

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

Assignment ID: PATI2483

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Ahmed Mahmood	07/19/2022
Sean Huberman	09/18/2023
Joshua Karon	09/19/2023
Naiyu Chen	11/29/2022
Vera Miller	10/14/2022
Eros Gulo	11/18/2022
<b>RECEIVING PARTY DATA</b>	
<b>Company Name:</b>	Mapsted Corp.
<b>Street Address:</b>	200-200 Matheson Blvd W
<b>City:</b>	Mississauga
<b>State/Country:</b>	CANADA
<b>Postal Code:</b>	L5R 3L7
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17590635
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
<b>Phone:</b>	6479513066
<b>Email:</b>	harshdeep.kaur@mapsted.com,nagpalp@mapsted.com
<b>Correspondent Name:</b>	Paramvir S. Nagpal
<b>Address Line 1:</b>	200-200 Matheson Blvd W
<b>Address Line 4:</b>	Mississauga, CANADA L5R 3L7
<b>NAME OF SUBMITTER:</b>	Paramvir Nagpal
<b>SIGNATURE:</b>	Paramvir Nagpal
<b>DATE SIGNED:</b>	02/05/2024
<b>Total Attachments: 24</b>	
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## ASSIGNMENT FOR PATENT APPLICATIONS

I, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, and in furtherance of my obligations to MAPSTED CORP. a corporation incorporated under the laws of Canada and having a place of business at 200 Matheson Blvd. West, Suite no. 200, Mississauga, Ontario L5R 3L7, Canada ("ASSIGNEE") and to its subsidiaries and affiliates, agree to assign and transfer, and hereby assign and transfer to ASSIGNEE, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under an application(s) for Patent/Patent(s) listed in the **ANNEXURE I**, the subject matter, including any and all inventions, improvements, and discoveries, set forth in said application for patent {as used herein "patent" refers to any form of intellectual property protection including, without limitation, invention rights, utility patent rights, design rights, and utility model fights} (hereinafter "Inventions"); any and all existing and future applications for patent of any country or region or under any international agreement for any of said Inventions (including, without limitation, said application for patent, any and all applications for patent directly or indirectly claiming priority to or benefit of any application for patent for any of said inventions, any and all applications for patent from which any application for patent for any of said inventions directly or indirectly claims priority or benefit, and any and all continuation applications of, continuation-in-part applications (hereinafter "CIPs") of, divisional applications of, national phase applications of regional- phase applications of, renewals of and substitutes for any application for patent for any of said Inventions} (hereinafter "Applications for Patent"); any and all patents which may be granted on or as a result of said Applications for Patent (hereinafter "Patents"); and any and all reissues, re-examinations, and extensions of said Applications for Patent or said Patents.

I HEREBY represent that I convey my full rights in all countries and regions and under all international agreements to the entire right, title, and interest herein assigned and transferred, and that I have not executed and will not execute any agreement in conflict herewith;

AND I HEREBY authorize ASSIGNEE, its successors, its assigns, its nominees, and its legal representatives to file said Applications for Patent in its name or in my name in any country or region or under any international agreement, and further authorize ASSIGNEE, its successors, its assigns, its nominees, and its legal representatives to insert the filing date, application number, and patent office of said application(s) for patent set forth above, when known to them;

AND I HEREBY authorize and request the officials of all countries and regions and under all international agreements whose duty it is to issue patents; to issue to ASSIGNEE, its successors, or its assigns, as assignee of my entire right, title, and interest, said Patents, in accordance with the terms of this assignment and transfer;

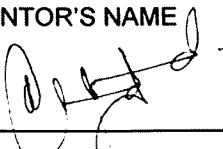
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provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by ASSIGNEE, its successors, its assigns, its nominees, or its legal representatives.

AND I and ASSIGNEE agree that this Assignment shall come in force on my date of start of employment with the ASSIGNEE.

