505268503 01/08/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5315275

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DECARTA LLC	04/21/2015

RECEIVING PARTY DATA

Name:	UBER TECHNOLOGIES, INC.
Street Address:	1455 MARKET STREET
City:	SAN FRANCISCO
State/Country:	CALIFORNIA
Postal Code:	94103

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	14831017	

CORRESPONDENCE DATA

Fax Number: (650)938-5200

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: 6503357107

Email:cmedina@fenwick.comCorrespondent Name:RAJENDRA B. PANWARAddress Line 1:FENWICK & WEST LLPAddress Line 2:801 CALIFORNIA STREET

Address Line 4: MOUNTAIN VIEW, CALIFORNIA 94041

ATTORNEY DOCKET NUMBER:	20662-29651/US
NAME OF SUBMITTER:	RAJENDRA B. PANWAR; REG NO 63165
SIGNATURE:	/Rajendra Panwar/
DATE SIGNED:	01/08/2019

Total Attachments: 13

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> PATENT REEL: 047935 FRAME: 0753

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PATENT REEL: 047935 FRAME: 0754

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, deCarta LLC, a Delaware Corporation, having a place of business at 4 North Second Street, Suite 950, San Jose, California 95113 ("ASSIGNOR"), has assigned and transferred and does hereby assign and transfer to Uber Technologies, Inc., a Delaware Corporation, having a place of business at 1455 Market Street, San Francisco, California 94103 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

- 1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the provisional or non-provisional application filed under 35 U.S.C. § 111, design application filed under 35 U.S.C. § 171, international application filed according to the Patent Cooperation Treaty (PCT), U.S. national phase application filed under 35 U.S.C. § 371, and any patents issuing thereon, as listed in the attached Schedule ("PATENT RIGHTS"); and;
- 2. The entire worldwide right, title, and interest in and to:
 (a) the PATENT RIGHTS, including any right of priority; (b) any provisional, divisional, continuation, substitute, renewal, reissue, and other related applications thereto which have been or may be filed in the United States or elsewhere in the world; (c) any patents which may be granted on the applications set forth in (a) and (b) above; and (d) the right to sue in its own name and to recover for past infringement of any or all of any applications or patents issuing therefrom together with all rights to recover damages for infringement of provisional rights.

ASSIGNOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all loaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titled and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER of the above-identified patent applications and Letters Patents; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER of the above-identified patent applications and Letters Patents and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. ASSIGNOR further agrees to provide any successor, transferee, assignee, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

ASSIGNOR represents that ASSIGNOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the ASSIGNOR has made or will make hereafter no assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

Duly Authorized Representative of ASSIGNOR

Axel Martinez

Manager deCarta LLC Date of Signature

21 April 2015

Duly Authorized Representative of ASSIGNEE

Ryan Graves

Vice President, Operations Uber Technologies, Inc. Date of Signature

April 21, 2015

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document

ACKNOWLED	GMENT
State of California County of San Francisco	
On <u>April 21, 2015</u>	before me, <u>Mooni Patel, Notary Public</u>
personally appeared Axel who proved to me on the basis of satisfactory evider subscribed to the within instrument and acknowledge his/her/their authorized capacity(ies), and that by his person(s), or the entity upon behalf of which the person certify under PENALTY OF PERJURY under the later than the series of	the to be the person(s) whose hame(s) israte ed to me that he/she/they executed the same in /he/their signature(s) on the instrument of the son(S) acted, executed the instrument.
paragraph is true and correct. WITNESS my hand and official seal Signature:	MOONI PATEL Commission # 2018297 Notary Public - California San Francisco County My Comm. Expires Apr 7, 2017

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document

ACKNOWLEDGMENT				
State of California County of San Francisco				
On April 21, 2415 before me, Mooni Patel, Notary Public				
personally appeared Pyn Graves who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/he/their signature(s) on the instrument of the person(s), or the entity upon behalf of which the person(S) acted, executed the instrument. I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing				
paragraph is true and correct. WITNESS my hand and official seal Witness my hand and official seal Signature: (Seal)				

SCHEDULE

TITLE	US SERIAL #	FILING DATE	US PATENT NUMBER	ISSUE DATE
Managing And Querying Moving Point Data	10012367	Dec 12, 2001	7010308	Mar 7, 2006
Method And Apparatus For Location-Sensitive, Subsidized Cell Phone Billing	09898497	Jul 5, 2001	7668765	Feb 23, 2010
Geocoding Locations Near A Specified City	11018566	Dec 20, 2004	7813873	Oct 12, 2010
Automated Prioritization Of Map Objects	11187638	Jul 22, 2005	8311737	Nov 13, 2012
High Precision Internet Local Search	11608791	Dec 8, 2006	8219578	Jul 10, 2012
Generalization Of Features in A Digital Map	11460226	Jul 26, 2006	7859536	Dec 28, 2010
User Interface To Aid System Installation	10726982	Dec 3, 2003	7221267	May 22, 2007
System And Method Of Optimizing Database Queries In Two Or More Dimensions	08807471	Feb 27, 1997	5963956	Oct 5, 1999
Draggable Maps	11706065	Feb 13, 2007		
System And Method Of Optimizing Database Queries In Two Or More Dimensions	09231515	Jan 14, 1999	6470287	Oct 22, 2002
System And Method Of Optimizing Database Queries In Two Or More Dimensions	10278126	Oct 22, 2002	7035869	Apr 25, 2006
System And Method Of Optimizing Database Queries In Two Or More Dimensions	11385625	Mar 20, 2006	7725425	May 25, 2010
Dynamically Configured Rendering Of Digital Maps	11865720	Oct 1, 2007	8990288	Mar 24, 2015
Generalization Of Features In A Digital Map Using Round Number Coordinates	12187341	Aug 6, 2008	8243060	Aug 14, 2012
Retrieval Of Vehicular Traffic Information Optimized For Wireless	12416812	Apr 1, 2009	8489324	Jul 16, 2013

