Item for Deletion of Content in a Distributed Datastore                 |
| 139 | APPL0064       | 11/218,938     | Magnetic Planning Board with Stackable Snap-to-<br>Grid, Self-Aligning Items |
| 148 | APPL0069       | 11/242,753     | Bimodal Conveyance Mechanism   |
| 396 | APPL0069C      | 12/468,760     | Bùnodal Conveyance Mechanism   |
| 350 | APPL0069D      | 12/103,665     | Bimodal Conveyance Mechanism   |
| 161 | APPL0070       | 11/300,950     | Distributed Data Store with Order Stamp to Ensure<br>Progress                |
| 403 | APPL0070CIP    | 12/558,453     | Distributed Data Store with a Designated Master to Ensure Consistency        |
| 548 | APPL0070CIP-C  | 13/603,240     | Distributed Data Store with a Designated Master to Ensure Consistency        |
| 162 | APPL0070P      | PCT/US05/45685 | Distributed Data Store with Order Stamp to Ensure<br>Progress                |
| 286 | APPL0073       | 11/755,177     | Hermaphroditic Coupling  |
| 395 | APPL0073C      | 12/468,726     | Novel Hermaphroditic Coupling  |
| 201 | APPL0073PR     | 60/819,418     | Hermaphroditic Mechanical and Electrical Connector                           |
| 300 | APPL0075       | 11/828,221     | Method of Performing a Depth-First Join in a Database                        |
| 194 | APPL0075PR     | 60/820,449     | Method for Performing Depth-First Joins in a Large<br>Data Store             |
| 389 | APPL0080       | 12/340,361     | Thermal Marking System   |
| 517 | APPL0080D      | 13/288,871     | Thermal Marking System   |
| 564 | APPL0080D-C    | 13/645,357     | Thermal Marking System   |
| 752 | APPL0080D-C-D  | 13/763,346     | Thermal Marking System   |
| 522 | APPL0080D-D    | 13/413,323     | Thermal Marking System   |
| 310 | APPL0080PR     | 61/015,158     | Thermal Ballot Marking System  |
| 399 | APPL0082       | 12/494,084     | System and Method for Visualizing Relationships Between Objects              |
| 361 | APPL0082PR     | 61/076,599     | Interactive Tool for Visualizing Ordered Relationships Between Two or Mo     |

| ID  | Docket        | Serial Number | Title  |
|-----|---------------|---------------|--|
| 400 | APPL0083      | 12/508,413    | Redundant, Multi-Dimensional Data Partitioning:<br>Methods, Program Product  |
| 546 | APPL0083C     | 13/549,047    | Redundant, Multi-Dimensional Data Partitioning:<br>Methods, Program Product  |
| 404 | APPL0084      | 12/548,724    | Redundant and Fault-Tolerant Combined Power Distribution System and Comm     |
| 569 | APPL0084C     | 13/677,108    | Redundant and Fault-Tolerant Combined Power Distribution System and Comm     |
| 388 | APPLO084PR    | 61/092,690    | Redundant and Fault-Tolerant Combined Power Distribution System and Comm     |
| 392 | APPL0087      | 12/368,192    | Method and Apparatus for Establishing a Data Link<br>Based on a POTS Connec  |
| 406 | APPL0087CIP   | 12/574,574    | Method and Apparatus for Establishing Date Link<br>Based on Audio Connection |
| 565 | APPL0087CIP-C | 13/649,943    | Method and Apparatus for Establishing Date Link<br>Based on Audio Connection |
| 489 | APPL0094      | 13/186,294    | Portable Telescope   |
| 448 | APPL0094PR    | 61/365,693    | Portable Telescope   |
| 514 | APPL0096      | 13/289,904    | Systems, Structures, and Processes with<br>Embedded Resistance Device        |
| 466 | APPL0096PR    | 61/410,291    | Toy with Embedded Strain Measurement Device                                  |
| 520 | APPL0099      | 13/407,279    | Squeezable Musical Toy with Looping and<br>Decaying Score and Variable Capa  |
| 478 | APPL0099PR    | 61/447,516    | Musical Toy  |
| 873 | APPL0103      | 13/926,922    | Method and System for Two-Stage Planning                                     |
| 756 | APPL0103PR    | 61/800,424    | Method and System for Two-Stage Planning                                     |
| 758 | APPL0105PR    | 61/807,227    | Wind Turbine and Methods for Construction<br>Thereof                         |
| 867 | APPL0106PR    | 61/828,931    | Cached Knowledge Factor on a Custody-Monitored Token in a Two-factor Aut     |

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**RECORDED: 01/12/2015**