Ahmed Mahmood

INVENTOR'S NAME



INVENTOR'S SIGNATURE

19 - July - 2022  
Date

## ANNEXURE I

S.No.	Internal Docket No.	Application Number	Title	Filing Date
1	MP-054	17134224	LOCALIZATION USING TESSELLATED GRIDS	25-Dec-20
2	MP-055	17134226	METHOD AND SYSTEM FOR TARGETED CALIBRATION	25-Dec-20
3	MP-056	17134227	LOCALIZATION USING GRID-BASED REPRESENTATION OF MAP CONSTRAINTS	25-Dec-20
4	MP-057	17590794	METHOD AND SYSTEM FOR CALIBRATION OF A SPACE IN AN INDOOR AREA	01-Feb-22
5	MP-055-Div	17590635	METHOD AND SYSTEM FOR CALIBRATION OF AN INDOOR SPACE	01-Feb-22
6	MP-059	17727027	METHOD AND SYSTEM FOR CRITERION-BASED LOCALIZATION OF MOBILE DEVICES	22-Apr-22
7	MP-060	17728018	METHOD AND SYSTEM FOR AUTOMATICALLY GENERATING A MAP OF AN INDOOR SPACE	25-May-22
8	MP-061	17867923	DETERMINING MOTION IN INDOOR SPACE USING PROBABILISTIC REPRESENTATION OF MOTION TRANSITION	19-Jul-22

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provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by ASSIGNEE, its successors, its assigns, its nominees, or its legal representatives.

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VERA MILLER  
INVENTOR'S NAME

  
INVENTOR'S SIGNATURE

2022 / 10 / 14  
Date

## ANNEXURE I

S.No.	Internal Docket No.	Application Number	Title	Filing Date
1	MP-053	17062701	METHOD AND SYSTEM FOR ZONE-BASED LOCALIZATION OF MOBILE DEVICES	05-Oct-20
2	MP-055	17134226	METHOD AND SYSTEM FOR TARGETED CALIBRATION	25-Dec-20
3	MP-055-Div	17590635	METHOD AND SYSTEM FOR CALIBRATION OF AN INDOOR SPACE	01-Feb-22
4	MP-061	17867923	DETERMINING MOTION IN INDOOR SPACE USING PROBABILISTIC REPRESENTATION OF MOTION TRANSITION	19-Jul-22



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Eros Gulo

INVENTOR'S NAME

[Signature]

INVENTOR'S SIGNATURE

Nov. 18, 2022

Date

# ANNEXURE I

S.No.	Internal Docket No.	Application Number	Title	Filing Date
1	MP-002	15/593,373	SYSTEMS AND METHODS FOR DETERMINING INDOOR LOCATION AND FLOOR OF A MOBILE DEVICE	12th May 2017
2	MP-005	15/803,082	METHOD AND SYSTEM FOR POSITIONING STATE TRANSITION	3rd Nov 2017
3	MP-006	15/827,748	MOBILE DEVICE LOCALIZATION BASED ON SPATIAL DERIVATIVE MAGNETIC FINGERPRINT	30th Nov 2017
4	MP-007	15/827,853	SELF-LEARNING LOCALIZATION DATA REPOSITORY	30th Nov 2017
5	MP-012	15/928,167	METHOD AND SYSTEM OF CROWD- SOURCED PEDESTRIAN LOCALIZATION	22nd March 2018
6	MP-013	15/928,182	METHOD AND SYSTEM FOR SERVER BASED MOBILE DEVICE MONITORING IN CROWD- SOURCED PEDESTRIAN LOCALIZATION	22nd March 2018
7	MP-023	16/113044	METHOD AND SYSTEM FOR CROWD- SOURCED MAP FEATURE UPDATING	27-Aug-18
8	MP-027	16/155892	METHOD AND SYSTEM FOR MOBILE DEVICE PROCESSING TIMEOUT BASED LOCALIZATION	10-Oct-18
9	MP-028	16180306	METHOD AND SYSTEM FOR CROWD-SOURCED TRUSTED-GPS REGION FOR MOBILE DEVICE LOCALIZATION	05-Nov-18
10	MP-029	16180301	METHOD AND SYSTEM FOR MOBILE DEVICE LOCALIZATION REGION IN TRUSTED-GPS REGION	05-Nov-18
11	MP-055	17134226	METHOD AND SYSTEM FOR TARGETED CALIBRATION	25-Dec-20
12	MP-055-Div	17590635	METHOD AND SYSTEM FOR CALIBRATION OF AN INDOOR SPACE	01-Feb-22
13	MP-059	17727027	METHOD AND SYSTEM FOR CRITERION-BASED LOCALIZATION OF MOBILE DEVICES	22-Apr-22
14	MP-002-C1	15/784,265	SYSTEMS AND METHODS FOR DETERMINING INDOOR LOCATION AND FLOOR OF A MOBILE DEVICE	16-Oct-17
15	MP-006-C1	16/029689	MOBILE DEVICE LOCALIZATION BASED ON SPATIAL DERIVATIVE MAGNETIC FINGERPRINT	09-Jul-18
16	MP-005-C1	16/045949	METHOD AND SYSTEM FOR POSITIONING STATE TRANSITION	26-Jul-18

