

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5848182

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT
EFFECTIVE DATE:	04/30/2016

CONVEYING PARTY DATA

Name	Execution Date
IEEE GLOBALSPEC, INC.	11/26/2019

RECEIVING PARTY DATA

Name:	THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
Street Address:	3 PARK AVENUE
Internal Address:	17TH FLOOR
City:	NEW YORK
State/Country:	NEW YORK
Postal Code:	10016-5997

PROPERTY NUMBERS Total: 4

Property Type	Number
Patent Number:	8126877
Patent Number:	7356533
Patent Number:	8205025
Patent Number:	8065283

CORRESPONDENCE DATA

Fax Number: (212)953-7201

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: (212) 415-9200

Email: IP.Docket@dorsey.com, quiles.lorraine@dorsey.com

Correspondent Name: DORSEY & WHITNEY LLLP

Address Line 1: INTELLECTUAL PROPERTY - PATENT DOCKET

Address Line 2: 51 WEST 52ND STREET

Address Line 4: NEW YORK, NEW YORK 10019-6119

ATTORNEY DOCKET NUMBER:	P285348 FAMILY
NAME OF SUBMITTER:	LORRAINE QUILES
SIGNATURE:	/Lorraine Quiles/
DATE SIGNED:	12/03/2019

Total Attachments: 10

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CONFIRMATORY PATENT ASSIGNMENT

This Confirmatory Patent Assignment is extended by The Institute of Electrical and Electronics Engineers, a New York not-for-profit corporation, with a principal place of business located at 3 Park Avenue, 17th Floor, New York, New York 10016-5997 (the "Assignee"), and IEEE GlobalSpec, Inc., a subsidiary of Assignee, with its office at 201 Fuller Road, Albany, New York 12203 (the "Assignor")(collectively, the "Parties").

WHEREAS, Assignor and Assignee have entered an Intellectual Property Agreement dated April 30, 2016 (the "Intellectual Property Agreement"), under which Assignor has assigned its rights to certain intellectual property to Assignor, including the patents identified in Schedule A hereto.

WHEREAS, Assignor and Assignee desire to confirm said assignment of the property assignment.

NOW THEREFORE, Assignor and Assignee confirm that pursuant to the Intellectual Property Agreement and for good and valuable consideration to Assignor, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transferred and by these presents does hereby sell, assign and transfer to the said Assignee, and said Assignee's legal representatives, successors and assigns, *nunc pro tunc* effective as of April 30, 2016, any and all of the entire right, title and interest in and to the right, title and interest it may have in the patents identified in Schedule A hereto, and any provisional, non-provisional, continuation, continuation-in-part, divisional, international, foreign, regional and convention applications corresponding thereto; any and all patents of the United States and countries and regions foreign thereto which may grant or have granted thereto or be lodged in relation thereto; any reissue or reexamination thereof or to be obtained therefor; any renewals or substitutes thereof; any and all priority rights or priority claims, or International Convention rights; any and all rights to enforce, assert and sue for past, present and future infringement of the patents, and all rights to recover and collect for past, present and future damages related to the patents of the United States and countries and regions foreign thereto, including all rights to injunctive relief, rights to collect royalties, and other remedies of any kind on account of the patents; and any other benefits accruing to or to accrue to Assignor with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto (collectively the "Patent Rights");

Assignor hereby authorizes and requests the competent authorities to grant and to issue any and all such patents in the United States and throughout the world to the Assignee and the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by Assignor had this sale, conveyance, assignment, and transfer not been made;

Assignor agrees, at any time, upon the request of the Assignee, to execute and to deliver to the Assignee any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any of the patents issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof;

and further agrees at any time to cooperate with Assignee, and to execute and to deliver upon request of the Assignee such additional documents, if any, as are necessary or desirable, in the prosecution of the patents, and to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do such acts as are necessary to give full effect to and to perfect the rights of the Assignee under this Confirmatory Patent Assignment, including the execution, delivery and procurement of any and all further documents evidencing this sale, conveyance, assignment, and transfer as may be necessary or desirable.

Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party;

Assignor further represents and covenants that it will, upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings as may be necessary to perfect the Assignee's enjoyment of this grant, and execute acknowledgments of this assignment as necessary for full enjoyment of the Patent Rights and for recording in foreign patent offices.

IN TESTIMONY WHEREOF, the Assignor confirms its assignment on the date and in the place set forth below.

Executed as of this 26 day of November 2016⁹

IEEE GLOBALSPEC, INC.,

ASSIGNOR

By: Pete Hoelscher

Name: Pete Hoelscher

Its: Acting Chief Executive Officer

STATE OF New York)
COUNTY OF Albany)

On this 26 day of November, 2016⁹, before me, a Notary Public, personally appeared Peter Hoelscher, to me known and known to me to be the person of that name, who signed the foregoing instrument and acknowledged the same to be his/her free act and deed.

7/23/23

My Commission Expires

[Signature]
Notary Public

LUCY OLIVE
NOTARY PUBLIC-STATE OF NEW YORK
No. 0106171375
Qualified in Albany County
My Commission Expires July 23, 2023

Executed as of this ____ day of _____ 2016

The Institute of Electrical and Electronics Engineers

ASSIGNEE

By: _____

Name: _____

Its: _____

STATE OF)

)

COUNTY OF)

On this _____ day of _____, 2016, before me, a Notary Public, personally appeared _____, to me known and known to me to be the person of that name, who signed the foregoing instrument and acknowledged the same to be his/her free act and deed.

