

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	METACARTA, INCORPORATED	04/09/2010
RECEIVING PARTY DATA		
Name:	Nokia Corporation	
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City:	Espoo	
State/Country:	FINLAND	
Postal Code:	FIN-02150	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15226155
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ATTORNEY DOCKET NUMBER:	042933/481669	
NAME OF SUBMITTER:	GUY R. GOSNELL	
SIGNATURE:	/Guy R. Gosnell/	
DATE SIGNED:	08/05/2016	
Total Attachments: 13		
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Execution Version

Patent Assignment

MetaCarta, Incorporated, a Delaware corporation, with offices at 350 Massachusetts Avenue, Cambridge, MA (herein referred to as "Assignor") hereby acknowledges that pursuant to the Asset Purchase and Sale Agreement by and among Assignor, Nokia Inc., a Delaware corporation, with offices at 102 Corporate Park Drive, White Plains, NY 10604, and Nokia Corporation, a company incorporated in Finland, with registered offices at Keilalahdentie 2-4, 02150 Espoo, Finland, and its successors, assigns and legal representatives (herein referred to as "Assignee"), executed on April 9, 2010 (the "Asset Purchase Agreement"), Assignor sells, assigns, transfers, and sets over unto Assignee:

(1) its entire right, title and interest in, to, and under the patents and patent applications, and any and all inventions, discoveries and applications that are disclosed in these patents and patent applications, for the United States and in all countries, as identified in Schedule A attached to this Patent Assignment (herein referred to as the "Patents"), and including any and all divisional, continuation, continuation-in-part, conversion, renewal, reissue, reexamination, revival, extension, and any substitute application based upon the Patents, and any patent and reexamination certificate issuing from any divisional, continuation, continuation-in-part, conversion, renewal, reissue, reexamination, revival, extension, and any substitute application based upon the Patents; (2) the full and complete right to file patent applications in the name of the Assignee, its designee, or its designee's election, in all countries of the world, on the aforesaid Patents and any inventions, discoveries and applications disclosed in the Patents; (3) the entire right, title and interest in and to any patents that may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; (4) the entire right, title and interest in all convention and treaty rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the Patents and the inventions, discoveries and applications that are disclosed in the Patents; (5) any and all claims, demands, causes of action, damages, and remedies of every kind recoverable at law or in equity or otherwise from any and every party for any and every infringement of any of the Patents and any patents that may issue thereon together with the rights to bring and maintain any action for past, present, and future acts of infringements and for the recovery of damages and fees in the United States or in any country; and (6) all rights, title, and interest evidenced by or embodied in or connected or related to the foregoing, together with all revisions, enhancements, modifications and derivative works thereof, including without limitation all intellectual property rights therein and documentation related thereto.

Assignor hereby authorizes and requests the competent authorities to grant and to issue any and all patents that may issue from the Patents in the United States and throughout the world to the Assignee of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by Assignor had this assignment, sale 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 any of the inventions and discoveries disclosed in the Patents, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any patent issuing on the Patents, and any divisionals, continuations, continuations-in-part, conversions, renewals, reissues, reexaminations, revivals, extensions, and any substitute applications based upon the Patents.

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

Assignor hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this Patent Assignment.

Assignor further covenants that Assignee will, upon its request, be provided promptly with all pertinent facts and documents relating to the Patents and any patents issuing therefrom and legal equivalents thereto as may be known and accessible to Assignor and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce the Patents and any patents issuing therefrom and said equivalents thereof that may be necessary or desirable to carry out the purposes thereof.

This Patent Assignment is delivered pursuant to the Asset Purchase Agreement and is subject to the conditions and covenants provided therein. Nothing contained herein shall itself change, amend, extend or alter the terms or conditions of the Asset Purchase Agreement in any manner whatsoever.