17	MP-012-C1	16/121264	METHOD AND SYSTEM OF CROWD- SOURCED PEDESTRIAN LOCALIZATION	04-Sep-18
18	MP-013-C1	16/121258	METHOD AND SYSTEM FOR SERVER BASED MOBILE DEVICE MONITORING IN CROWD-SOURCED PEDESTRIAN LOCALIZATION	04-Sep-18
19	MP-007-C1	16279164	SELF-LEARNING LOCALIZATION DATA REPOSITORY	19-Feb-19

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JOSHUA KARON

INVENTOR'S NAME

Josh Karon

INVENTOR'S SIGNATURE

19/09/2023

Date

## ANNEXURE I

S.No.	Internal Docket No.	Application Number	Title	Filing Date
1	MP-036	16400551	NEURAL NETWORK TRAINING FOR MOBILE DEVICE RSS FINGERPRINT-BASED INDOOR NAVIGATION	01-May-19
2	MP-037	16400562	CROWD-SOURCED TRAINING OF A NEURAL NETWORK FOR RSS FINGERPRINTING	01-May-19
3	MP-038	16400819	MAINTAINING A TRAINED NEURAL NETWORK FOR MOBILE DEVICE RSS FINGERPRINT BASED INDOOR NAVIGATION	01-May-19
4	MP-039	16429551	DEPLOYMENT OF TRAINED NEURAL NETWORK BASED RSS FINGERPRINT DATASET	03-Jun-19
5	MP-040	16429557	NEURAL NETWORK- INSTANTIATED LIGHTWEIGHT CALIBRATION OF RSS FINGERPRINT DATASET	03-Jun-19
6	MP-047	16582059	TIME OFFSET BASED SYNCHRONIZATION IN MOBILE DEVICE LOCALIZATION	25-Sep-19
7	MP-048	16587362	CROWD SOURCED MULTI-STAGE MOBILE DEVICE FINGERPRINT BASED NAVIGATION	30-Sep-19
8	MP-049	16587392	INFRASTRUCTURE CHARACTERISTICS BASED MOBILE DEVICE NAVIGATION	30-Sep-19
9	MP-050	16671503	Magnetic Parameter-based Localization in Mobile Device Navigation	01-Nov-19
10	MP-051	16777327	Infrastructure Re-Purposed RSS Signature in Mobile Device Localization	30-Jan-20
11	MP-052	16777334	Infrastructure Re-Purposed Magnetic Signature in Mobile Device Localization	30-Jan-20
12	MP-053	17062701	METHOD AND SYSTEM FOR ZONE-BASED LOCALIZATION OF MOBILE DEVICES	05-Oct-20
13	MP-054	17134224	LOCALIZATION USING TESSELLATED GRIDS	25-Dec-20
14	MP-055	17134226	METHOD AND SYSTEM FOR TARGETED CALIBRATION	25-Dec-20
15	MP-056	17134227	LOCALIZATION USING GRID-BASED REPRESENTATION OF MAP CONSTRAINTS	25-Dec-20
16	MP-055-Div	17590635	METHOD AND SYSTEM FOR CALIBRATION OF AN INDOOR SPACE	01-Feb-22
17	MP-021-C1	16174771	METHOD AND SYSTEM FOR MOBILE DEVICE LOCALIZATION IN EXTREME AMBIENT CONDITIONS	30-Oct-18

