

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

Assignment ID: PATI304939

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
LONGHORN ACQUISITION, LLC	12/07/2011
RECEIVING PARTY DATA	
Company Name:	TELECOMMUNICATION SYSTEMS, INC.
Street Address:	275 WEST STREET
Internal Address:	SUITE 400
City:	ANNAPOLIS
State/Country:	MARYLAND
Postal Code:	21401
PROPERTY NUMBERS Total: 1	
Property Type	Number
Patent Number:	8364170
CORRESPONDENCE DATA	
Fax Number:	2168770300
<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>	
Phone:	2168770300
Email:	jyirga@wattslaw.com
Correspondent Name:	John Andrew Yirga
Address Line 1:	2337 W. 11th Street
Address Line 2:	Suite 2
Address Line 4:	CLEVELAND, OHIO 44113
ATTORNEY DOCKET NUMBER:	COMT-195295
NAME OF SUBMITTER:	John Yirga
SIGNATURE:	John Yirga
DATE SIGNED:	06/18/2024
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 14	
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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT4026312

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		
CONVEYING PARTY DATA			
Name			Execution Date
LONGHORN ACQUISITION, LLC			12/07/2011
RECEIVING PARTY DATA			
Name:	TELECOMMUNICATION SYSTEMS, INC.		
Street Address:	275 WEST STREET		
Internal Address:	SUITE 400		
City:	CLEVELAND		
State/Country:	OHIO		
Postal Code:	44114		
PROPERTY NUMBERS Total: 1			
Property Type	Number		
Application Number:	11437041		
CORRESPONDENCE DATA			
Fax Number:	(216)621-4072		
<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>			
Phone:	216.621.2234		
Email:	rkline@tarolli.com		
Correspondent Name:	CHRISTOPHER P. HARRIS		
Address Line 1:	TAROLLI, SUNDHEIM, COVELL & TUMMINO, LLP		
Address Line 2:	1300 EAST NINTH STREET, SUITE 1700		
Address Line 4:	CLEVELAND, OHIO 44114		
ATTORNEY DOCKET NUMBER:	TCS025103 US ORD		
NAME OF SUBMITTER:	CHRISTOPHER P. HARRIS		
SIGNATURE:	/Christopher P Harris/		
DATE SIGNED:	08/26/2016		
Total Attachments: 12			
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ASSIGNMENT AND AGREEMENT

THIS PATENT ASSIGNMENT (this "Assignment") is by and between **Longhorn Acquisition, LLC**, a corporation in the State of **Maryland**, having an office at 275 West Street, Suite 400, Annapolis, Maryland, 21401, U.S.A., (**ASSIGNOR**) and **TeleCommunication Systems, Inc.**, a corporation of the State of **Maryland**, having an office at 275 West Street, Suite 400, Annapolis, Maryland, 21401, U.S.A (**ASSIGNEE**).

RECITALS

- A. WHEREAS, **ASSIGNOR** presently owns or controls certain patents listed in the attached Exhibit A (hereinafter "**TRADEMARKS**"), Exhibit B (hereinafter "**COPYRIGHTS**"), and Exhibit C (hereinafter "**PATENTS**") respectively and;
- B. WHEREAS, **ASSIGNOR** desires to transfer, assign, convey, deliver, and vest all of its interests and rights in **TRANSFERRED, TRADEMARKS, COPYRIGHTS, and PATENTS** for all countries, jurisdictions and political entities of the world, to and in **TeleCommunication Systems, Inc.**

NOW, THEREFORE, in consideration of good and valid consideration, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, agree as follows:

ASSIGNOR, subject to existing rights and licenses of third parties, does hereby assign, convey and transfer and deliver, and agrees to assign, convey, transfer and deliver to **TeleCommunication Systems, Inc.**, its successors, assigns and legal representatives or nominees, **ASSIGNOR'S** entire right title and interest, for all countries, jurisdictions and political entities of the world, along with the right to sue for past infringement to all **TRANSFERRED, TRADEMARKS, COPYRIGHTS, and PATENTS**, and corresponding counterpart foreign applications and patent applications, with respect to which, and to the extent to which, **ASSIGNOR** now has or hereafter the right to so assign, convey, transfer and deliver. **TeleCommunication Systems, Inc.** recognizes that **ASSIGNOR** hold only bare legal title to the **TRANSFERRED, TRADEMARKS, COPYRIGHTS, and PATENTS**.