ASSIGNOR: METACARTA, INCORPORATED

Date: 4/9/10

[Signature]
Signature
Name: Doug Brenhouse
Title: Vice-President

On this the 9th day of April, 2010, before me, Grace Lang, the undersigned Notary Public, personally appeared Douglas Brenhouse, proved to me through satisfactory evidence of identity, which was/were Drivers License to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he/she signed it voluntarily for its stated purpose, as Vice President of Assignor.

Grace M Lang
Signature of Notary Public
Grace M Lang
Printed Name of Notary

SEAL

My Commission Expires: 8/20/10



GRACE M. LANG
Notary Public
Commonwealth of Massachusetts
My Commission Expires
August 20, 2010

ASSIGNEE: NOKIA CORPORATION

Date: 12 April 2010

Signature

Name: Markus Huiskonen

Title: DIRECTOR, LEGAL

Date: 12 April 2010

Signature

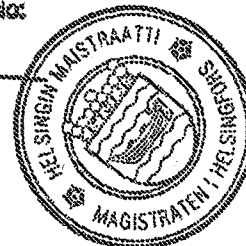
Name: Laura Ohts

Title: Legal Counsel

Markus Huiskonen and
This is to certify that Laura Ohts
is/are legally authorized to sign on behalf of
Nokia Corporation
and he/she has/they have signed this
document in my presence.
Helsinki Ex officio:

12.04.2010

PAULA OJANEN
Notary Public



SCHEDULE A

MetaCarta, Incorporated
List of Patents and Patent Applications

Docket No.	Serial No.	Title	Filing Date	Type	Non-US Country Filed/PCT	Description	Prognosis
121US1	Issued U.S. 7,117,199	Spatially Coding and Displaying Information	2/22/2001	PCT	Canada (2400161) Europe (01925106.5) Japan (2001-562372)	A free-text geographical query system for searching a corpus of documents.	Patent issued in U.S.
121US2	Issued U.S. 7,596,581	Relevance Ranking of Spatially Coded Documents	11/17/2004	DIV		Determining a score for the relevance of a document to a geographic location identified in a query.	Patent issued in U.S.
121US3	Issued U.S. 7,539,693	Spatially Directed Crawling of Documents	11/17/2004	DIV		Using a spatial relevance level determined by parsing documents in a queue to prioritize the queue and prioritize the search for new documents.	Patent issued in U.S.
121US4	11/147033	Searching by Using Spatial Document and Spatial Keyword Document Indexes	06/07/2004	DIV		Searching a corpus of documents for spatial information by using an intersection of a spatial document index and a spatial keyword index.	Office Action Response due 12/12/09 (3 rd & final extension)

Docket No.	Serial No.	Title	Filing Date	Type	Non-US Country Filed/PCT	Description	Prognosis
121US5	11/537815	Geotext Searching and Displaying Results	10/02/2006	CON		In response to a search query that includes free text, displaying visual indicators of responsive documents at spatial locations on a map that correspond to spatial information within those documents.	Office Action Response due 05/23/09 (3rd & final extension)
121US6	11/929706	Method for Defining the Georelevance of Documents	10/30/2007	CON		Scoring documents according to their degree of association with a spatial identifier mentioned in the document.	Awaiting 1st Office Action
121US7	11/929710	A Query Parser Method	10/30/2007	CON		Identifying documents that have location-related information that is responsive to a free text query that includes keywords.	Awaiting 1st Office Action
121US8	11/929715	A Method of Inferring Spatial Meaning to Text	10/30/2007	CON		Analyzing a document to identify associations between a text string in a document and a known spatial identifier in the document	Awaiting 1st Office Action
121US9	11/929721	A Method Involving Electronic Notes and Spatial Domains	10/30/2007	CON		Posting and publishing an electronic note that is associated with a domain in a metric.	Awaiting 1st Office Action

