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| <b>PATENT ASSIGNMENT COVER SHEET</b> |
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6637193

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                      |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                          |
| <b>CONVEYING PARTY DATA</b>   |                                     |
| <b>Name</b>   | <b>Execution Date</b>               |
| PAUL D. ADCOCK  | 04/19/2006                          |
| MICHAEL A. CORMACK  | 04/19/2006                          |
| THOMAS F. HALLER  | 04/20/2006                          |
| ROBERT A. HILL  | 04/20/2006                          |
| <b>RECEIVING PARTY DATA</b>   |                                     |
| <b>Name:</b>  | ARCHIPELAGO HOLDINGS, INC.          |
| <b>Street Address:</b>  | 100 SOUTH WACKER DRIVE, SUITE 1800  |
| <b>City:</b>  | CHICAGO                             |
| <b>State/Country:</b>   | ILLINOIS                            |
| <b>Postal Code:</b>   | 60606                               |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                     |
| <b>Property Type</b>  | <b>Number</b>                       |
| <b>Application Number:</b>  | 17221106                            |
| <b>CORRESPONDENCE DATA</b>  |                                     |
| <b>Fax Number:</b>  | (215)656-3301                       |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                     |
| <b>Phone:</b>   | 215-656-2446                        |
| <b>Email:</b>   | pto.phil@dlapiper.com               |
| <b>Correspondent Name:</b>  | RICHARD L. CRUZ, DLA PIPER LLP (US) |
| <b>Address Line 1:</b>  | 1650 MARKET STREET, SUITE 5000      |
| <b>Address Line 4:</b>  | PHILADELPHIA, PENNSYLVANIA 19103    |
| <b>ATTORNEY DOCKET NUMBER:</b>  | NGI-14-1147CON-CON                  |
| <b>NAME OF SUBMITTER:</b>   | NANCY NUNEZ                         |
| <b>SIGNATURE:</b>   | /NN/                                |
| <b>DATE SIGNED:</b>   | 04/02/2021                          |
| <b>Total Attachments: 3</b>   |                                     |
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| source=AssignmentInventorsToArchipelagoHoldingsInc#page2.tif  |                                     |
| source=AssignmentInventorsToArchipelagoHoldingsInc#page3.tif  |                                     |

**ASSIGNMENT**

WHEREAS, we, PAUL D. ADCOCK of Burr Ridge, Illinois, MICHAEL A. CORMACK of Evanston, Illinois, THOMAS F. HALLER of Longwood, Florida, and ROBERT A. HILL of LaGrange, Illinois (the "ASSIGNORS") have invented a certain new and useful invention disclosed in an application for United States Letters Patent entitled, UNPRICED ORDER AUCTION AND ROUTING, which is executed by Declaration herewith.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to ARCHIPELAGO HOLDINGS, INC., an Illinois corporation located at 100 South Wacker Drive, Suite 1800, Chicago, Illinois, 60606 (hereinafter, together with any successors, assigns, nominees or other legal representatives thereof, called "ASSIGNEE") the entire right, title and interest in and to said application and all divisions, substitutions, continuations and continuations-in-part thereof and any improvements disclosed in or related to the subject matter of said application, and all United States Letters Patents which may be granted thereon and all reissues and extensions thereof, and all priority rights under applicable international conventions, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates and the like) heretofore or hereafter filed from said application or improvements in any foreign countries, and all patents (including all extensions, renewals and reissues thereof) granted from said application or improvements; and ASSIGNORS hereby authorize and request the United States Commissioner of Patents and Trademarks and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all such patents to ASSIGNEE in accordance with the terms of this assignment;

AND ASSIGNORS HEREBY covenant that we have full right to convey the entire interest herein assigned and that we have not executed, and will not execute, any agreement in conflict herewith;

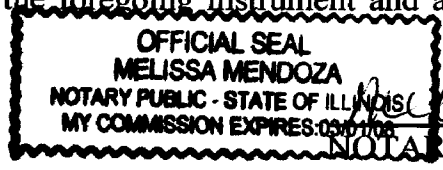
AND ASSIGNORS HEREBY further covenant and agree that we will communicate to ASSIGNEE any facts known to us respecting said application and improvements and will testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute and reissue applications, make all rightful oaths and declarations and generally provide assistance as necessary and required to aid ASSIGNEE to obtain proper patent protection from said application and improvements and to enforce such patent protection in all countries.

IN WITNESS WHEREOF, I have hereunto set my hand this 19<sup>th</sup> day of April, 2006.

[Signature]  
PAUL D. ADCOCK

STATE OF ILLINOIS )  
COUNTY OF COOK ) SS.

On 4/19, 2006, before the undersigned, a Notary Public for the State and County aforesaid, appeared the above-named PAUL D. ADCOCK, personally known to me to be the one who executed the foregoing instrument and acknowledged that he executed the same.



[Signature]  
NOTARY PUBLIC

IN WITNESS WHEREOF, I have hereunto set my hand this 19<sup>th</sup> day of April, 2006.

[Signature]  
MICHAEL A. CORMACK

STATE OF ILLINOIS )  
COUNTY OF COOK ) SS.

On 4/19, 2006, before the undersigned, a Notary Public for the State and County aforesaid, appeared the above-named MICHAEL A. CORMACK, personally known to me to be the one who executed the foregoing instrument and acknowledged that he executed the same.



[Signature]  
NOTARY PUBLIC

IN WITNESS WHEREOF, I have hereunto set my hand this 20 day of April, 2006.

  
THOMAS F. HALLER

STATE OF ILLINOIS )  
COUNTY OF COOK ) SS.

On 4/20, 2006, before the undersigned, a Notary Public for the State and County aforesaid, appeared the above-named THOMAS F. HALLER, personally known to me to be the one who executed the foregoing instrument and acknowledged that he executed the same.



  
NOTARY PUBLIC

IN WITNESS WHEREOF, I have hereunto set my hand this 20th day of April, 2006.

  
ROBERT A. HILL

STATE OF ILLINOIS )  
COUNTY OF COOK ) SS.

On 4/20, 2006, before the undersigned, a Notary Public for the State and County aforesaid, appeared the above-named ROBERT A. HILL, personally known to me to be the one who executed the foregoing instrument and acknowledged that he executed the same.



  
NOTARY PUBLIC