ASSIGNOR agrees that, upon request it will, at any time without charge to **Longhorn Acquisition, LLC**, but at **TeleCommunication Systems, Inc.'s** expense, furnish all necessary documentation relating to or supporting chain of title, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for vesting title to **TRANSFERRED, TRADEMARKS, COPYRIGHTS, and PATENTS** in **TeleCommunication Systems, Inc.**, its successors, assigns and legal representatives or nominees; including but not limited to any acts which may be necessary, desirable or convenient for claiming said rights and for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in **TeleCommunication Systems, Inc.** and respective successors, assigns and legal representatives or nominees.

IN WITNESS WHEREOF, the parties have caused this PATENT ASSIGNMENT to be executed by their duly authorized representatives as of the Effective Date.

TeleCommunication Systems, Inc. on behalf of Longhorn Acquisition, LLC

By: Bruce White
Bruce White
Title: Senior Vice President and General Counsel

Date: 12/7/2011

Exhibit A
Marks

COMMON LAW TRADEMARKS TO LOCATIONLOGIC PRODUCTS:

1. LocationLogic™
2. Insight™
3. Family Minder™
4. Location Connect™

DOMAIN NAMES:

1. www.locationlogic.com

The Assignor from time to time develops other proprietary codes or programs that are unregistered trade secrets of the Assignor, that will sometimes be used in the business conducted by the Assignor.

Exhibit B
Works

REGISTERED COPYRIGHTS:

Name of Work	Registration Number	Registration Date	Publication Date	Author	Claimant
Autodesk, Inc. LocationLogic 4	TX 5 945 172	2.13.04	12.8.03	Autodesk, Inc.	LocationLogic LLC
Autodesk, Inc. LocationLogic 6.1	TX 6 201 572	8.10.05	3.7.05	Autodesk, Inc.	LocationLogic LLC

EASTM42428523.4

Exhibit C
Patents

Title	Patent No.	Country	Serial No.	Inventors	Billing Date	Issue Date	Products	Docket	Status
Generalized, Differentially Encoded, Indexed Raster Vector Data And Schema For Maps On A Personal Digital Assistant	US6674443B 1	US	09/628,850	Nemmara Chithambaram; Howard Marantz	07/31/00	01/06/04	LocationLogic	30566.098- US-U1	Issued
Single Gesture Map Navigation Graphical User Interface For A Personal Digital Assistant	US7142205B 2	US	09/795,890	John De Aguiar; Nemmara Chithambaram; Robin W. Dandridge	02/28/01	11/28/06	LocationLogic	30566.111- US-U11	Issued
Mobile Device Locator Adapter System For Location Based Services	US6963748B 2	US	10/037,805	John De Aguiar; Nemmara Chithambaram	12/26/01	11/08/05	LocationLogic	30566.201- US-U1	Issued
Location Based Services Bridge To External Data Sources	US6988103A	US	10/034,440	Nemmara Chithambaram; Scott Ding	12/26/01	01/17/06	LocationLogic	30566.204- US-U1	Issued
Fuzzy Logic Reasoning For Inferring User Location Preferences	US6978258B 2	US	10/034,442	Nemmara Chithambaram	12/26/01	12/20/05	LocationLogic	30566.205- US-U1	Issued
Turn Restriction Handling Enhancement	US7124199B 2	US	10/330874	Kevin G. Robinson; Martin Miller	12/27/02	10/17/06	LocationLogic	30566.218- US-U1	Issued
Meeting Location Determination Using Spatio-Semantic Modeling	US6865538B 2	US	10/224,035	Craig Miller; Nemmara Chithambaram	08/20/02	03/08/05	LocationLogic	30566.244- US-U1	Issued
Use Of Triggers And A Location Hypercube To Enable Push-	US6983747B 2	US	10/772,998	Nemmara Chithambaram	02/05/04	01/10/06	LocationLogic	30566.394- US-U1	Issued