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PATENT REEL: 047935 FRAME: 0759

TITLE	US SERIAL #	FILING DATE	US PATENT NUMBER	ISSUE DATE
Mobile Environments				
Point Of Interest Search Along A Route	12936128	Apr 1, 2009		
Transmission Of Routes Between Client And Server Using Route IDs	12416920	Apr 1, 2009	8260549	Sep 4, 2012
Geocoding Locations Near A Specified City	12881366	Sep 14, 2010		
Point Of Interest Search Along A Route With Return	13246201	Sep 27, 2011	8401786	Mar 19, 2013
High Precision Internet Local Search	13532437	Jun 25, 2012		
Transmission Of Routes Between Client And Server Using Route IDs	13602295	Sep 3, 2012	8706391	Apr 22, 2014
Point of Interest Search Along a Route with Return	13748065	Jan 23, 2013		
Location Searching with Category Indices	14033328	Sep 20, 2013		
Systems and Methods for Performing Search and Retrieval of Electronic Documents Using a Big Index	13468979	May 10, 2012		
Systems and Methods for Performing Geo-Search and Retrieval of Electronic Point-of-Interest Records Using a Big Index	14136179	Dec 20, 2013		
Systems and Methods for Performing Geo-Search and Retrieval of Electronic Point-of-Interest Records Using a Big Index	13690856	Nov 30, 2012		
Client: Locating and User Discovery System	60/254,922	Dec 13, 2000		

			US PATENT	
TITLE	US SERIAL #	FILING DATE	NUMBER	ISSUE DATE
Method and Apparatus for Location-Sensitive, Subsidized Cell Phone Billing	60/216,728	Jul 7, 2000		
Geocoding Locations Near a Specified City	60/530,935	Dec 19, 2003		
Automated Prioritization of Map Objects	60/590,667	Jul 23, 2004		
High Precision Internet Local Search	60/749,013	Dec 8, 2005		
Generalization of Features in a Digital Map	60/702,778	Jul 26, 2005		
Architecture for Draggable Maps	60/773,287	Feb 13, 2006		
Dynamic Web-Based Map Rendering Configurations	60/827,665	Sep 29, 2006		
Generalization of Features in a Digital Map Using Round Number Coordinates	60/954,094	Aug 6, 2007		

TITLE	US SERIAL#	FILING DATE	US PATENT NUMBER	ISSUE DATE
Retrieval of Vehicular Traffic Information Optimized for Wireless Mobile Environments	61/041,595	Apr 1, 2008		
Point Of Interest Search Along A Route	61/041,496	Apr 1, 2008		
Transmission Of Routes Between Client and Server Using Route IDs	61/041,499	Apr 1, 2008		
BigIndex Search Engine	61/484,298	May 10, 2011		

COUNTRY	TITLE	SERIAL#	FILING DATE	PATENT NUMBER	ISSUE DATE
Australia	Geocoding Locations Near A Specified City	2004308385	Dec 20, 2004	2004308385	Oct 14, 2010
Europe	Geocoding Locations Near A Specified City	048151369	Dec 20, 2004	1704387	Mar 27, 2013
Europe validated in DE	Geocoding Locations Near A Specified City	048151369	Dec 20, 2004	602004041524.3	Mar 27, 2013
Europe validated in FR	Geocoding Locations Near A Specified City	048151369	Dec 20, 2004	1704387	Mar 27, 2013
Europe validated in GB	Geocoding Locations Near A Specified City	048151369	Dec 20, 2004	1704387	Mar 27, 2013
Europe validated in NL	Geocoding Locations Near A Specified City	048151369	Dec 20, 2004	1704387	Mar 27, 2013
China	Automated Prioritization Of Map Objects	2005800302778	Jul 22, 2005	ZL200580030277.8	May 9, 2012
Europe	Automated Prioritization Of Map Objects	057755290	Jul 22, 2005	1776560	Nov 30, 2011
Europe validated in DE	Automated Prioritization Of Map Objects	057755290	Jul 22, 2005	1776560	Nov 30, 2011
Europe validated in GB	Automated Prioritization Of Map Objects	057755290	Jul 22, 2005	1776560	Nov 30, 2011
China	High Precision Internet Local Search	2006800522880	Dec 8, 2006	ZL 200680052288.0	Jan 4, 2012
China	Generalization Of Features In A Digital Map	2006800349088	Jul 26, 2006	ZL 200680034908.8	Jul 4, 2012
Europe	Generalization Of Features In A Digital Map	067889667	Jul 26, 2006	1917643	Nov 23, 2011

