

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5196439

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BARRY E. MAPEN	07/02/2018
DAVID ALAN ACKERMAN	10/05/2018
MICHAEL J. KIERNAN	07/13/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	PRINCETON IDENTITY, INC.
<b>Street Address:</b>	300 HORIZON DRIVE
<b>Internal Address:</b>	SUITE 304
<b>City:</b>	HAMILTON
<b>State/Country:</b>	NEW JERSEY
<b>Postal Code:</b>	08691
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15661297
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(973)297-3762
<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>	973-848-8623
<b>Email:</b>	shalpern@mccarter.com
<b>Correspondent Name:</b>	STEVEN E. HALPERN C/O MCCARTER & ENGLISH
<b>Address Line 1:</b>	100 MULBERRY STREET
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<b>Address Line 4:</b>	NEWARK, NEW JERSEY 07102
<b>ATTORNEY DOCKET NUMBER:</b>	127134-00046D
<b>NAME OF SUBMITTER:</b>	STEVEN E. HALPERN
<b>SIGNATURE:</b>	/Steven E. Halpern/
<b>DATE SIGNED:</b>	10/19/2018
<b>Total Attachments: 3</b>	
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source=ExecutedAssignmentsMapenAckermanKiernan127134-46D#page2.tif	



# CONFIRMATORY ASSIGNMENT

WHEREAS, I, BARRY E. MAPEN, a citizen of the United States, residing at 324 Elm Street, Stonington, Connecticut 06378 (hereinafter "Assignor"), together with my co-inventors, ANDREW JAMES BOHL, DAVID ALAN ACKERMAN, CHRISTOPHER ROBERT MARTIN, MICHAEL J. KIERNAN, and JOHN TIMOTHY GREEN have invented new and non-obvious inventions for which PCT International Application No. PCT/US2017/013110 was filed on January 12, 2017, (i) from which priority is claimed to U.S. Provisional Application No. 62/277,630 filed on January 12, 2016, and U.S. Provisional Application No. 62/295,554 filed on February 16, 2016, and (ii) to which priority is, and/or will in the future be, claimed directly and/or indirectly by U.S. and foreign applications, including, but not limited to, U.S. App. Nos. 15/661,188, 15/661,246, 15/661,267, 15/661,297, and 15/661,340, filed July 27, 2017, applications before the European Patent Office (and member countries), Japan, and South Korea, and any and all other patent applications filed at any time worldwide; and

WHEREAS, PRINCETON IDENTITY, INC., a corporation organized and existing under the laws of the State of Delaware and having a place of business at 300 Horizon Drive, Suite 304, Hamilton, New Jersey 08691 (referred to hereinafter as "Assignee"), is desirous of further memorializing acquisition of any and all of Assignor's entire right, title and interest in and to each and every one of said inventions, each and every one of said applications (whether filed previously or in the future), and any and all U.S. and/or foreign patents that may be granted thereon or therefrom;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby memorializes that it has sold, assigned and set over to said Assignee any and all of his entire right, title and interest in and for the United States of America and all other countries in and to said inventions, including the right to claim priority, and the aforesaid applications for patent, all original, divisional, continuation, continuation-in-part, provisional, non-provisional, reexamination, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said applications resulting therefrom to PRINCETON IDENTITY, INC., as Assignee of the entire interest therein; and the undersigned for him and his legal representatives, heirs and assigns does hereby agree and covenant, without further remuneration, to execute and deliver all non-provisional, divisional, continuation, continuation-in-part, reexamination, reissue and other applications for patent on said inventions and all assignments and powers of attorney thereof to said Assignee or its assigns, to communicate to said Assignee or its legal representatives all facts known to the undersigned respecting said inventions, to testify in any *inter partes* reviews, post-grant reviews, derivation proceedings, covered business method patent reviews, interferences, or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths and to do generally everything necessary to aid said Assignee, its successors, assigns and nominees in obtaining patent protection on said inventions in all countries, the expenses incident to said applications to be borne and paid by said Assignee.

Date: 7/2/2018

By: [Signature]  
BARRY E. MAPEN

State of Connecticut

County of New London

On this 2nd day of July, 2018, before me personally came the above-named BARRY E. MAPEN personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument as the individual who executed the foregoing instrument, who acknowledged to me the same was executed by him of his own free will for the uses and purposes therein mentioned.

[Signature]  
Notary Public  
ME1 27532886v.1

REGAN A. NICHOLS  
Notary Public

My Commission Expires PATENT 2018

REEL: 047232 FRAME: 0937

CONFIRMATORY ASSIGNMENT

WHEREAS, I, DAVID ALAN ACKERMAN, a citizen of the United States, residing at 7 East Prospect Street, Hopewell, New Jersey 08525 (hereinafter "Assignor"), together with my co-inventors, ANDREW JAMES BOHL, BARRY E. MAPEN, CHRISTOPHER ROBERT MARTIN, MICHAEL J. KIERNAN, and JOHN TIMOTHY GREEN have invented new and non-obvious inventions for which PCT International Application No. PCT/US2017/013110 was filed on January 12, 2017, (i) from which priority is claimed to U.S. Provisional Application No. 62/277,630 filed on January 12, 2016, and U.S. Provisional Application No. 62/295,554 filed on February 16, 2016, and (ii) to which priority is, and/or will in the future be, claimed directly and/or indirectly by U.S. and foreign applications, including, but not limited to, U.S. App. Nos. 15/661,188, 15/661,246, 15/661,267, 15/661,297, and 15/661,340, filed July 27, 2017, applications before the European Patent Office (and member countries), Japan, and South Korea, and any and all other patent applications filed at any time worldwide; and

