506458157 01/20/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT6504929

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PAUL D. ADCOCK	04/19/2006
MICHAEL A. CORMACK	04/19/2006
THOMAS F. HALLER	04/20/2006
ROBERT A. HILL	04/20/2006

RECEIVING PARTY DATA

Name:	ARCHIPELAGO HOLDINGS, INC.	
Street Address:	100 SOUTH WACKER DRIVE, SUITE 1800	
City:	CHICAGO	
State/Country:	ILLINOIS	
Postal Code:	60609	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16803669

CORRESPONDENCE DATA

Fax Number: (215)656-3301

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.

Phone: 215 656 2446

Email: pto.phil@us.dlapiper.com

Correspondent Name: RICHARD L. CRUZ ONE LIBERTY PLACE Address Line 1:

Address Line 2: 1650 MARKET STREET, SUITE 5000 Address Line 4: PHILADELPHIA, PENNSYLVANIA 19103

ATTORNEY DOCKET NUMBER:	NGI-14-1147CON
NAME OF SUBMITTER:	RICHARD L. CRUZ
SIGNATURE:	/RLC/
DATE SIGNED:	01/20/2021

Total Attachments: 3

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> **PATENT** REEL: 054966 FRAME: 0660 506458157

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PATENT REEL: 054966 FRAME: 0661

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 utilitymodel 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;

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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 WHE	REOF I have hereunt	o set my hand this 191	day of
	1001, 1 have hereum	o set my nana tins 1/	1
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		PAUL D. ADCO)CK
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COUNTY OF COOK) SS.		
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and County aforesaid, appea			
to me to be the one who e			
executed the same.	OFFI	CIAL SEAL	
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	MY COMMISS	ON EXPIRES:03/01/08	IC IC
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		MICHAELAG	
STATE OF ILLINOIS)	MICHAEL A. CO	JKWACK
COUNTY OF COOK) SS.		
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NOTARY PUBLIC - STATE NOTARY PUBLIC

MY COMMISSION EXPIRES:03/01/08

IN WITNESS WHEREOF, I have hereunto set my hand this day of, 2006.
PHOMAS F. HALLER
STATE OF ILLINOIS)
COUNTY OF COOK) SS.
On 4 00, 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.
OFFICIAL SEAL MELISSA MENDOZA NOTARY PUBLIC - STATE OF ILLINOIS NY COMMISSION EXPIRES:03/01/08 NOTARY PUBLIC
IN WITNESS WHEREOF, I have hereunto set my hand this day of
ROBERT A. HILL
STATE OF ILLINOIS)
COUNTY OF COOK) SS.
On, 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.
OFFICIAL SEAL NOTARY PUBLIC
MELISCA MENDOZA NOTARY PUBLIC - STATE OF ILLINOIS MY COMMISSION EXPIRES 03 10 10 10 10 10 10 10 10 10 10 10 10 10