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Based Location Applications									
Location Based Messaging	US200501869 69A1 US7458184	US	10/785.735	Sunit Lohia	02/23/04	00/00/00	LocationLogic, LRS	15786-004001	Issued
Location Based Messaging		EP	5713957.8	Sunit Lohia	02/22/03	00/00/00	LocationLogic, LBS	15786-0041EP1	Published
Interprocess Application Programming Interface For Computer Applications	US200200108 50A1 US7277921	US	09/793719	John De Aguiar; Nemmara Chithambaram; Robin W. Dandridge; Timothy J. Nelson	02/28/01	10/02/07	LocationLogic	30566.110-US-U1	Issued
Mobile Device Locator Adapter System	EP1459503A	EP	2792540.3	John De Aguiar; Nemmara Chithambaram; Scott Ding	12/26/02	00/00/00	LocationLogic	30566.20-EP-WO	Published
Meeting Location Determination Using Spatio-Semantic Modeling	WO20040191 63A2	EP	3793158.1	Craig Allen Miller; Nemmara Chithambaram	08/20/03	00/00/00	LocationLogic	30566.244-EP-WO	Published
Meeting Location Determination Using Spatio-Semantic Modeling		Japan	JP2004-531116	Craig Allen Miller; Nemmara Chithambaram	08/20/03	00/00/00	LocationLogic	30566.244-JP-WO	Published
Use Of Triggers And A Location Hypercube To Enable Push-Based Location Applications		EP	EP4708369 .1	Nemmara Chithambaram	02/05/04	00/00/00	LocationLogic	30566.294-EP-WO	Published
Use Of Triggers And A Location Hypercube To Enable Push-Based Location Applications	US200601111 26A1	US	11/267.703	Nemmara Chithambaram	11/04/05	00/00/00	LocationLogic	30566.294-US-C1	Abandoned
Landmark Enhanced Directions	US200700785 96A1	US	11/241.540	John Grace	09/30/05	00/00/00	LocationLogic	15786-071001	Published
Landmark Enhanced Directions	WO20070415 47	PCT	PCT/US20 06/038554	John Grace	09/29/06	00/00/00	LocationLogic	15786-071WO1	Published
Intelligent Reverse Geocoding	US200701910 29A1	US	11/367.911	Matthew Zarem; Eric Vuilleminot; John De Aguiar	03/03/06	00/00/00	LocationLogic	15786-081001	Published
Intelligent Reverse Geocoding	WO20070954 72	PCT	PCT/US20 07/061943	Matthew Zarem; Eric Vuilleminot; John De Aguiar	02/09/07	00/00/00	LocationLogic	15786-081WO1	Published
Location	US200702701	US	11/437.041	Sunit Lohia	05/12/06	00/00/00	LocationLogic	15786-	Published

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Sensitive Messaging	59A1			Joseph Astroth				082001	hed
Personal Location Code	US200800327 02A1	US	11/462,023	Charles Francis Cone	08/02/06	00/00/00	LocationLogic	15786-089001	Published
Personal Location Code For Cross Network Location Brokerage	US200800452 32A1	US	11/462,015	Charles Francis Cone	08/02/06	00/00/00	LocationLogic	15786-091001	Published
Single Gesture Map Navigation Graphical User Interface For A Personal Digital Assistant	US2007-0080958A1 US7439969	US	11/550497	Robin W. Dandridge; Nemmara Chithambaram; John De Aguiar	00/00/00	00/00/00	LocationLogic	30366.111 US-c1	Issued
Meeting Location Determination Using Spatio-Semantic Modeling	CN1675646A	China	3819813	Craig Allen Miller; Nemmara Chithambaram	08/20/03	00/00/00	LocationLogic	30566.244 CN-WO	Pending, unpublished