18	MP-050-C1 (Continuation in part)	17062151	Magnetic Parameter-based Localization in Mobile Device Navigation	02-Oct-20
19	MP-021	16/101826	METHOD AND SYSTEM FOR MOBILE DEVICE LOCALIZATION IN EXTREME AMBIENT CONDITIONS	13-Aug-18
20	MP-022	16/101832	METHOD AND SYSTEM FOR MANAGING MOBILE DEVICES IN EXTREME AMBIENT CONDITIONS	13-Aug-18



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NAIYU CHEN

INVENTOR'S NAME

Naiyu Chen

INVENTOR'S SIGNATURE

2022-11-29

Date

## ANNEXURE I

S.No.	Internal Docket No.	Application Number	Title	Filing Date
1	MP-018	16/029687	METHOD AND SYSTEM FOR MOBILE DEVICE LOCALIZATION USING BAROMETRIC FINGERPRINT	9th July 2018
2	MP-019	16/029688	METHOD AND SYSTEM FOR CROWD-SOURCED BAROMETRIC FINGERPRINT DATA REPOSITORY	9th July 2018
3	MP-055	17134226	METHOD AND SYSTEM FOR TARGETED CALIBRATION	25-Dec-20
4	MP-055-Div	17590635	METHOD AND SYSTEM FOR CALIBRATION OF AN INDOOR SPACE	01-Feb-22

## ASSIGNMENT FOR PATENT APPLICATIONS

I, the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, and in furtherance of my obligations to MAPSTED CORP. a corporation incorporated under the laws of Canada and having a place of business at 200 Matheson Blvd. West, Suite no. 200, Mississauga, Ontario L5R 3L7, Canada ("ASSIGNEE") and to its subsidiaries and affiliates, agree to assign and transfer, and hereby assign and transfer to ASSIGNEE, its successors and assigns, the entire right, title and interest, including the right of priority, in, to and under application(s) for Patent listed in the **ANNEXURE I**, the subject matter, including any and all inventions, improvements, and discoveries, set forth in said application for patent {as used herein "patent" refers to any form of intellectual property protection including, without limitation, invention rights, utility patent rights, design rights, and utility model fights} (hereinafter "Inventions"); any and all existing and future applications for patent of any country or region or under any international agreement for any of said Inventions (including, without limitation, said application for patent, any and all applications for patent directly or indirectly claiming priority to or benefit of any application for patent for any of said inventions, any and all applications for patent from which any application for patent for any of said inventions directly or indirectly claims priority or benefit, and any and all continuation applications of, continuation-in-part applications (hereinafter "CIPs") of, divisional applications of, national phase applications of regional-phase applications of, renewals of and substitutes for any application for patent for any of said Inventions) (hereinafter "Applications for Patent"); any and all patents which may be granted on or as a result of said Applications for Patent (hereinafter "Patents"); and any and all reissues, re-examinations, and extensions of said Applications for Patent or said Patents.

I HEREBY represent that I convey my full rights in all countries and regions and under all international agreements to the entire right, title, and interest herein assigned and transferred, and that I have not executed and will not execute any agreement in conflict herewith;

AND I HEREBY authorize ASSIGNEE, its successors, its assigns, its nominees, and its legal representatives to file said Applications for Patent in its name or in my name in any country or region or under any international agreement, and further authorize ASSIGNEE, its successors, its assigns, its nominees, and its legal representatives to insert the filing date, application number, and patent office of said application(s) for patent set forth above, when known to them;

AND I HEREBY authorize and request the officials of all countries and regions and under all international agreements whose duty it is to issue patents; to issue to ASSIGNEE, its successors, or its assigns, as assignee of my entire right, title, and interest, said Patents, in accordance with the terms of this assignment and transfer;

