

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3352900

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RICHARD PROHASKA	04/02/2015
BARRY PERLMAN	04/08/2015
ZARDOSHT KASHEFF	04/10/2015
YONATAN R. FOGEL	04/02/2015
MARTIN FARACH-COLTON	04/03/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TOKUTEK, INC.
<b>Street Address:</b>	57 BEDFORD STREET
<b>Internal Address:</b>	SUITE 101
<b>City:</b>	LEXINGTON
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	02420
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	12755391
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(410)234-2314
<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>	4106596402
<b>Email:</b>	gstone@wtplaw.com
<b>Correspondent Name:</b>	GREGORY M. STONE
<b>Address Line 1:</b>	7 SAINT PAUL STREET, SUITE 1300
<b>Address Line 2:</b>	WHITEFORD, TAYLOR & PRESTON, L.L.P.
<b>Address Line 4:</b>	BALTIMORE, MARYLAND 21202
<b>ATTORNEY DOCKET NUMBER:</b>	084399.00014
<b>NAME OF SUBMITTER:</b>	GREGORY M. STONE
<b>SIGNATURE:</b>	/gms/
<b>DATE SIGNED:</b>	05/14/2015

**Total Attachments: 10**

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source=Assign. B. Perlman#page1.tif

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source=Assign. Z. Kasheff#page1.tif

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source=Assign. Y.R. Fogel#page1.tif

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## ASSIGNMENT

This assignment, by Richard Prohaska (hereinafter the "assignor"), witnesseth:

WHEREAS, the assignor is the owner of a joint invention entitled "High-Performance Streaming Dictionary," as set forth in an application for Letters Patent of the United States filed 6 April 2010 and accorded serial number 12/755391, including any improvements thereto; and

WHEREAS, Tokutek, Inc., a Delaware corporation, having a principal place of business at 57 Bedford St. #101, Lexington, Massachusetts 02420 (hereinafter the "assignee"), agrees to accept the entire right and interest to said invention, said application, and to any and all income, from sales, licenses, or otherwise generated therefrom, in exchange for at least for its fees for prosecution of the application;

NOW, THEREFORE, for valuable consideration, receipt of which is hereby acknowledged by both assignee and assignor, the assignor hereby sells, assigns, transfers, and sets over, unto the assignee, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the abovementioned invention, application, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, reissues or extensions thereof, and reexamination certificates therefor, and to invoke and claim for any application for patent or other form of protection for said invention, the benefit of all rights under any and all international conventions and treaties for the protection of intellectual property, as may be amended, and by any convention or treaty which may henceforth be added or substituted therefor, the same to be held and enjoyed by the assignee, for its own use and behoof, and that of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, at least as fully and entirely as the same would have been held and enjoyed by the assignor had this transfer not been made.

AND for the same consideration, the said assignor hereby covenants and agrees to and with the said assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the said assignor is the lawful owner of the entire right, title, and interest in and to the said invention(s) and the application(s) and/or patent(s) above mentioned and hereby conveyed, and that the same are unencumbered, and that the said assignor has good and full right and lawful authority to sell, assign, transfer, set over, and otherwise convey the same.

AND for the same consideration, the said assignor hereby covenants and agrees to and with the said assignee, its successors, legal representatives, and assigns, whenever counsel of any of the same shall advise that any proceeding in connection with said invention(s), or said application(s) for Letters Patent, or any proceeding in connection with Letters Patent for said invention(s) in any country, including interference proceedings, is lawful and desirable, or that

any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent for said inventions in any country to be obtained thereon is lawful and desirable, that they shall sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done, and to cooperate in every way possible, for the procurement, maintenance, enforcement, and defense of Letters Patent for said inventions and for all other protection of the intellectual property, without charge to the assignee, its successors, legal representatives, and assigns, but at the cost and expense of the assignee, its successors, legal representatives, and assigns.

