PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5312295

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	CHANGE OF NAME

CONVEYING PARTY DATA

Name	Execution Date
ILLUMON LLC	07/24/2018

RECEIVING PARTY DATA

Name:	DEEPHAVEN DATA LABS LLC
Street Address:	2800 NIAGARA LANE NORTH
City:	PLYMOUTH
State/Country:	MINNESOTA
Postal Code:	55447

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16215543

CORRESPONDENCE DATA

Fax Number:

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:	7036469255
Email:	susan@carmichaelip.com
Correspondent Name:	JAMES T. CARMICHAEL
Address Line 1:	CARMICHAEL IP, PLLC
Address Line 2:	8000 TOWERS CRESCENT DRIVE, 13TH FLOOR
Address Line 4:	TYSONS CORNER, VIRGINIA 22182

ATTORNEY DOCKET NUMBER:	W2.10-10111US02
NAME OF SUBMITTER:	SUSAN STILES
SIGNATURE:	/Susan Stiles/
DATE SIGNED:	01/07/2019

Total Attachments: 8

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WRITTEN CONSENT
OF THE
BOARD OF GOVERNORS
OF
ILLUMON LLC

The undersigned, being all of the members of the board of governors (the "Board") of Illumon LLC (the "Company"), under and in accordance with the Delaware Limited Liability Company Act and pursuant to Section 12.1 of the Amended and Restated Limited Liability Company Agreement of the Company, do hereby consent to and adopt the following resolutions effective as of July 24, 2018:

WHEREAS, the Board has determined that it is advisable and in the best interest of the Company and its members to change the name of the Company to Deephaven Data Labs LLC (the "Name Change"), and to amend the certificate of formation of the Company (the "Certificate of Formation") to effect the Name Change.

RESOLVED, that the Board hereby approves, adopts and ratifies the certificate of amendment to the Certificate of Formation (the "Amendment"), attached hereto as Exhibit A;

RESOLVED FURTHER, that the Company's name shall be changed from Illumon LLC to Deephaven Data Labs LLC, effective upon the filing of the Amendment with the Secretary of State of the State of Delaware;

RESOLVED FURTHER, that the appropriate officers and agents of the Company are hereby authorized and directed, for and on behalf of the Company, to take such actions and to execute such other documents and instruments as they may deem necessary or appropriate, including to pay such expenses as they or any of them deem necessary or appropriate, on advice of legal counsel, to carry out the purposes of, or to accomplish the transactions contemplated by the foregoing resolutions, including, but not limited to, the filing of the Amendment with the Delaware Secretary of State;
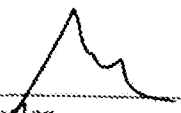
RESOLVED FURTHER, that all actions of the officers and agents of the Company prior to the effective date of this written consent in furtherance of the intent and purposes of the foregoing resolutions be, and they hereby are, approved, adopted and ratified in all respects; and

RESOLVED FURTHER, that this written consent be placed in the minute book of the Company with the records of the Company.
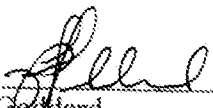
[Signature Page Follows]

IN WITNESS WHEREOF, the undersigned have executed this Written Consent as the date first written above.
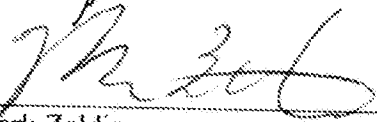
BOARD OF GOVERNORS:

_____
Irvin Kessler

_____
Peter Goddard

_____
Mark Zeldis

EXHIBIT A

Certificate of Amendment

[See attached]

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF AMENDMENT OF "ILLUMON LLC", CHANGING ITS NAME FROM "ILLUMON LLC" TO "DEEPHAVEN DATA LABS LLC", FILED IN THIS OFFICE ON THE TWENTY-FOURTH DAY OF JULY, A.D. 2018, AT 1:21 O`CLOCK P.M.

Jeffrey W. Bullock, Secretary of State

6198354 8100

SR# 20185812142

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 203118631

Date: 07-24-18

**PATENT
REEL: 047920 FRAME: 0753**

CERTIFICATE OF AMENDMENT
TO
CERTIFICATE OF FORMATION
OF
ILLUMON LLC

Illumon LLC, a limited liability company duly organized and existing under the Delaware Limited Liability Company Act (the "*Company*"), does hereby certify that:

FIRST: The name of the Company is Illumon LLC.