AND I HEREBY covenant and agree that I will, each time a request is made, and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title in said Inventions, Applications for Patent, and Patents, to ASSIGNEE, its successors, or its assigns; communicate to ASSIGNEE, its successors, its assigns, its nominees, or its legal representatives, all known facts respecting said Inventions, Applications for Patent, and Patents; testify in any legal or administrative proceedings and sign all lawful papers (including, without limitation, divisional applications, continuation applications, CIPs, and reissue applications) relating to said Inventions, Applications for Patent, and Patents; and make all rightful oaths and declarations and generally to do everything possible to aid ASSIGNEE, its successors, its assigns, its nominees, and its legal representatives to obtain, maintain, and enforce, for its or their own benefit, proper intellectual property protection for said Inventions, Applications for Patent, and Patents,

its assigns, its nominees, and its legal representatives to obtain, maintain, and enforce, for its or their own benefit, proper intellectual property protection for said Inventions, Applications for Patent, and Patents, provided the expenses which may be incurred by me in lending such cooperation and assistance are paid by ASSIGNEE, its successors, its assigns, its nominees, or its legal representatives.

AND I and ASSIGNEE agree that this Assignment shall come in force on my date of start of employment with the ASSIGNEE.

Sean Huberman

INVENTOR'S NAME

Sean Huberman

INVENTOR'S SIGNATURE

Sept. 18, 2023

Date

# ANNEXURE I

S.No.	Internal Docket No.	Application Number	Title	Filing Date
1	MP-001	15/481,118	SCALABLE INDOOR NAVIGATION AND POSITIONING SYSTEMS AND METHODS	6th April 2017
2	MP-002	15/593,373	SYSTEMS AND METHODS FOR DETERMINING INDOOR LOCATION AND FLOOR OF A MOBILE DEVICE	12th May 2017
3	MP-003	15/713,370	DEVICE ORIENTATION SYSTEMS AND METHODS	22nd Sept 2017
4	MP-004	15/713,904	CROWD-SOURCED PASSIVE POSITIONING AND CALIBRATION	25th Sept 2017
5	MP-005	15/803,082	METHOD AND SYSTEM FOR POSITIONING STATE TRANSITION	3rd Nov 2017
6	MP-006	15/827,748	MOBILE DEVICE LOCALIZATION BASED ON SPATIAL DERIVATIVE MAGNETIC FINGERPRINT	30th Nov 2017
7	MP-007	15/827,853	SELF-LEARNING LOCALIZATION DATA REPOSITORY	30th Nov 2017
8	MP-011	15/910,080	METHOD AND SYSTEM OF PEDESTRIAN LOCALIZATION	2nd March 2018
9	MP-012	15/928,167	METHOD AND SYSTEM OF CROWD- SOURCED PEDESTRIAN LOCALIZATION	22nd March 2018
10	MP-013	15/928,182	METHOD AND SYSTEM FOR SERVER BASED MOBILE DEVICE MONITORING IN CROWD-SOURCED PEDESTRIAN LOCALIZATION	22nd March 2018
11	MP-016	15/983,159	METHOD AND SYSTEM FOR LOCALIZATION- ENABLED DATA CONNECTIVITY TRANSITIONING	18th May 2018
12	MP-017	16/007162	METHOD AND SYSTEM FOR DEVICE PLACEMENT BASED OPTIMIZATION TECHNIQUES	13th June 2018
13	MP-018	16/029687	METHOD AND SYSTEM FOR MOBILE DEVICE LOCALIZATION USING BAROMETRIC FINGERPRINT	9th July 2018
14	MP-019	16/029688	METHOD AND SYSTEM FOR CROWD- SOURCED BAROMETRIC FINGERPRINT DATA REPOSITORY	9th July 2018

