

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

EPAS ID: PAT5535626

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the CHANGE OF NAME ERRONEOUS SUBMISSION previously recorded on Reel 046581 Frame 0475. Assignor(s) hereby confirms the OWNERSHIP NEVER CHANGED. THE ASSIGNEE IS INTERACTIVE DATA PRICING AND REFERENCE DATA LLC.

**CONVEYING PARTY DATA**

Name	Execution Date
INTERACTIVE DATA PRICING AND REFERENCE DATA LLC	07/14/2016

**RECEIVING PARTY DATA**

<b>Name:</b>	INTERACTIVE DATA PRICING AND REFERENCE DATA LLC
<b>Street Address:</b>	32 CROSBY DRIVE
<b>City:</b>	BEDFORD
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01730

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	15210036

**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@dlapiper.com  
**Correspondent Name:** RICHARD L. CRUZ, DLA PIPER LLP (US)  
**Address Line 1:** 1650 MARKET STREET, SUITE 5000  
**Address Line 4:** PHILADELPHIA, PENNSYLVANIA 19103

<b>ATTORNEY DOCKET NUMBER:</b>	IDC-16-1087R
<b>NAME OF SUBMITTER:</b>	NANCY NUNEZ
<b>SIGNATURE:</b>	/NN/
<b>DATE SIGNED:</b>	05/22/2019

**Total Attachments: 5**

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UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUG 13 2018

AUGUST 9, 2018

PTAS

IP DEPT.

RICHARD L. CRUZ, DLA PIPER LLP (US)  
1650 MARKET STREET, SUITE 4900  
PHILADELPHIA, PA 19103

**505009126**

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 07/18/2018

REEL/FRAME: 046581/0475  
NUMBER OF PAGES: 4

BRIEF: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: IDC1085-87R;1312;1109FAM

ASSIGNOR:

INTERACTIVE DATA CORPORATION

DOC DATE: 03/13/2018

ASSIGNEE:

ICE DATA SERVICES, INC.  
32 CROSBY DRIVE  
BEDFORD, MASSACHUSETTS 01730

APPLICATION NUMBER: 09835605

FILING DATE: 04/16/2001

PATENT NUMBER: 7167837

ISSUE DATE: 01/23/2007

TITLE: FAIR-VALUE PRICING OF A FINANCIAL ASSET

APPLICATION NUMBER: 11480078

FILING DATE: 06/30/2006

PATENT NUMBER: 7707100

ISSUE DATE: 04/27/2010

TITLE: SYSTEM AND METHOD FOR DISPLAYING TREND INDICATIONS

APPLICATION NUMBER: 11605031

FILING DATE: 11/27/2006

PATENT NUMBER: 7860770

ISSUE DATE: 12/28/2010

TITLE: FAIR-VALUE PRICING OF A FINANCIAL ASSET

APPLICATION NUMBER: 12980004                      FILING DATE: 12/28/2010  
PATENT NUMBER: 8156027                            ISSUE DATE: 04/10/2012  
TITLE: FAIR-VALUE PRICING OF A FINANCIAL ASSET

APPLICATION NUMBER: 14457586                      FILING DATE: 08/12/2014  
PATENT NUMBER:                                      ISSUE DATE:  
TITLE: SYSTEMS AND METHODS RELATED TO BOND VALUATION

APPLICATION NUMBER: 15151179                      FILING DATE: 05/10/2016  
PATENT NUMBER:                                      ISSUE DATE:  
TITLE: DATA CONVERSION AND DISTRIBUTION SYSTEMS

APPLICATION NUMBER: 15210036                      FILING DATE: 07/14/2016  
PATENT NUMBER:                                      ISSUE DATE:  
TITLE: SYSTEMS AND METHODS FOR DATA EXCHANGE AND CONVERSION

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5055874

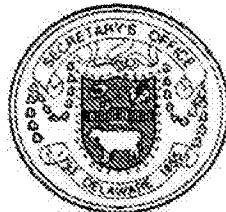
<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	CHANGE OF NAME
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
INTERACTIVE DATA CORPORATION	03/13/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ICE DATA SERVICES, INC.
<b>Street Address:</b>	32 CROSBY DRIVE
<b>City:</b>	BEDFORD
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01730
<b>PROPERTY NUMBERS Total: 7</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	7707100
Patent Number:	8156027
Patent Number:	7860770
Patent Number:	7167837
Application Number:	14457586
Application Number:	15151179
Application Number:	15210036
<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 4900
<b>Address Line 4:</b>	PHILADELPHIA, PENNSYLVANIA 19103
<b>ATTORNEY DOCKET NUMBER:</b>	IDC1085-87R;1312;1109FAM
<b>NAME OF SUBMITTER:</b>	NANCY NUNEZ
<b>SIGNATURE:</b>	/NN/
<b>DATE SIGNED:</b>	07/18/2018

# Delaware

Page 1

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 "INTERACTIVE DATA CORPORATION", CHANGING ITS NAME FROM "INTERACTIVE DATA CORPORATION" TO "ICE DATA SERVICES, INC.", FILED IN THIS OFFICE ON THE NINETEENTH DAY OF MARCH, A.D. 2018, AT 4:12 O`CLOCK P.M.



  
Jeffrey W. Bullock, Secretary of State

2298843 8100  
SR# 20182231727

Authentication: 202403322  
Date: 03-27-18

You may verify this certificate online at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

**PATENT**  
**REEL: 051466 FRAME: 0006**

**STATE OF DELAWARE  
CERTIFICATE OF AMENDMENT  
OF CERTIFICATE OF INCORPORATION**

The corporation organized and existing under and by virtue of the General Corporation Law of the State of Delaware does hereby certify:

**FIRST:** That at a meeting of the Board of Directors of  
Interactive Data Corporation

resolutions were duly adopted setting forth a proposed amendment of the Certificate of Incorporation of said corporation, declaring said amendment to be advisable and calling a meeting of the stockholders of said corporation for consideration thereof. The resolution setting forth the proposed amendment is as follows:


**RESOLVED**, that the Certificate of Incorporation of this corporation be amended by changing the Article thereof numbered "First" so that, as amended, said Article shall be and read as follows:

**FIRST:** The name of the corporation is ICE Data Services, Inc. (the "Corporation").

**SECOND:** That thereafter, pursuant to resolution of its Board of Directors, a special meeting of the stockholders of said corporation was duly called and held upon notice in accordance with Section 222 of the General Corporation Law of the State of Delaware at which meeting the necessary number of shares as required by statute were voted in favor of the amendment.

**THIRD:** That said amendment was duly adopted in accordance with the provisions of Section 242 of the General Corporation Law of the State of Delaware.

IN WITNESS WHEREOF, said corporation has caused this certificate to be signed this 13th day of March, 2018.

By:   
Authorized Officer  
Title: Assistant Secretary

Name: Andrew J. Surdykowski  
Print or Type