Notary Public

My Commission Expires

SCHEDULE A

TITLE	U.S. PATENT NO.	ISSUE DATE
Arranging Search Engine Results	8,126,877	2/28/2012
Database Search In Distributed Computer System On Portion Of Remote	7,356,533	4/08/2008
Efficient Buffered Reading With A Plug-In For Input Buffer Size Determination	8,205,025	6/19/2012
Term Synonym Generation	8,065,283	11/22/2011

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WHEREAS, Assignor and Assignee have entered an Intellectual Property Agreement dated April 30, 2016 (the "Intellectual Property Agreement"), under which Assignor has assigned its rights to certain intellectual property to Assignor, including the patents identified in Schedule A hereto.

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NOW THEREFORE, Assignor and Assignee confirm that pursuant to the Intellectual Property Agreement and for good and valuable consideration to Assignor, the receipt and sufficiency of which are hereby acknowledged, Assignor has sold, assigned, and transferred and by these presents does hereby sell, assign and transfer to the said Assignee, and said Assignee's legal representatives, successors and assigns, *nunc pro tunc* effective as of April 30, 2016, any and all of the entire right, title and interest in and to the right, title and interest it may have in the patents identified in Schedule A hereto, and any provisional, non-provisional, continuation, continuation-in-part, divisional, international, foreign, regional and convention applications corresponding thereto; any and all patents of the United States and countries and regions foreign thereto which may grant or have granted thereto or be lodged in relation thereto; any reissue or reexamination thereof or to be obtained therefor; any renewals or substitutes thereof; any and all priority rights or priority claims, or International Convention rights; any and all rights to enforce, assert and sue for past, present and future infringement of the patents, and all rights to recover and collect for past, present and future damages related to the patents of the United States and countries and regions foreign thereto, including all rights to injunctive relief, rights to collect royalties, and other remedies of any kind on account of the patents; and any other benefits accruing to or to accrue to Assignor with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto (collectively the "Patent Rights");

Assignor hereby authorizes and requests the competent authorities to grant and to issue any and all such patents in the United States and throughout the world to the Assignee and the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by Assignor had this sale, conveyance, assignment, and transfer not been made;

Assignor agrees, at any time, upon the request of the Assignee, to execute and to deliver to the Assignee any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any of the patents issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof;

and further agrees at any time to cooperate with Assignee, and to execute and to deliver upon request of the Assignee such additional documents, if any, as are necessary or desirable, in the prosecution of the patents, and to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do such acts as are necessary to give full effect to and to perfect the rights of the Assignee under this Confirmatory Patent Assignment, including the execution, delivery and procurement of any and all further documents evidencing this sale, conveyance, assignment, and transfer as may be necessary or desirable.

Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party;

Assignor further represents and covenants that it will, upon request, without further or additional consideration, but at the expense of the said Assignee, execute such additional assignments and other writings as may be necessary to perfect the Assignee's enjoyment of this grant, and execute acknowledgments of this assignment as necessary for full enjoyment of the Patent Rights and for recording in foreign patent offices.

IN TESTIMONY WHEREOF, the Assignor confirms its assignment on the date and in the place set forth below.

Executed as of this ____ day of _____ 2019

IEEE GLOBALSPEC, INC.,

ASSIGNOR

Name: _____

Title: _____

Date: _____

STATE OF _____)

COUNTY OF _____)

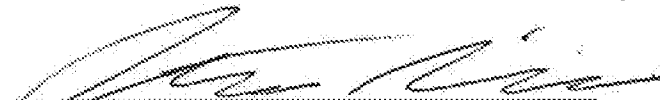
On this _____ day of _____, 2019, before me, a Notary Public, personally appeared _____, to me known and known to me to be the person of that name, who signed the foregoing instrument and acknowledged the same to be his/her free act and deed.

Notary Public

My Commission Expires

Executed as of this 27th day of November 2019

The Institute of Electrical and Electronics Engineers, Incorporated


ASSIGNEE

Name: Jonathan Wiggins

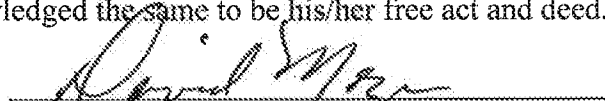
Title: Senior Intellectual Property Attorney and Chief Privacy Officer

Date: November 27, 2019 _____

STATE OF _____)

COUNTY OF _____)

On this 27th day of November, 2019, before me, a Notary Public, personally appeared Jonathan Wiggins, to me known and known to me to be the person of that name, who signed the foregoing instrument and acknowledged the same to be his/her free act and deed.


Notary Public

January 22, 2023
My Commission Expires

DAVID MEZA
Notary Public, State of New York
Registration #01ME6053996
Qualified In New York County
Commission Expires Jan. 22, 2023

SCHEDULE A

TITLE	U.S. PATENT NO.	ISSUE DATE
Arranging Search Engine Results	8,126,877	2/28/2012
Database Search In Distributed Computer System On Portion Of Remote	7,356,533	4/08/2008
Efficient Buffered Reading With A Plug-In For Input Buffer Size Determination	8,205,025	6/19/2012
Term Synonym Generation	8,065,283	11/22/2011