SECOND: The first Article of the Certificate of Formation of the Company is hereby replaced in its entirety with the following:

"1. The name of the limited liability company is Deephaven Data Labs LLC."

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Amendment this 24 day of   July   , 2018.

ILLUMON LLC

Name: Peter Goddard
Title: Manager

US Patent Applications

U.S. Patent App. No.	Filing Date	Title
62/161,813	14-May-15	COMPUTER DATA SYSTEM
62/549,908	31-May-17	COMPUTER DATA SYSTEM
62/608,320	17-Dec-17	COMPUTER DATA SYSTEM
62/635,544	27-Feb-18	COMPUTER DATA SYSTEM
62/677,165	28-May-18	COMPUTER DATA SYSTEM
62/688,649	22-Jun-18	COMPUTER DATA SYSTEM
62/702,388	24-Jul-18	COMPUTER DATA SYSTEM
15/154,974	14-May-16	DATA PARTITIONING AND ORDERING
15/154,975	14-May-16	COMPUTER DATA SYSTEM DATA SOURCE REFRESHING USING AN UPDATE PROPAGATION GRAPH
15/154,979	14-May-16	COMPUTER DATA SYSTEM POSITION-INDEX MAPPING
15/154,980	14-May-16	SYSTEM PERFORMANCE LOGGING OF COMPLEX REMOTE QUERY PROCESSOR QUERY OPERATIONS
15/154,983	14-May-16	DISTRIBUTED AND OPTIMIZED GARBAGE COLLECTION OF REMOTE AND EXPORTED TABLE HANDLE LINKS TO UPDATE PROPAGATION GRAPH NODES
15/154,984	14-May-16	COMPUTER DATA SYSTEM CURRENT ROW POSITION QUERY LANGUAGE CONSTRUCT AND ARRAY PROCESSING QUERY LANGUAGE CONSTRUCTS
15/154,985	14-May-16	PARSING AND COMPILING DATA SYSTEM QUERIES
15/154,987	14-May-16	DYNAMIC FILTER PROCESSING
15/154,988	14-May-16	DYNAMIC JOIN PROCESSING USING REAL-TIME MERGED NOTIFICATION LISTENER
15/154,990	14-May-16	DYNAMIC TABLE INDEX MAPPING
15/154,991	14-May-16	QUERY TASK PROCESSING BASED ON MEMORY ALLOCATION AND PERFORMANCE CRITERIA
15/154,993	14-May-16	A MEMORY-EFFICIENT COMPUTER SYSTEM FOR DYNAMIC UPDATING OF JOIN PROCESSING
15/154,995	14-May-16	QUERY DISPATCH AND EXECUTION ARCHITECTURE
15/154,996	14-May-16	COMPUTER DATA DISTRIBUTION ARCHITECTURE
15/154,997	14-May-16	DYNAMIC UPDATING OF QUERY RESULT DISPLAYS
15/154,998	14-May-16	DYNAMIC CODE LOADING
15/154,999	14-May-16	IMPORTATION, PRESENTATION, AND PERSISTENT STORAGE OF DATA
15/155,001	14-May-16	COMPUTER DATA DISTRIBUTION ARCHITECTURE
15/155,005	14-May-16	PERSISTENT QUERY DISPATCH AND EXECUTION ARCHITECTURE
15/155,006	14-May-16	SINGLE INPUT GRAPHICAL USER INTERFACE CONTROL ELEMENT AND METHOD
15/155,007	14-May-16	GRAPHICAL USER INTERFACE DISPLAY EFFECTS FOR A COMPUTER DISPLAY SCREEN
15/155,009	14-May-16	COMPUTER ASSISTED COMPLETION OF HYPERLINK COMMAND SEGMENTS
15/155,010	14-May-16	HISTORICAL DATA REPLAY UTILIZING A COMPUTER SYSTEM

