505025157 07/27/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5071906

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANTONY PEGG	07/19/2018
DANIEL MANDLE	07/27/2018
MICHAEL WILLE	07/27/2018
CHRISTOPHER BENTON WOOD	07/27/2018
JEFF MEDAUGH	07/18/2018
MARC BERNARDINI	07/26/2018

RECEIVING PARTY DATA

Name:	MAPQUEST, INC.
Street Address:	1555 BLAKE STREET, 3RD FLOOR
City:	DENVER
State/Country:	COLORADO
Postal Code:	80202

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16048221

CORRESPONDENCE DATA

Fax Number: (801)812-8129

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: 801-285-5175 Email: alg@alg-ip.com

Correspondent Name: ALG INTELLECTUAL PROPERTY, LLC

Address Line 1: 10808 S. RIVER FRONT PARKWAY, SUITE 3100

Address Line 4: SOUTH JORDAN, UTAH 84095

ATTORNEY DOCKET NUMBER:	20180158
NAME OF SUBMITTER:	JEFFREY R. JEPPSEN
SIGNATURE:	/Jeffrey R. Jeppsen/
DATE SIGNED:	07/27/2018

Total Attachments: 6

PATENT REEL: 046493 FRAME: 0470

PATENT REEL: 046493 FRAME: 0471

DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Patent Application Title: Methods and Systems for Authenticating a Reported Geolocation of a Mobile Device the patent application for which: is being filed concurrently herewith, Application Number to be assigned by the USPTO, or was filed on _____ as United States Application Number ____ or PCT International Application Number Declaration of Inventor As the below named inventor, I hereby declare that: the above-identified application was made or authorized to be made by me; I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-referenced application; and I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both. Inventor Assignment Acknowledgement For good and valuable consideration, the receipt of which is hereby acknowledged, I agree as follows: A. I hereby assign to the Verizon legal entity identified below ("Assignee"), including its successors and assigns, my entire worldwide right, title and interest in and to any and all inventions and other ideas described in the above-identified patent application, as well as in and to said application and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional or other applications or registrations for Letters Patent which have been or shall be filed in the United States and all foreign countries based on any of said inventions or ideas, or based on or claiming priority to said application; and in and to all original and reissued Letters Patent which have been or shall be issued in the United States and foreign countries from any of said applications or registrations; and in and to all rights of priority resulting from the filing of any of said applications or registrations (all collectively, the "Patent Rights"). Letters Patent as used herein shall include, without limitation, patents, utility models, industrial designs, and any other form of industrial property recognized under the Paris Convention for the Protection of Industrial Property. B. I agree (i) that Assignee may apply for and receive Letters Patent based on the Patent Rights in its own name; (ii) that I will execute all rightful oaths, declarations, assignments, powers of attorney and other papers related to the Patent Rights when requested by Assignee (or its successors and/or assigns) without compensation (but at Assignee's expense),; (iii) that I appoint Assignee (acting through its representatives) as my attorney-in-fact, such appointment being irrevocable and coupled with the interest in the Patent Rights, with full authority in my place and stead and in my name to take any action and to execute any document which Assignee may deem reasonably necessary or advisable to accomplish the purposes of this assignment, including the execution and filing of the papers identified in part (ii) in my name where permitted by law; (iv) to communicate to Assignee, its successors, assigns, representatives and agents, all facts known to me relating to said Patent Rights and the history thereof; and (v) to generally do everything which Assignee, its successors, assigns, representatives or agents shall consider desirable for aiding in securing and maintaining proper protection for said Patent Rights and for vesting title to said Patent Rights in Assignee, its successors and assigns. I covenant with Assignee, its successors and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the Patent Rights has been made to others by me, and that full right to convey the same as set forth herein is possessed by me. ASSIGNEE: MapQuest, Inc., 1555 Blake Street, 3rd Floor, Denver, CO 80202 US IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have executed as set forth below: Full legal name of Inventor: Antony Pegg Address: 5900 Lemon St, East Petersburg, PA 17520 US

