

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5255071

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| SIVAKUMARESAN THANGESWARAN | 08/10/2016 |
| RECEIVING PARTY DATA | |
| Name: | NASDAQ, INC. |
| Street Address: | ONE LIBERTY PLAZA |
| Internal Address: | 165 BROADWAY |
| City: | NEW YORK |
| State/Country: | NEW YORK |
| Postal Code: | 10006 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16202373 |
| CORRESPONDENCE DATA | |
| Fax Number: | (703)816-4100 |
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| ATTORNEY DOCKET NUMBER: | SJP-4010-468 |
| NAME OF SUBMITTER: | STEPHEN J. PACHOL |
| SIGNATURE: | /Stephen J. Pachol/ |
| DATE SIGNED: | 11/28/2018 |
| This document serves as an Oath/Declaration (37 CFR 1.63). | |
| Total Attachments: 1 | |
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|------------------------|--------------------------------|
| Attorney Docket Number | SJP-4010-356 |
| First Named Inventor | THANGESWARAN, Sivakumaresan |

**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)

SOFTWARE APPLICATION ARCHITECTURE

(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 15/219,913 filed July 26, 2016, 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)

Sivakumaresan

THANGESWARAN

Inventor's Signature:



Date

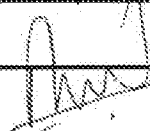
10-AUG-2016

Witnessed by:

Name:

BALAJI MOHAM C

Signature of witness:



Date:

10-AUG-2016