

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2781778

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:	ANNAPOLIS, MD	
State/Country:	MARYLAND	
Postal Code:	21401	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	14223005
CORRESPONDENCE DATA		
Fax Number:		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>		
Phone:	410-295-1426	
Email:	doneill@telecomsys.com	
Correspondent Name:	TELECOMMUNICATION SYSTEMS, INC.	
Address Line 1:	275 WEST STREET	
Address Line 4:	ANNAPOLIS, MARYLAND 21401	
ATTORNEY DOCKET NUMBER:	40189	
NAME OF SUBMITTER:	WILLIAM H. BOLLMAN	
SIGNATURE:	/William H. Bollman/	
DATE SIGNED:	03/24/2014	
Total Attachments: 12		
source=Assignment-Longhorn-TCS#page1.tif		
source=Assignment-Longhorn-TCS#page2.tif		
source=Assignment-Longhorn-TCS#page3.tif		
source=Assignment-Longhorn-TCS#page4.tif		
source=Assignment-Longhorn-TCS#page5.tif		
source=Assignment-Longhorn-TCS#page6.tif		

PATENT

source=Assignment-Longhorn-TCS#page7.tif
source=Assignment-Longhorn-TCS#page8.tif
source=Assignment-Longhorn-TCS#page9.tif
source=Assignment-Longhorn-TCS#page10.tif
source=Assignment-Longhorn-TCS#page11.tif
source=Assignment-Longhorn-TCS#page12.tif

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.**

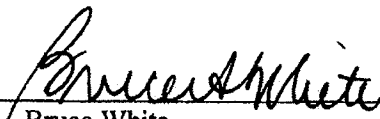
NOW, THEREFORE, in consideration of good and valid consideration, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, agree as follows:

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
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

Exhibit C
Patents

Title	Patent No.	Country	Serial No.	Inventors	Filing Date	Issue Date	Products	Docket	Status
Generalized, Differentially Encoded, Indexed Raster Vector Data And Schema For Maps On A Personal Digital Assistant	US6674445B 1	US	09/628,850	Nemmara Chithambaram; Howard Marantz	07/31/00	01/06/04	LocationLogic	30566.098- US-UI	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-UI	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	30566.204- US-UI	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-UI	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-UI	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-UI	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-UI	Issued
Use Of Triggers And A Location Hypercube To Enable Push-	US6985747B 2	US	10/772,998	Nemmara Chithambaram	02/05/04	01/10/06	LocationLogic	30566.294- US-UI	Issued

EAST42428525.4

Based Location Applications									
Location Based Messaging	US200501869 69A1 US7458184	US	10/785,735	Sunit Lohtia	02/23/04	00/00/00	LocationLogic, LRS	15786-004001	Issued
Location Based Messaging		EP	5713957.8	Sunit Lohtia	02/22/05	00/00/00	LocationLogic, LBS	15786-004EP1	Published
Interprocess Application Programming Interface For Computer Applications	US200200108 50A1 US7277921	US	09/795719	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	EP1459505A	EP	2792540.3	John De Aguiar; Nemmara Chithambaram; Scott Ding	12/26/02	00/00/00	LocationLogic	30566.201-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	EP4708569 .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	15786-071WO	Published
Intelligent Reverse Geocoding	US200701910 29A1	US	11/367,911	Matthew Zarem; Eric Vuillermet; John De Aguiar	03/03/06	00/00/00	LocationLogic	15786-081001	Published
Intelligent Reverse Geocoding	WO20070954 72	PCT	PCT/US20 07/061945	Matthew Zarem; Eric Vuillermet; John De Aguiar	02/09/07	00/00/00	LocationLogic	15786-081WO	Published
Location	US200702701	US	11/437,041	Sunit Lohtia;	05/19/06	00/00/00	LocationLogic	15786-	Published

Sensitive Messaging	59A1			Joseph Astroth				082001	hed
Personal Location Code	US20080032702A1	US	11/462,023	Charles Francis Cone	08/02/06	00/00/00	LocationLogic	15786-089001	Published
Personal Location Code For Cross Network Location Brokering	US20080045232A1	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	30566.111- US-cl	Issued
Meeting Location Determination Using Spatio-Semantic Modeling	CN1675646A	China	3819815	Craig Allen Miller; Nemmara Chithambaram	08/20/03	00/00/00	LocationLogic	30566.244- CN-WO	Pending, unpublished

Title	Patent No.	Countr y	Serial No.	Inventors	Filing Date	Docket	Status
Intelligent Reverse Geocoding	WO2007/09 5472	EPC	EP 07746842.6 Based on: PCT/US07/06 1945 US 60/772,086 filed Feb 10, 2006 11/367,911 filed March 3, 2006	Matthew ZAREM Eric VULLERMET 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/US06/03 8554 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 VUILLEMET 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	Sunit LOHTTA 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	Sunit LOHTTA Joseph H. ASTROTH Daniel J. BURNS	May 19, 2006	15786-0082EP1 20-307	pending
<i>Location Based Messaging</i>		US	US 12/140,577	Sunit LOHTTA	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	WO2007/137137	PCT	PCT/US07/69181	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	WO2008/017052	PCT	PCT/US07/75123	Charles Francis CONE Daniel J. BURNS	August 2, 2006	15786-089WO1	expired (no foreign filings)

Personal Location Code Broker		PCT	PCT/US07/75 130	Charles Francis CONE	August 12, 2006	15786- 091 WO1	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: 032507 FRAME: 0040

RECORDED: 03/24/2014