15/155,011	14-May-16	DATA STORE ACCESS PERMISSION SYSTEM WITH INTERLEAVED APPLICATION OF DEFERRED ACCESS CONTROL FILTERS
15/155,012	14-May-16	REMOTE DATA OBJECT PUBLISHING/SUBSCRIBING SYSTEM HAVING A MULTICAST KEY-VALUE PROTOCOL
15/351,429	14-Nov.-16	QUERY TASK PROCESSING BASED ON MEMORY ALLOCATION AND PERFORMANCE CRITERIA
15/428,145	8-Feb-17	GRAPHICAL USER INTERFACE DISPLAY EFFECTS FOR A COMPUTER DISPLAY SCREEN
15/448,930	3-Mar-17	QUERY TASK PROCESSING BASED ON MEMORY ALLOCATION AND PERFORMANCE CRITERIA
15/452,574	7-Mar-17	PARSING AND COMPILING DATA SYSTEM QUERIES
15/464,314	20-Mar-17	COMPUTER DATA DISTRIBUTION ARCHITECTURE
15/466,836	22-Mar-17	DATA STORE ACCESS PERMISSION SYSTEM WITH INTERLEAVED APPLICATION OF DEFERRED ACCESS CONTROL FILTERS
15/478,212	3-Apr-17	DISTRIBUTED AND OPTIMIZED GARBAGE COLLECTION OF REMOTE AND EXPORTED TABLE HANDLE LINKS TO UPDATE PROPAGATION GRAPH NODES
15/583,777	1-May-17	DYNAMIC FILTER PROCESSING
15/583,934	1-May-17	DYNAMIC JOIN PROCESSING USING REAL-TIME MERGED NOTIFICATION LISTENER
15/595,912	15-May-17	COMPUTER DATA SYSTEM POSITION-INDEX MAPPING
15/608,963	30-May-17	DYNAMIC TABLE INDEX MAPPING
15/610,162	31-May-17	DYNAMIC CODE LOADING
15/654,461	19-Jul-17	IMPORTATION, PRESENTATION, AND PERSISTENT STORAGE OF DATA
15/709,183	19-Sep-17	SYSTEM PERFORMANCE LOGGING OF COMPLEX REMOTE QUERY OPERATIONS
15/710,513	20-Sep-17	COMPUTER DATA SYSTEM DATA SOURCE REFRESHING USING AN UPDATE PROPAGATION GRAPH
15/796,230	27-Oct-17	COMPUTER ASSISTED COMPLETION OF HYPERLINK COMMAND SEGMENTS
15/813,112	14-Nov-17	COMPUTER DATA SYSTEM DATA SOURCE REFRESHING USING AN UPDATE PROPAGATION GRAPH HAVING A MERGED JOIN LISTENER
15/813,119	14-Nov-17	KEYED ROW SELECTION
15/813,127	14-Nov-17	COMPUTER DATA DISTRIBUTION ARCHITECTURE CONNECTING AN UPDATE PROPAGATION GRAPH THROUGH MULTIPLE REMOTE QUERY PROCESSORS
15/813,142	14-Nov-17	COMPUTER DATA SYSTEM DATA SOURCE HAVING AN UPDATE PROPAGATION GRAPH WITH FEEDBACK CYCLICALITY
15/897,547	15-Feb-18	DYNAMIC CODE LOADING
15/923,736	15-Feb-18	COMPUTER SYSTEM FOR JOIN PROCESSING
15/996,108	1-Jun-18	COMPUTER DATA SYSTEM DATA SOURCE HAVING AN UPDATE PROPGATION GRAPH WITH FEEDBACK CYCLICALITY
15/997,369	4-Jun-18	COMPUTER DATA DISTRIBUTION ARCHITECTURE

15/997,436	4-Jun-18	REMOTE DATA OBJECT PUBLISHING/SUBSCRIBING SYSTEM HAVING A MULTICAST KEY-VALUE PROTOCOL
16/004,578	11-Jun-18	GRAPHICAL USER INTERFACE DISPLAY EFFECTS FOR A COMPUTER DISPLAY SCREEN
16/036,187	16-Jul-18	QUERY DISPATCH AND EXECUTION ARCHITECTURE

PATENT