			FILING		ISSUE
COUNTRY	TITLE	SERIAL #	DATE	PATENT NUMBER	DATE
Europe validated in DE	Generalization Of Features In A Digital Map	6020060260377	Jul 26, 2006	1917643	Nov 23, 2011
Europe validated in GB	Generalization Of Features In A Digital Map	067889667	Jul 26, 2006	1917643	Nov 23, 2011
Australia	Point Of Interest Search Along A Route With Return	2009343389	Apr 1, 2009		
Canada	Point Of Interest Search Along A Route With Return	2757148	Apr 1, 2009		
China	Point Of Interest Search Along A Route With Return	2009801596086	Apr 1, 2009		
Europe	Point Of Interest Search Along A Route With Return	098424906	Apr 1, 2009		
Korea	Point Of Interest Search Along A Route With Return	1020117025842	Apr 1, 2009	:	
Australia	A System And Method Of Optimizing Database Queries In Two Or More Dimensions	6335798	Feb 25, 1998	733949	Sep 13, 2001
Canada	A System And Method Of Optimizing Database Queries In Two Or More Dimensions	2282022	Feb 25, · 1998	2282022	Feb 14, 2006

COUNTRY	TITLE	SERIAL#	FILING DATE	PATENT NUMBER	ISSUE DATE
Europe	A System And Method Of Optimizing Database Queries In Two Or More Dimensions	989075916	Feb 25, 1998	0974108	Jan 16, 2013
Europe validated in DE	A System And Method Of Optimizing Database Queries In Two Or More Dimensions	989075916	Feb 25, 1998	698 42 944.3	Jan 16, 2013
Europe validated in FR	A System And Method Of Optimizing Database Queries In Two Or More Dimensions	989075916	Feb 25, 1998	0974108	Jan 16, 2013
Europe validated in GB	A System And Method Of Optimizing Database Queries In Two Or More Dimensions	989075916	Feb 25, 1998	0974108	Jan 16, 2013
Europe validated in NL	A System And Method Of Optimizing Database Queries In Two Or More Dimensions	989075916	Feb 25, 1998	0974108	Jan 16, 2013
Japan	A System And Method Of Optimizing Database Queries In Two Or More Dimensions	1998537755	Feb 25, 1998	4231943	Dec 19, 2008

COUNTRY	TITLE	SERIAL#	FILING DATE	PATENT NUMBER	ISSUE DATE
Taiwan China	System And Method Of Optimizing Database Queries in Two Or More Dimensions Method for	87102772 2007800124549	Feb 26, 1998 Feb 13,	120340 ZL200780012454.9	Sep 11, 2000 Nov 23,
	Rendering a Digital Map and Tiles Therein.		2007		2011
Europe	Draggable Maps	077505261	Feb 13, 2007		
Australia	Dynamically Configured Rendering Of Digital Maps	2007303470	Oct 1, 2007	2007303470	Oct 11, 2012
China	Dynamically Configured Rendering Of Digital Maps	2007800439888	Oct 1, 2007		
Europe	Dynamically Configured Rendering Of Digital Maps	078537263	Oct 1, 2007		
Canada	Point Of Interest Search Along A Route	2719702	Apr 1, 2009		
China	Point Of Interest Search Along A Route	2009801185125	Apr 1, 2009		
Europe	Point Of Interest Search Along A Route	097266076	Apr 1, 2009		
Hong Kong	Point Of Interest Search Along A Route	111074159	Apr 1, 2009		
Australia	Transmission Of Routes Between Client And Server Using Route IDs	2009251839	Apr 1, 2009		

COUNTRY	TITLE	SERIAL#	FILING DATE	PATENT NUMBER	ISSUE DATE
China	Transmission Of Routes Between Client And Server Using Route IDs	2009801159756	Apr 1, 2009	ZL200980115975.6	Apr 9, 2014
Europe	Transmission Of Routes Between Client And Server Using Route IDs	097551956	Apr 1, 2009		
Hong Kong	Transmission Of Routes Between Client And Server Using Route IDs	111057454	Apr 1, 2009	HK1151848	Sep 5, 2014
China	High Precision Internet Local Search	2010102425192	Dec 8, 2006		
China	Automated Prioritization Of Map Objects	201110026386X	Jul 22, 2005		
РСТ	Location Searching with Category Indices	PCTIB2014064359	Sep 10, 2014		
Australia	Point Of Interest Search Along A Route	2014280972	Apr 1, 2009		
Europe	Systems and Methods for Performing Search and Retrieval of Electronic Documents Using a Big Index	127244432	May 10, 2012		
Europe	Systems and Methods for Performing Geo- Search and Retrieval of Electronic Point- of-Interest Records Using a Big Index	128165461	Nov 30, 2012		