Docket No.	Serial No.	Title	Filing Date	Type	Non-US Country Filed/PCT	Description	Prognosis
121US10	11/929725	A Query Method Involving More Than One Corpus of Documents	10/30/2007	CON		Searching more than one corpus of documents with free text queries and merge sorting the results into a document result set ordered in relevance.	Awaiting 1st Office Action
121US11	11/929731	Geospatial Method that Provides for Collaboration	10/30/2007	CON		Searching a spatial domain that is represented as a multi-dimensional representation; in response to a search query, displaying in the representation the search results and information about the searches of other users.	Awaiting 1st Office Action
121US12	11/929738	Spatial Indexing of Documents	10/30/2007	CON		From a set of files, selecting, storing, and displaying files that contain spatial information.	Awaiting 1st Office Action
123US2	Issued U.S. 7,599,988	Desktop Client Interaction with a Geographical Text Search System	08/04/2003	ORD	Canada (2495560) Australia (2003258037) European (03767153.4) Japan (2004-526404)	Geolocation service that retrieves documents and queries that include free text, and returns responsive geolocation information, including spatial identifiers and spatial coordinates identified within the documents.	Patent Issued in U.S.

Docket No.	Serial No.	Title	Filing Date	Type	Non-US Country Filed/PCT	Description	Prognosis
124US2	10/803831	Corpus Clustering, Confidence Refinement, and Ranking for Geographic Text Search and Information Retrieval	03/18/2004	ORD	Canada (2519236) Australia (2004220880) Europe (04757619.4) Japan (2006-507322) Hong Kong (06106549.7)	Identifying and using geo-textual correlations between readings of toponyms to generate a confidence value that a toponym refers to a corresponding geographic location.	Office Action Response Due 02/21/10 10 (3rd & final extension)
127US2	11/427165	User Interface for Geographic Search	06/28/2006	ORD	Europe (06774239.5) Canada (2613782) Australia (2006263703) Hong Kong (08110853.6)	Decomposing a free-text query into a non-geographic free-text query and a geographic query that is a geographic location description.	Office Action Response Due 04/22/10 10 (3rd & final extension)
127US3	12/166,809	User Interface for Geographic Search	07/02/2008	DIV	Divisional of 11/427165		Office Action Response Due 03/16/10 (3rd & final extension)

Docket No.	Serial No.	Title	Filing Date	Type	Non-US Country Filed/PCT	Description	Prognosis
128US2	11/705368 (US2)	Systems and Methods for Spatial Thumbnails and Companion Maps for Media Objects	02/12/2007	ORD	Europe (07750597.2) Canada (2641986) Australia (2007215162) Japan (2008-554423) Hong Kong (09104799.6)	Displaying a summary and a spatial thumbnail of a media object that is associated with location-related content.	Office Action Response Due 02/10/10 (3rd & final extension)
128US3	11/705269 (US3)	Systems and Methods for Spatial Thumbnails and Companion Maps for Media Objects	02/12/2007	ORD		In response to a query, displaying a summary and a spatial thumbnail of media object that is responsive to the query.	Office Action Response Due 03/21/10 (3rd & final extension)
129US2	11/818066	Systems and Methods for Hierarchical Organization and Presentation of Geographic Search Results	06/12/2007	ORD		In response to search criteria including a free text query and a domain identifier, generating and displaying a hierarchical graph structure of document-location tuples that satisfy the search criteria.	Office Action Response Due 01/23/10 (3rd & final extension)

Docket No.	Serial No.	Title	Filing Date	Type	Non-US Country Filed/PCT	Description	Prognosis
129US3	11/818074	Systems and Methods for Providing Statistically Interesting Geographical Information Based on Queries to a Geographic Search Engine	06/12/2007	ORD		In response to search criteria including a free text query and a domain identifier as well as an additional query, displaying both a visual representation of a hierarchical document-tuple graph that satisfy the search criteria and results for the additional query.	Office Action Response Due 02/06/10 (3rd & final extension)
129US4	11/811976	Systems and methods for Generating and Correcting Location References Extracted from Text	06/12/2007	ORD		Displaying on a map visual indicators representing location-related information within documents and displaying a document with visual indicators representing location references within the document.	Awaiting 1st Office Action
130US2	11/834538	Systems and Methods for Presenting Results of Geographic Text Searches	08/06/2007	ORD		Generating a set of document-location tuples that satisfy search criteria that include a free-text query and a domain identifier and displaying a visual representation of the domain with a subset of the tuples.	Office Action Response Due 02/24/10 (3rd & final extension)