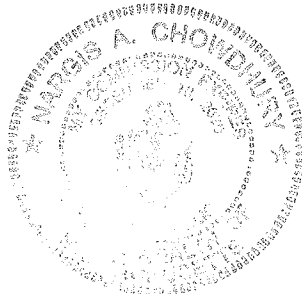
AND the said assignor hereby requests that the issuing authority, including the Commissioner of Patents in the United States, to issue said Letters Patent to and in the name of said assignee as the assignee of said invention(s) and the Letters Patent to be issued thereon for the sole use and behoof of the assignee, its successors, legal representatives, and assigns.

The assignor hereby consents and agrees that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose, and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefits provided under any and all conventions and treaties for the protection of intellectual property, as may be amended, brought into force, or substituted for any of the same.

Date: April 2 2015

Signature of Assignor: Richard Prohaska

Before me, a notary public in and for Lexington MIDDLESEX, MA  
(city or county, and state), personally appeared **Richard Prohaska**, to me known to be the person described in the foregoing instrument, who, being first duly sworn, acknowledged his signature on the same and in my presence and declared the same to be his free act and deed on the date written above opposite his signature.



Margis  
Notary Public  
My commission expires: 12/18/2020  
(SEAL)

## ASSIGNMENT

This assignment, by Barry Perlman (hereinafter the "assignor"), witnesseth:

WHEREAS, the assignor is the owner of a joint invention entitled "High-Performance Streaming Dictionary," as set forth in an application for Letters Patent of the United States filed 6 April 2010 and accorded serial number 12/755391, including any improvements thereto; and

WHEREAS, Tokutek, Inc., a Delaware corporation, having a principal place of business at 57 Bedford St. #101, Lexington, Massachusetts 02420 (hereinafter the "assignee"), agrees to accept the entire right and interest to said invention, said application, and to any and all income, from sales, licenses, or otherwise generated therefrom, in exchange for at least for its fees for prosecution of the application and for the indemnity contained herein;

NOW, THEREFORE, for valuable consideration, receipt of which is hereby acknowledged by both assignee and assignor, the assignor hereby sells, assigns, transfers, and sets over, unto the assignee, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the abovementioned invention, application, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, reissues or extensions thereof, and reexamination certificates therefor, and to invoke and claim for any application for patent or other form of protection for said invention, the benefit of all rights under any and all international conventions and treaties for the protection of intellectual property, as may be amended, and by any convention or treaty which may henceforth be added or substituted therefor, the same to be held and enjoyed by the assignee, for its own use and behoof, and that of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, at least as fully and entirely as the same would have been held and enjoyed by the assignor had this transfer not been made.

AND for the same consideration, the said assignor hereby covenants and agrees to and with the said assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the said assignor is the lawful owner of the entire right, title, and interest in and to the said invention(s) and the application(s) and/or patent(s) above mentioned and hereby conveyed, and that the same are unencumbered, and that the said assignor has good and full right and lawful authority to sell, assign, transfer, set over, and otherwise convey the same.

AND for the same consideration, the said assignor hereby covenants and agrees to and with the said assignee, its successors, legal representatives, and assigns, whenever counsel of any of the same shall advise that any proceeding in connection with said invention(s), or said application(s) for Letters Patent, or any proceeding in connection with Letters Patent for said invention(s) in any country, including interference proceedings, is lawful and desirable, or that any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of

any Letters Patent for said inventions in any country to be obtained thereon is lawful and desirable, that they shall sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done, and to cooperate in every way possible, for the procurement, maintenance, enforcement, and defense of Letters Patent for said inventions and for all other protection of the intellectual property, with all costs and expenses of assignor including but not limited to his attorney's fees paid by the assignee (including the cost of review of this Assignment by legal counsel), its successors, legal representatives and assigns, and compensating the assignor for assignor's time at the rate of \$500.00 per hour.

AND said assignee does indemnify and hold harmless the assignor for any and all claims for any cause, known or unknown, related to this patent or its use for any purpose or by any user whatsoever.