> PATENT REEL: 046493 FRAME: 0472

DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Patent Application Title: Methods and Systems for Authenticating a Reported Geolocation of a Mobile Device the patent application for which: is being filed concurrently herewith, Application Number to be assigned by the USPTO, or was filed on _____ as United States Application Number ____ or PCT International Application Number Declaration of Inventor As the below named inventor, I hereby declare that: the above-identified application was made or authorized to be made by me; I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-referenced application; and I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both. Inventor Assignment Acknowledgement For good and valuable consideration, the receipt of which is hereby acknowledged, I agree as follows: A. I hereby assign to the Verizon legal entity identified below ("Assignee"), including its successors and assigns, my entire worldwide right, title and interest in and to any and all inventions and other ideas described in the above-identified patent application, as well as in and to said application and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional or other applications or registrations for Letters Patent which have been or shall be filed in the United States and all foreign countries based on any of said inventions or ideas, or based on or claiming priority to said application; and in and to all original and reissued Letters Patent which have been or shall be issued in the United States and foreign countries from any of said applications or registrations; and in and to all rights of priority resulting from the filing of any of said applications or registrations (all collectively, the "Patent Rights"). Letters Patent as used herein shall include, without limitation, patents, utility models, industrial designs, and any other form of industrial property recognized under the Paris Convention for the Protection of Industrial Property. B. I agree (i) that Assignee may apply for and receive Letters Patent based on the Patent Rights in its own name; (ii) that I will execute all rightful oaths, declarations, assignments, powers of attorney and other papers related to the Patent Rights when requested by Assignee (or its successors and/or assigns) without compensation (but at Assignee's expense),; (iii) that I appoint Assignee (acting through its representatives) as my attorney-in-fact, such appointment being irrevocable and coupled with the interest in the Patent Rights, with full authority in my place and stead and in my name to take any action and to execute any document which Assignee may deem reasonably necessary or advisable to accomplish the purposes of this assignment, including the execution and filing of the papers identified in part (ii) in my name where permitted by law; (iv) to communicate to Assignee, its successors, assigns, representatives and agents, all facts known to me relating to said Patent Rights and the history thereof; and (v) to generally do everything which Assignee, its successors, assigns, representatives or agents shall consider desirable for aiding in securing and maintaining proper protection for said Patent Rights and for vesting title to said Patent Rights in Assignee, its successors and assigns. C. I covenant with Assignee, its successors and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the Patent Rights has been made to others by me, and that full right to convey the same as set forth herein is possessed by me. ASSIGNEE: MapQuest, Inc., 1555 Blake Street, 3rd Floor, Denver, CO 80202 US IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have executed as set forth below: Full legal name of Inventor: Daniel Mandle Address: 5737 Slick Rock Court, Boulder, CO 80301 US Signature: Pan March ______{Date:} ___07/27/2018

> PATENT REEL: 046493 FRAME: 0473

DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Patent Application Ti	tle: Methods and Systems for Authenticating a Repo	rted Geolocation of a Mobile Device
the patent application	for which:	no no national tara
is being filed cond	urrently herewith, Application Number to be assigne	d by the USPTO, or
was filed on	as United States Application Number	or PCT International Application
Number	 \$	

Declaration of Inventor

As the below named inventor, I hereby declare that:

- the above-identified application was made or authorized to be made by me;
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-referenced application; and
- I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.

Inventor Assignment Acknowledgement

For good and valuable consideration, the receipt of which is hereby acknowledged, I agree as follows:

- A. I hereby assign to the Verizon legal entity identified below ("Assignee"), including its successors and assigns, my entire worldwide right, title and interest in and to any and all inventions and other ideas described in the above-identified patent application, as well as in and to said application and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional or other applications or registrations for Letters Patent which have been or shall be filed in the United States and all foreign countries based on any of said inventions or ideas, or based on or claiming priority to said application; and in and to all original and reissued Letters Patent which have been or shall be issued in the United States and foreign countries from any of said applications or registrations; and in and to all rights of priority resulting from the filing of any of said applications or registrations (all collectively, the "Patent Rights"). Letters Patent as used herein shall include, without limitation, patents, utility models, industrial designs, and any other form of industrial property recognized under the Paris Convention for the Protection of Industrial Property.
- B. I agree (i) that Assignee may apply for and receive Letters Patent based on the Patent Rights in its own name; (ii) that I will execute all rightful oaths, declarations, assignments, powers of attorney and other papers related to the Patent Rights when requested by Assignee (or its successors and/or assigns) without compensation (but at Assignee's expense),; (iii) that I appoint Assignee (acting through its representatives) as my attorney-in-fact, such appointment being irrevocable and coupled with the interest in the Patent Rights, with full authority in my place and stead and in my name to take any action and to execute any document which Assignee may deem reasonably necessary or advisable to accomplish the purposes of this assignment, including the execution and filing of the papers identified in part (ii) in my name where permitted by law; (iv) to communicate to Assignee, its successors, assigns, representatives and agents, all facts known to me relating to said Patent Rights and the history thereof; and (v) to generally do everything which Assignee, its successors, assigns, representatives or agents shall consider desirable for aiding in securing and maintaining proper protection for said Patent Rights and for vesting title to said Patent Rights in Assignee, its successors and assigns.
- C. I covenant with Assignee, its successors and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the Patent Rights has been made to others by me, and that full right to convey the same as set forth herein is possessed by me.