Docket No.	Serial No.	Title	Filing Date	Type	Non-US Country Filed/PCT	Description	Prognosis
130US3	11/834563	Systems and Methods for Presenting Results of Geographic Text Searches	08/06/2007	ORD		Generating a set of document-location tuples that satisfy search criteria that include a free-text query and a domain identifier and displaying a visual representation of the domain with a subset of the tuples.	Office Action Response Due 02/24/10 (3rd & final extension)
130US4	11/834566	Systems and Methods for Presenting Results of Geographic Text Searches	08/06/2007	ORD		Generating a set of document-location tuples that satisfy search criteria that include a free-text query and a domain identifier and displaying a visual representation of the domain with a subset of the tuples.	Office Action Response Due 03/08/10 (3rd & final extension)
130US5	11/834584	Systems and Methods for Presenting Results of Geographic Text Searches	08/06/2007	ORD		Generating a set of document-location tuples that satisfy search criteria that include a free-text query and a domain identifier and displaying a visual representation of the domain with a subset of the tuples.	Office Action Response Due 03/09/10 (3rd & final extension)
130US6	11/834594	Systems and Methods for Obtaining and Using Information from Map Images	08/06/2007	ORD		Displaying an image of a region of a metric vector space and obtaining and displaying a set of pixel extents in the image that contain apparent textual annotations.	Awaiting 1st Office Action

Docket No.	Serial No.	Title	Filing Date	Type	Non-US Country Filed/PCT	Description	Prognosis
130US7	11/834598	Systems and Methods for Obtaining and Using Information from Map Images	08/06/2007	ORD		Displaying an image of a region of a metric vector space and obtaining and displaying a set of pixel extents in the image that contain apparent textual annotations.	Office Action Response Due 04/29/10 (3rd & final extension)
130US8	11/834600	Systems and Methods for Obtaining and Using Information from Map Images	08/06/2007	ORD		Displaying an image of a region of a metric vector space and obtaining and displaying a set of pixel extents in the image that contain apparent textual annotations.	Awaiting 1st Office Action
131US2	11/857987	Systems and Methods for Presenting Results of Geographic Text Searches	09/19/2007	CIP		In response to search criteria including a free text query and a domain identifier, dividing the domain into subdomains, obtaining a set of responsive subdomain document-location tuples and displaying a visual representation of the domain and visual indicators representing the tuples for the identifiers within one or more subdomains.	Office Action Response Due 03/17/10 (3rd & final extension)

Docket No.	Serial No.	Title	Filing Date	Type	Non-US Country Filed/PCT	Description	Prognosis
132US2	11/932438	Systems and Methods for Predictive Models Using Geographic Text Search	10/31/2007	ORD		Generating a predictive model from search criteria that include information identifying a past event, a domain identifier in which the event occurred, and a time period preceding the past event by statistically analyzing sets of document-location-time tuples to find information that precedes and correlates with the past event.	Awaiting 1st Office Action
134US2	11/963451	Methods of Systems Using Geographic Metadata in Information Retrieval and Document Displays	12/21/2007	ORD	PCT (US07/088737); Title: Article Mapper with Geographic Search Enhancements	In response to search criteria that include a domain identifier and a filter condition specifying a geometric relationship between co-referenced locations, searching and identifying documents that contain information related to a location within the domain and satisfy the filter condition.	Awaiting 1st Office Action

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