AND the said assignor hereby requests that the issuing authority, including the Commissioner of Patents in the United States, to issue said Letters Patent to and in the name of said assignee as the assignee of said invention(s) and the Letters Patent to be issued thereon for the sole use and behoof of the assignee, its successors, legal representatives, and assigns.

The assignor hereby consents and agrees that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose, and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefits provided under any and all conventions and treaties for the protection of intellectual property, as may be amended, brought into force, or substituted for any of the same.

Date: April 8, 2015 Signature of Assignor: [Signature] 4-8-15

Before me, a notary public in and for Cambridge, MA  
(city or county, and state), personally appeared **Barry Perlman**, to me known to be the person described in the foregoing instrument, who, being first duly sworn, acknowledged his signature on the same and in my presence and declared the same to be his free act and deed on the date written above opposite his signature.



Robert M. Prager  
NOTARY PUBLIC  
Commonwealth of Massachusetts  
My Commission Expires May 13, 2016

Notary Public  
My commission expires: 5-13-16  
(SEAL)

## ASSIGNMENT

This assignment, by Zardosht Kasheff (hereinafter the "assignor"), witnesseth:

WHEREAS, the assignor is the owner of a joint invention entitled "High-Performance Streaming Dictionary," as set forth in an application for Letters Patent of the United States filed 6 April 2010 and accorded serial number 12/755391, including any improvements thereto; and

WHEREAS, Tokutek, Inc., a Delaware corporation, having a principal place of business at 57 Bedford St. #101, Lexington, Massachusetts 02420 (hereinafter the "assignee"), agrees to accept the entire right and interest to said invention, said application, and to any and all income, from sales, licenses, or otherwise generated therefrom, in exchange for at least for its fees for prosecution of the application;

NOW, THEREFORE, for valuable consideration, receipt of which is hereby acknowledged by both assignee and assignor, the assignor hereby sells, assigns, transfers, and sets over, unto the assignee, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the abovementioned invention, application, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, reissues or extensions thereof, and reexamination certificates therefor, and to invoke and claim for any application for patent or other form of protection for said invention, the benefit of all rights under any and all international conventions and treaties for the protection of intellectual property, as may be amended, and by any convention or treaty which may henceforth be added or substituted therefor, the same to be held and enjoyed by the assignee, for its own use and behoof, and that of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, at least as fully and entirely as the same would have been held and enjoyed by the assignor had this transfer not been made.

AND for the same consideration, the said assignor hereby covenants and agrees to and with the said assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the said assignor is the lawful owner of the entire right, title, and interest in and to the said invention(s) and the application(s) and/or patent(s) above mentioned and hereby conveyed, and that the same are unencumbered, and that the said assignor has good and full right and lawful authority to sell, assign, transfer, set over, and otherwise convey the same.

AND for the same consideration, the said assignor hereby covenants and agrees to and with the said assignee, its successors, legal representatives, and assigns, whenever counsel of any of the same shall advise that any proceeding in connection with said invention(s), or said application(s) for Letters Patent, or any proceeding in connection with Letters Patent for said invention(s) in any country, including interference proceedings, is lawful and desirable, or that

any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent for said inventions in any country to be obtained thereon is lawful and desirable, that they shall sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done, and to cooperate in every way possible, for the procurement, maintenance, enforcement, and defense of Letters Patent for said inventions and for all other protection of the intellectual property, without charge to the assignee, its successors, legal representatives, and assigns, but at the cost and expense of the assignee, its successors, legal representatives, and assigns.

AND the said assignor hereby requests that the issuing authority, including the Commissioner of Patents in the United States, to issue said Letters Patent to and in the name of said assignee as the assignee of said invention(s) and the Letters Patent to be issued thereon for the sole use and behoof of the assignee, its successors, legal representatives, and assigns.

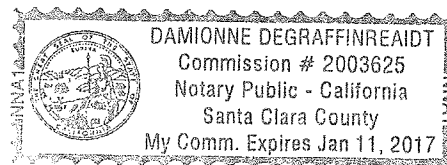
The assignor hereby consents and agrees that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose, and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefits provided under any and all conventions and treaties for the protection of intellectual property, as may be amended, brought into force, or substituted for any of the same.

