

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5387760

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
AKBAR ANSARI	02/21/2019
THOMAS FAY	02/21/2019
ADNAN ALI LONE	02/21/2019
RECEIVING PARTY DATA	
Name:	NASDAQ, INC.
Street Address:	ONE LIBERTY PLAZA, 165 BROADWAY
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10006
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16251570
CORRESPONDENCE DATA	
Fax Number:	(703)816-4100
<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>	
Phone:	703-816-4000
Email:	ptomail@nixonvan.com, tmonroe@nixonvan.com
Correspondent Name:	NIXON & VANDERHYE, P.C.
Address Line 1:	901 N. GLEBE ROAD
Address Line 2:	SUITE 1100
Address Line 4:	ARLINGTON, VIRGINIA 22203
ATTORNEY DOCKET NUMBER:	AC-4010-472
NAME OF SUBMITTER:	ADAM CHAPIN
SIGNATURE:	/Adam Chapin/
DATE SIGNED:	02/22/2019
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 3	
source=4010_472_COMBINED_DEC_ASSIGNMENT#page1.tif	
source=4010_472_COMBINED_DEC_ASSIGNMENT#page2.tif	

Attorney Docket Number	AC-4010-0472
First Named Inventor	ANSARI, Akbar

**INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)
USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

- ☐ Declaration Submitted With Initial Filing
OR
☒ Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16(f)) required)

**SYSTEMS AND METHODS OF DIGITAL CONTENT CERTIFICATION
AND VERIFICATION USING CRYPTOGRAPHY AND BLOCKCHAIN**
(Title of the Invention)

As a below named inventor, I hereby declare that:

- This declaration is directed to:
☐ the attached application, or
☒ United States Application Number 16/251,570 filed 01/18/2019, or
☐ PCT International application number filed on:

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above,

WHEREAS, Nasdaq, Inc. (hereinafter ASSIGNEE), an entity, having an office and place of business at One Liberty Plaza, 165 Broadway, New York, New York United States 10006, is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;

ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and

ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

LEGAL NAME OF INVENTOR/JOINT INVENTOR:

(E.g., Given Name (first and middle (if any)) and Family Name or Surname)

Akbar

ANSARI

Inventor's Signature:

Date:

2/21/2019

Witnessed by:

Name:

SATHEESHKUMAR THIRUGARASAN

Signature of witness:

Date:

02/21/2019

Attorney Docket Number	AC-4010-0472
First Named Inventor	ANSARI, Akbar

**INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)
USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

☐ Declaration Submitted With Initial Filing

OR

☒ Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16(f)) required)

**SYSTEMS AND METHODS OF DIGITAL CONTENT CERTIFICATION
AND VERIFICATION USING CRYPTOGRAPHY AND BLOCKCHAIN**

(Title of the Invention)

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application, or
☒ United States Application Number 16/251,570 filed 01/18/2019, or
☐ PCT International application number filed on

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above.

WHEREAS, Nasdaq, Inc. (hereinafter ASSIGNEE), an entity, having an office and place of business at One Liberty Plaza, 165 Broadway, New York, New York United States 10006, is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;

ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and

ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

Legal Name of Additional Joint Inventor, if any:

(E.g., Given Name (first and middle (if any)) and Family Name or Surname)

Thomas

FAY

Inventor's Signature:

Date:

Witnessed by:

Name:

Signature of witness:

Date:

Doc code: Oath

Document Description: Oath or declaration filed

Attorney Docket Number	AC-4010-0472
First Named Inventor	ANSARI, Akbar

**INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63)
USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

☐ Declaration Submitted With Initial Filing

OR

☒ Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16(f)) required)

**SYSTEMS AND METHODS OF DIGITAL CONTENT CERTIFICATION
AND VERIFICATION USING CRYPTOGRAPHY AND BLOCKCHAIN**

(Title of the invention)

As a below named inventor, I hereby declare that:

This declaration is directed to:

- ☐ the attached application, or
☒ United States Application Number 16/251,570 filed 01/18/2019, or
☐ PCT International application number filed on

The above-identified application was made or authorized to be made by me.

I believe I am the original inventor or an original joint inventor of a claimed invention in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above.

WHEREAS, Nasdaq, Inc. (hereinafter ASSIGNEE), an entity, having an office and place of business at One Liberty Plaza, 165 Broadway, New York, New York United States 10006, is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;

ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and

ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGREED and executed as noted below:

Legal Name of Additional Joint Inventor, if any:

(E.g., Given Name (first and middle (if any)) and Family Name or Surname)

Adnan

Ali

LONE

Inventor's Signature:

Date:

Witnessed by:

Name:

Signature of witness:

Date:

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

PATENT

RECORDED: 02/22/2019

REEL: 048404 FRAME: 0856