WHEREAS, PRINCETON IDENTITY, INC., a corporation organized and existing under the laws of the State of Delaware and having a place of business at 300 Horizon Drive, Suite 304, Hamilton, New Jersey 08691 (referred to hereinafter as "Assignee"), is desirous of further memorializing acquisition of any and all of Assignor's entire right, title and interest in and to each and every one of said inventions, each and every one of said applications (whether filed previously or in the future), and any and all U.S. and/or foreign patents that may be granted thereon or therefrom;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby memorializes that it has sold, assigned and set over to said Assignee any and all of his entire right, title and interest in and for the United States of America and all other countries in and to said inventions, including the right to claim priority, and the aforesaid applications for patent, all original, divisional, continuation, continuation-in-part, provisional, non-provisional, reexamination, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said applications resulting therefrom to PRINCETON IDENTITY, INC., as Assignee of the entire interest therein; and the undersigned for him and his legal representatives, heirs and assigns does hereby agree and covenant, without further remuneration, to execute and deliver all non-provisional, divisional, continuation, continuation-in-part, reexamination, reissue and other applications for patent on said inventions and all assignments and powers of attorney thereof to said Assignee or its assigns, to communicate to said Assignee or its legal representatives all facts known to the undersigned respecting said inventions, to testify in any *inter partes* reviews, post-grant reviews, derivation proceedings, covered business method patent reviews, interferences, or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths and to do generally everything necessary to aid said Assignee, its successors, assigns and nominees in obtaining patent protection on said inventions in all countries, the expenses incident to said applications to be borne and paid by said Assignee.

Date: 5 Oct 2018

By: [Signature]  
DAVID ALAN ACKERMAN

State of New Jersey County of Mercer

On this 5 day of October 2018, before me personally came the above-named DAVID ALAN ACKERMAN personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument as the individual who executed the foregoing instrument, who acknowledged to me the same was executed by him of his own free will for the uses and purposes therein expressed.

[Signature]  
Notary Public  
ME1 35327707v.4

AYSON BENTON  
Notary Public  
State of New Jersey  
My Commission Expires May 21, 2020  
**PATENT** 50016302

REEL: 047232 FRAME: 0938

# CONFIRMATORY ASSIGNMENT

WHEREAS, I, MICHAEL J. KIERNAN, a citizen of the United States, residing at 707 Baeder Road, Jenkintown, Pennsylvania 19046 (hereinafter "Assignor"), together with my co-inventors, ANDREW JAMES BOHL, DAVID ALAN ACKERMAN, BARRY E. MAPEN, CHRISTOPHER ROBERT MARTIN, and JOHN TIMOTHY GREEN have invented new and non-obvious inventions for which PCT International Application No. PCT/US2017/013110 was filed on January 12, 2017, (i) from which priority is claimed to U.S. Provisional Application No. 62/277,630 filed on January 12, 2016, and U.S. Provisional Application No. 62/295,554 filed on February 16, 2016, and (ii) to which priority is, and/or will in the future be, claimed directly and/or indirectly by U.S. and foreign applications, including, but not limited to, U.S. App. Nos. 15/661,188, 15/661,246, 15/661,267, 15/661,297, and 15/661,340, filed July 27, 2017, applications before the European Patent Office (and member countries), Japan, and South Korea, and any and all other patent applications filed at any time worldwide; and

WHEREAS, PRINCETON IDENTITY, INC., a corporation organized and existing under the laws of the State of Delaware and having a place of business at 300 Horizon Drive, Suite 304, Hamilton, New Jersey 08691 (referred to hereinafter as "Assignee"), is desirous of further memorializing acquisition of any and all of Assignor's entire right, title and interest in and to each and every one of said inventions, each and every one of said applications (whether filed previously or in the future), and any and all U.S. and/or foreign patents that may be granted thereon or therefrom;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, Assignor hereby memorializes that it has sold, assigned and set over to said Assignee any and all of his entire right, title and interest in and for the United States of America and all other countries in and to said inventions, including the right to claim priority, and the aforesaid applications for patent, all original, divisional, continuation, continuation-in-part, provisional, non-provisional, reexamination, substitute or reissue applications and patents applied for or granted therefor in the United States of America and all other countries, and the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all patents on said applications resulting therefrom to PRINCETON IDENTITY, INC., as Assignee of the entire interest therein; and the undersigned for him and his legal representatives, heirs and assigns does hereby agree and covenant, without further remuneration, to execute and deliver all non-provisional, divisional, continuation, continuation-in-part, reexamination, reissue and other applications for patent on said inventions and all assignments and powers of attorney thereof to said Assignee or its assigns, to communicate to said Assignee or its legal representatives all facts known to the undersigned respecting said inventions, to testify in any *inter partes* reviews, post-grant reviews, derivation proceedings, covered business method patent reviews, interferences, or other legal proceedings in which any of said applications or patents may become involved, to sign all lawful papers, make all rightful oaths and to do generally everything necessary to aid said Assignee, its successors, assigns and nominees in obtaining patent protection on said inventions in all countries, the expenses incident to said applications to be borne and paid by said Assignee.

Date: 7/13/2018

By: Michael J. Kiernan  
MICHAEL J. KIERNAN

State of Pennsylvania

County of Montgomery

On this 13<sup>th</sup> day of July 2018, before me personally came the above-named MICHAEL J. KIERNAN personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument as the individual who executed the foregoing instrument, who acknowledged to me the same was executed by him of his own free will for the uses and purposes therein mentioned.

Patricia A. Bennett  
Notary Public

PATRICIA A. BENNETT  
NOTARY PUBLIC OF NEW JERSEY  
My Commission Expires 10/1/2022

**PATENT**