Date: 4/10/2015

Signature of Assignor: [Signature]

Before me, a notary public in and for MENLO PARK, CALIFORNIA  
(city or county, and state), personally appeared **Zardosht Kasheff**, to me known to be the person described in the foregoing instrument, who, being first duly sworn, acknowledged his signature on the same and in my presence and declared the same to be his free act and deed on the date written above opposite his signature.

[Signature]  
Notary Public  
My commission expires: 01/11/2017  
(SEAL)





## ASSIGNMENT

This assignment, by Yonatan R. Fogel (hereinafter the "assignor"), witnesseth:

WHEREAS, the assignor is the owner of a joint invention entitled "High-Performance Streaming Dictionary," as set forth in an application for Letters Patent of the United States filed 6 April 2010 and accorded serial number 12/755391, including any improvements thereto; and

WHEREAS, Tokutek, Inc., a Delaware corporation, having a principal place of business at 57 Bedford St. #101, Lexington, Massachusetts 02420 (hereinafter the "assignee"), agrees to accept the entire right and interest to said invention, said application, and to any and all income, from sales, licenses, or otherwise generated therefrom, in exchange for at least for its fees for prosecution of the application;

NOW, THEREFORE, for valuable consideration, receipt of which is hereby acknowledged by both assignee and assignor, the assignor hereby sells, assigns, transfers, and sets over, unto the assignee, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the abovementioned invention, application, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, reissues or extensions thereof, and reexamination certificates therefor, and to invoke and claim for any application for patent or other form of protection for said invention, the benefit of all rights under any and all international conventions and treaties for the protection of intellectual property, as may be amended, and by any convention or treaty which may henceforth be added or substituted therefor, the same to be held and enjoyed by the assignee, for its own use and behoof, and that of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, at least as fully and entirely as the same would have been held and enjoyed by the assignor had this transfer not been made.

AND for the same consideration, the said assignor hereby covenants and agrees to and with the said assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the said assignor is the lawful owner of the entire right, title, and interest in and to the said invention(s) and the application(s) and/or patent(s) above mentioned and hereby conveyed, and that the same are unencumbered, and that the said assignor has good and full right and lawful authority to sell, assign, transfer, set over, and otherwise convey the same.

AND for the same consideration, the said assignor hereby covenants and agrees to and with the said assignee, its successors, legal representatives, and assigns, whenever counsel of

any of the same shall advise that any proceeding in connection with said invention(s), or said application(s) for Letters Patent, or any proceeding in connection with Letters Patent for said invention(s) in any country, including interference proceedings, is lawful and desirable, or that any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent for said inventions in any country to be obtained thereon is lawful and desirable, that they shall sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done, and to cooperate in every way possible, for the procurement, maintenance, enforcement, and defense of Letters Patent for said inventions and for all other protection of the intellectual property, without charge to the assignee, its successors, legal representatives, and assigns, but at the cost and expense of the assignee, its successors, legal representatives, and assigns.

AND the said assignor hereby requests that the issuing authority, including the Commissioner of Patents in the United States, to issue said Letters Patent to and in the name of said assignee as the assignee of said invention(s) and the Letters Patent to be issued thereon for the sole use and behoof of the assignee, its successors, legal representatives, and assigns.

The assignor hereby consents and agrees that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose, and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefits provided under any and all conventions and treaties for the protection of intellectual property, as may be amended, brought into force, or substituted for any of the same.

Date: 2015-04-02 Signature of Assignor: \_\_\_\_\_

Before me, a notary public in and for King County, State of Washington (city or county, and state), personally appeared **Yonatan R. Fogel**, to me known to be the person described in the foregoing instrument, who, being first duly sworn, acknowledged his signature on the same and in my presence and declared the same to be his free act and deed on the date written above opposite his signature.