15	MP-020	16/101816	METHOD AND SYSTEM FOR LOCALIZING TRACKING DEVICES	13-Aug-18
16	MP-021	16/101826	METHOD AND SYSTEM FOR MOBILE DEVICE LOCALIZATION IN EXTREME AMBIENT CONDITIONS	13-Aug-18
17	MP-022	16/101832	METHOD AND SYSTEM FOR MANAGING MOBILE DEVICES IN EXTREME AMBIENT CONDITIONS	13-Aug-18
18	MP-023	16/113044	METHOD AND SYSTEM FOR CROWD- SOURCED MAP FEATURE UPDATING	27-Aug-18
19	MP-026 (Divisional of MP-016)	16/136,586	METHOD AND SYSTEM FOR LOCALIZATION-BASED DATA CONNECTIVITY TRANSITIONING	20-Sep-18
20	MP-027	16/155892	METHOD AND SYSTEM FOR MOBILE DEVICE PROCESSING TIMEOUT BASED LOCALIZATION	10-Oct-18
21	MP-028	16180306	METHOD AND SYSTEM FOR CROWD-SOURCED TRUSTED-GPS REGION FOR MOBILE DEVICE LOCALIZATION	05-Nov-18
22	MP-029	16180301	METHOD AND SYSTEM FOR MOBILE DEVICE LOCALIZATION REGION IN TRUSTED-GPS REGION	05-Nov-18
23	MP-030	16224108	METHOD AND SYSTEM FOR MOBILE DEVICE LOCALIZATION IN MAGNETIC FIELDS	18-Dec-18
24	MP-031	16257456	METHOD AND SYSTEM FOR DEPLOYING CROWD-SOURCED MAGNETIC DISTORTION REJECTION MAP	25-Jan-19
25	MP-032	16257469	METHOD AND SYSTEM FOR MOBILE DEVICE DUAL STREAM LOCALIZATION IN A MAGNETIC DISTORTION REGION	25-Jan-19
26	MP-033	16354554	METHOD AND SYSTEM OF MOBILE DEVICE SEQUENCING FOR LOCALIZATION	15-Mar-19
27	MP-034	16269772	METHOD AND SYSTEM FOR THRESHOLD-BASED DETECTION OF DISTORTIVE MAGNETIC FIELDS IN INDOOR LOCATIONS	07-Feb-19

28	MP-035	16359049	METHOD AND SYSTEM OF CROWD- SOURCED HEADING CORRECTIONS	20-Mar-19
29	MP-036	16400551	NEURAL NETWORK TRAINING FOR MOBILE DEVICE RSS FINGERPRINT- BASED INDOOR NAVIGATION	01-May-19
30	MP-037	16400562	CROWD-SOURCED TRAINING OF A NEURAL NETWORK FOR RSS FINGERPRINTING	01-May-19
31	MP-038	16400819	MAINTAINING A TRAINED NEURAL NETWORK FOR MOBILE DEVICE RSS FINGERPRINT BASED INDOOR NAVIGATION	01-May-19
32	MP-039	16429551	DEPLOYMENT OF TRAINED NEURAL NETWORK BASED RSS FINGERPRINT DATASET	03-Jun-19
33	MP-040	16429557	NEURAL NETWORK-INSTANTIATED LIGHTWEIGHT CALIBRATION OF RSS FINGERPRINT DATASET	03-Jun-19
34	MP-041	16503554	Generating Magnetic Fingerprint for Mobile Device Indoor Navigation	04-Jul-19
35	MP-042	16503555	Magnetic Fingerprint Neural Network Training for Mobile Device Indoor Navigation	04-Jul-19
36	MP-043	16519617	Maintaining a Trained Neural Network in Magnetic Fingerprint based Indoor Navigation	23-Jul-19
37	MP-044	16523422	Deployment of Trained Neural Network in Magnetic Fingerprint based Indoor Navigation	26-Jul-19
38	MP-045	16559929	Method and System for Lightweight Calibration of Magnetic Fingerprint Dataset	04-Sep-19
39	MP-046	16559933	Method and System of Crowd-Sourced Magnetic Fingerprinting with Neural Network Re-Training	04-Sep-19
40	MP-047	16582059	TIME OFFSET BASED SYNCHRONIZATION IN MOBILE DEVICE LOCALIZATION	25-Sep-19
41	MP-048	16587362	CROWD SOURCED MULTI-STAGE MOBILE DEVICE FINGERPRINT BASED NAVIGATION	30-Sep-19
42	MP-049	16587392	INFRASTRUCTURE CHARACTERISTICS BASED MOBILE DEVICE NAVIGATION	30-Sep-19