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Title	Patent No.	Countr	Serial No.	Inventors	Filing Date	Docket	Status
Intelligent Reverse Geocoding	WO2007/095472	EPC	EP 07746842.6 Based on: PCT/US07/061945 US 60/772,086 filed Feb 10, 2006 11/367,911 filed March 3, 2006	Mathew ZAREM Eric VUILLERMET John DeAGUIAR	Feb 9, 2007	15786-0081EP1 20-302	pending
Enhanced Directions Using Branded Reference Points		JAPAN	Japanese Pat Appl. No. 2008-533769 Based on: PCT/US06/038554 filed Sept 29, 2006 US 11/241,540 filed Sept 30, 2005	John GRACE		15786-071JP1 20-303	pending

Enhanced Directions Using Branded Reference Points		EPC	EP 06816086.0 Based on: PCT/US06/03 8554	John GRACE	Sept. 29, 2006	15786- 071EP1 20-304	pending
Intelligent Reverse Geocoding		JAPAN	Japanese Pat Appl. No. 2008-554528 Based on: PCT/US07/06 1945 filed Feb 9, 2007 US 60/772,086 filed Feb 10, 2006 11/367,911 filed March 3, 2006	Matthew ZAREM Eric VOILLERMET John DeAGUIAR	Feb. 10, 2006	15786- 0081JP1 20-305	pending

<i>Location Sensitive Messaging</i>		JAPAN	Japanese Pat. Appl. No. 2009-512228 Based on: PCT/US07/06 9181 filed May 17, 2007 US 11/437,041 filed May 19, 2006	Sumit LOHTIA Joseph H. ASTROTH	May 19, 2006	15786- 0082JP1 20-306	pending
<i>Location Sensitive Messaging</i>		EPC	EP 07797558.9 Based on: PCT/US07/06 9181 filed May 17, 2007 US 11/437,041 filed May 19, 2006	Sumit LOHTIA Joseph H. ASTROTH Daniel J. BURNS	May 19, 2006	15786- 0082EP1 20-307	pending
<i>Location Based Messaging</i>		US	US 12/140,577	Sumit LOHTIA	Feb. 23, 2004	15786- 004002 20-308	published, pending

Mobile Device Locator System		JAPAN	Japanese Pat Appl. No. 2007-169806 (divisional)	Nemmara CHITHAMBARA M	Dec. 26, 2002 (PCT)	30566-201- JP-D1	pending
Mobile Device Locator System		JAPAN	Japanese Pat. Appl. No. 2007-169807 (divisional 2)	Nemmara CHITHAMBARA M	Dec. 26, 2002 (PCT)	30566-201- JP-D2	pending
Mobile Device Locator System	Japanese Pat. No. 4167179	JAPAN		Nemmara CHITHAMBARA M John R. DeAGUIAR Scott DING		30566-201- JP-WO	issued
Location Sensitive Messaging	WO2007/13 7137	PCT	PCT/US07/69 181	Sumit LOHTIA Joseph H. ASTROTH, Jr.	May 19, 2006	15786- 082WO1	expired
Location Based Messaging		PCT	PCT/US2005/ 05661	Daniel J. BURNS Sumit LOHTIA	Feb. 23, 2004	15786- 004WO1	expired
Personal Location Code	WO2008/01 7052	PCT	PCT/US07/75 123	Charles Francis CONE Daniel J. BURNS	Augus t 2, 2006	15786- 089WO1	expired (no foreign filings)

Personal Location Code Broker		PCT	PCT/US07/75 130	Charles Francis CONE Daniel J. BURNS	Augus t 2, 2006	15786- 091WO1	expired (no foreign filings)
Use of Triggers and a Location Hypercube to Enable Push-Based Location Applications		PCT	PCT/US04/00 3294	Nemmara CHITHAMBARA M		30566.294 WO1	expired
Mobile Device Locator System	WO2003/05 8928	PCT	PCT/US02/04 1611	Nemmara CHITHAMBARA M John R. DeAGUIAR Scott DING	Dec. 26, 2001	30566.201- WO-01	expired

PATENT

REEL: 067751 FRAME: 0059

RECORDED: 06/26/2026