Jonathan M. Bergeron  
Notary Public  
My commission expires: Nov. 9, 2015  
(SEAL)

## ASSIGNMENT

This assignment, by Martin Farach-Colton (hereinafter the "assignor"), witnesseth:

WHEREAS, the assignor is the owner of a joint invention entitled "High-Performance Streaming Dictionary," as set forth in an application for Letters Patent of the United States filed 6 April 2010 and accorded serial number 12/755391, including any improvements thereto; and

WHEREAS, Tokutek, Inc., a Delaware corporation, having a principal place of business at 57 Bedford St. #101, Lexington, Massachusetts 02420 (hereinafter the "assignee"), agrees to accept the entire right and interest to said invention, said application, and to any and all income, from sales, licenses, or otherwise generated therefrom, in exchange for at least for its fees for prosecution of the application;

NOW, THEREFORE, for valuable consideration, receipt of which is hereby acknowledged by both assignee and assignor, the assignor hereby sells, assigns, transfers, and sets over, unto the assignee, its successors, legal representatives, and assigns, the entire right, title, and interest in and to the abovementioned invention, application, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations, and continuations-in-part of said application, reissues or extensions thereof, and reexamination certificates therefor, and to invoke and claim for any application for patent or other form of protection for said invention, the benefit of all rights under any and all international conventions and treaties for the protection of intellectual property, as may be amended, and by any convention or treaty which may henceforth be added or substituted therefor, the same to be held and enjoyed by the assignee, for its own use and behoof, and that of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, at least as fully and entirely as the same would have been held and enjoyed by the assignor had this transfer not been made.

AND for the same consideration, the said assignor hereby covenants and agrees to and with the said assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the said assignor is the lawful owner of the entire right, title, and interest in and to the said invention(s) and the application(s) and/or patent(s) above mentioned and hereby conveyed, and that the same are unencumbered, and that the said assignor has good and full right and lawful authority to sell, assign, transfer, set over, and otherwise convey the same.


AND for the same consideration, the said assignor hereby covenants and agrees to and with the said assignee, its successors, legal representatives, and assigns, whenever counsel of any of the same shall advise that any proceeding in connection with said invention(s), or said

application(s) for Letters Patent, or any proceeding in connection with Letters Patent for said invention(s) in any country, including interference proceedings, is lawful and desirable, or that any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent for said inventions in any country to be obtained thereon is lawful and desirable, that they shall sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done, and to cooperate in every way possible, for the procurement, maintenance, enforcement, and defense of Letters Patent for said inventions and for all other protection of the intellectual property, without charge to the assignee, its successors, legal representatives, and assigns, but at the cost and expense of the assignee, its successors, legal representatives, and assigns.

AND the said assignor hereby requests that the issuing authority, including the Commissioner of Patents in the United States, to issue said Letters Patent to and in the name of said assignee as the assignee of said invention(s) and the Letters Patent to be issued thereon for the sole use and behoof of the assignee, its successors, legal representatives, and assigns.

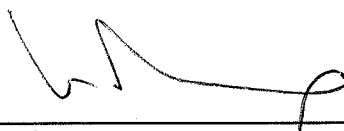
The assignor hereby consents and agrees that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose, and more particularly in proof of the right of the said assignee or nominee to claim the aforesaid benefits provided under any and all conventions and treaties for the protection of intellectual property, as may be amended, brought into force, or substituted for any of the same.

Date: 4/3/15

Signature of Assignor: 

Before me, a notary public in and for New York, NY, NY  
(city or county, and state), personally appeared **Martin Farach-Colton**, to me known to be the person described in the foregoing instrument, who, being first duly sworn, acknowledged his signature on the same and in my presence and declared the same to be his free act and deed on the date written above opposite his signature.

WALTER H. BOXER  
Notary Public, State of New York  
No. 02BO6142012  
Qualified in New York County  
Commission Expires March 13, 2018

  
Notary Public  
My commission expires: 3/13/18  
(SEAL)