ASSIGNEE: MapQuest, Inc., 1555 Blake Street, 3rd Floor, Denver, CO 80202 US

IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have executed as set forth below:

Full legal name of Inventor: Michael Wille

Address: 2539 Xandhia Gi, Denfer, GO 8023/ US

Date:

PATENT REEL: 046493 FRAME: 0474

DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Patent Application Title: Methods and Systems for Authenticating a Reported Geolocation of a Mobile Device
the patent application for which: is being filed concurrently herewith, Application Number to be assigned by the USPTO, or was filed on as United States Application Number or PCT International Application Number
<u>Declaration of Inventor</u>
As the below named inventor, I hereby declare that:
 the above-identified application was made or authorized to be made by me; I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-referenced application; and I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.
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A. I hereby assign to the Verizon legal entity identified below ("Assignee"), including its successors and assigns, my entire worldwide right, title and interest in and to any and all inventions and other ideas described in the above-identified patent application, as well as and to said application and all divisional, continuing (in whole or in part), substitute, renewal, reissue, provisional or other application or registrations for Letters Patent which have been or shall be filed in the United States and all foreign countries based on any of said inventions or ideas, or based on or claiming priority to said application; and in and to all original and reissued Letters Patent which have been or shall be issued in the United States and foreign countries from any of said applications or registrations; and in and to all right of priority resulting from the filing of any of said applications or registrations (all collectively, the "Patent Rights"). Letters Patent used herein shall include, without limitation, patents, utility models, industrial designs, and any other form of industrial proper recognized under the Paris Convention for the Protection of Industrial Property.
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ASSIGNEE: MapQuest, Inc., 1555 Blake Street, 3rd Floor, Denver, CO 80202 US
IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have execute as set forth below:
Full legal name of Inventor: Christopher Benton Wood
Address: 647 Gray Wolf Loop, Broomfield, CO 80023 US
Signature:

PATENT REEL: 046493 FRAME: 0475

DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

Patent Application Title: Methods and Systems for Authenticating a Reported Geolocation of a Mobile Device
the patent application for which: is being filed concurrently herewith, Application Number to be assigned by the USPTO, or was filed on as United States Application Number or PCT International Application Number
Declaration of Inventor
As the below named inventor, I hereby declare that:
 the above-identified application was made or authorized to be made by me; I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-referenced application; and I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. § 1001 by fine or imprisonment of not more than five (5) years, or both.
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Patent Rights has been made to others by me, and that full right to convey the same as set forth herein is possessed by me.
ASSIGNEE: MapQuest, Inc., 1555 Blake Street, 3rd Floor, Denver, CO 80202 US
IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have executed as set forth below:
Pull legal name of Inventor: Jeff Medaugh
Address: 6900 W Grant Banch Blvd Unit 70, Littleton, CO 80123 US
Signature: 7/18/2018

PATENT REEL: 046493 FRAME: 0476

VZ (Ascket No.: 20180158

DECLARATION AND ASSIGNMENT FOR PATENT APPLICATION

\$ 138 x 10 x 270 x 10 x
Patent Application Title: Methods and Systems for Ambenticating a Reported Geolocation of a Mobile Device
the patent application for which: is being filed concurrently herewith, Application Number to be assigned by the USPTO, or was filed onas United States Application Number or PCT International Application Number
Declaration of Inventor
As the below named inventor, I hereby declare that:
 the above-identified application was made or authorized to be made by me; I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-referenced application; and
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C. I covenant with Assignee, its successors and assigns, that no assignment, grant, mortgage, license, or other agreement affecting the Pateut Rights has been made to others by me, and that full right to convey the same as set forth herein is possessed by me.
ASSIGNEE: MapQuest, Inc., 1855 Blake Street, 3rd Floor, Denver, CO 80202 US
IN WITNESS to my agreement to the foregoing Declaration of Inventor and Inventor Assignment Acknowledgement, I have execute as set forth below:
Full legal name of Inventor: Marc Bernardini
Address: 4011 S.D. Jaware St. Bactewood, CO 80110 US Signature:

REEL: 046493 FRAME: 0477

PATENT

RECORDED: 07/27/2018