43	MP-050	16671503	Magnetic Parameter-based Localization in Mobile Device Navigation	01-Nov-19
44	MP-051	16777327	Infrastructure Re-Purposed RSS Signature in Mobile Device Localization	30-Jan-20
45	MP-052	16777334	Infrastructure Re-Purposed Magnetic Signature in Mobile Device Localization	30-Jan-20
46	MP-053	17062701	METHOD AND SYSTEM FOR ZONE-BASED LOCALIZATION OF MOBILE DEVICES	05-Oct-20
47	MP-054	17134224	LOCALIZATION USING TESSELLATED GRIDS	25-Dec-20
48	MP-055	17134226	METHOD AND SYSTEM FOR TARGETED CALIBRATION	25-Dec-20
49	MP-056	17134227	LOCALIZATION USING GRID-BASED REPRESENTATION OF MAP CONSTRAINTS	25-Dec-20
50	MP-057	17590794	METHOD AND SYSTEM FOR CALIBRATION OF A SPACE IN AN INDOOR AREA	01-Feb-22
51	MP-055-Div	17590635	METHOD AND SYSTEM FOR CALIBRATION OF AN INDOOR SPACE	01-Feb-22
52	MP-059	17727027	METHOD AND SYSTEM FOR CRITERION-BASED LOCALIZATION OF MOBILE DEVICES	22-Apr-22
53	MP-060	17728018	METHOD AND SYSTEM FOR AUTOMATICALLY GENERATING A MAP OF AN INDOOR SPACE	25-May-22
54	MP-002-C1	15/784,265	SYSTEMS AND METHODS FOR DETERMINING INDOOR LOCATION AND FLOOR OF A MOBILE DEVICE	16-Oct-17
55	MP-001-C1	15/864,900	SCALABLE INDOOR NAVIGATION AND POSITIONING SYSTEMS AND METHODS	08-Jan-18
56	MP-004-C1	15/974,296	CROWD-SOURCED PASSIVE POSITIONING AND CALIBRATION	08-May-18
57	MP-006-C1	16/029689	MOBILE DEVICE LOCALIZATION BASED ON SPATIAL DERIVATIVE MAGNETIC FINGERPRINT	09-Jul-18
58	MP-005-C1	16/045949	METHOD AND SYSTEM FOR POSITIONING STATE TRANSITION	26-Jul-18

59	MP-012-C1	16/121264	METHOD AND SYSTEM OF CROWD- SOURCED PEDESTRIAN LOCALIZATION	04-Sep-18
60	MP-013-C1	16/121258	METHOD AND SYSTEM FOR SERVER BASED MOBILE DEVICE MONITORING IN CROWD- SOURCED PEDESTRIAN LOCALIZATION	04-Sep-18
61	MP-011-C1	16147625	METHOD AND SYSTEM OF PEDESTRIAN LOCALIZATION	29-Sep-18
62	MP-021-C1	16174771	METHOD AND SYSTEM FOR MOBILE DEVICE LOCALIZATION IN EXTREME AMBIENT CONDITIONS	30-Oct-18
63	MP-007-C1	16279164	SELF-LEARNING LOCALIZATION DATA REPOSITORY	19-Feb-19
64	MP-020-C1	16519678	METHOD AND SYSTEM FOR LOCALIZING TRACKING DEVICES	23-Jul-19
65	MP-050-C1 (Continuation in part)	17062151	Magnetic Parameter-based Localization in Mobile Device Navigation	02-Oct-20
66	MP-026-C1	17238119	METHOD AND SYSTEM FOR LOCALIZATION-BASED DATA CONNECTIVITY TRANSITIONING	22-Apr-21