

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT8394068

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SEAN HUBERMAN	09/18/2023
PARAMVIR NAGPAL	12/02/2022
RECEIVING PARTY DATA	
Name:	MAPSTED CORP.
Street Address:	200-200 MATHESON BLVD W
City:	MISSISSAUGA
State/Country:	CANADA
Postal Code:	L5R3L7
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16101816
CORRESPONDENCE DATA	
Fax Number:	
<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>	
Email:	harshdeep.kaur@mapsted.com
Correspondent Name:	PARAMVIR S. NAGPAL
Address Line 1:	200-200 MATHESON BLVD W
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ATTORNEY DOCKET NUMBER:	MP-020
NAME OF SUBMITTER:	PARAMVIR S NAGPAL
SIGNATURE:	/Paramvir Nagpal/
DATE SIGNED:	01/22/2024
Total Attachments: 11	
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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 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 rights) (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

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Paramvir Nagpal

INVENTOR'S NAME

Paramvir

INVENTOR'S SIGNATURE

2nd Dec 2022

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	06-Apr-17
2	MP-001-P	62/391,771	Adaptive probabilistic indoor tracking system	11-May-16
3	MP-004-P	62/495,876	Method for indoor navigation calibration of shopping malls based on crowd-sourcing	28-Sep-16
4	MP-014-P	62/641,676	Localization-based mobile device authentication with dynamically displayable pedestrian route options	12-Mar-18
5	MP-020-P	62/700,045	Embedded Device Localization for Manufacturing Facilities	18-Jul-18
6	MP-002	15/593,373	SYSTEMS AND METHODS FOR DETERMINING INDOOR LOCATION AND FLOOR OF A MOBILE DEVICE	12-May-17
7	MP-003	15/713,370	DEVICE ORIENTATION SYSTEMS AND METHODS	22nd Sept 2017
8	MP-004	15/713,904	CROWD-SOURCED PASSIVE POSITIONING AND CALIBRATION	25-Sep-17
9	MP-008	15/861,902	MAGNETIC LANDMARK METHOD AND SYSTEM FOR DETECTING IN-BUILDING (LOCAL VENUE) THRESHOLD	04-Jan-18
10	MP-009	15/869,900	METHOD AND SYSTEM FOR CROWD-SOURCED NAVIGATION PROFILE OPTIONS	12-Jan-18
11	MP-011	15/910,080	METHOD AND SYSTEM OF PEDESTRIAN LOCALIZATION	02-Mar-18
12	MP-012	15/928,167	METHOD AND SYSTEM OF CROWD-SOURCED PEDESTRIAN LOCALIZATION	22-Mar-18
13	MP-013	15/928,182	METHOD AND SYSTEM FOR SERVER BASED MOBILE DEVICE MONITORING IN CROWD-SOURCED PEDESTRIAN LOCALIZATION	22-Mar-18
14	MP-014	15/944,407	METHOD AND SYSTEM FOR MOBILE DEVICE LOCALIZATION-BASED ACCESS	03-Apr-18
15	MP-015	15/955,664	METHOD AND SYSTEM FOR CREDENTIAL-BASED PEDESTRIAN ROUTING	17-Apr-18
16	MP-003	15/713,370	DEVICE ORIENTATION SYSTEMS AND METHODS	22-Sep-17
17	MP-010	15/888,077	METHOD AND SYSTEM FOR CROWD-SOURCED INVENTORY CONTROL ADJUSTMENTS	04-Feb-18
18	MP-017	16/007162	METHOD AND SYSTEM FOR DEVICE PLACEMENT BASED OPTIMIZATION TECHNIQUES	13-Jun-18

19	MP-020	16/101816	METHOD AND SYSTEM FOR LOCALIZING TRACKING DEVICES	13-Aug-18
20	MP-022	16/101832	METHOD AND SYSTEM FOR MANAGING MOBILE DEVICES IN EXTREME AMBIENT CONDITIONS	13-Aug-18
21	MP-024	16123043	METHOD AND SYSTEM FOR EMBEDDED DEVICE LOCALIZATION-BASED PROGRESSIVE INDICATORS	06-Sep-18
22	MP-025	16123048	METHOD AND SYSTEM FOR EMBEDDED DEVICE LOCALIZATION-BASED FAULT INDICATION	06-Sep-18
23	MP-058	17680693	SCANNABLE CODE BASED NAVIGATION IN AN INDOOR AREA	25-Feb-22
24	MP-002-C1	15/784,265	SYSTEMS AND METHODS FOR DETERMINING INDOOR LOCATION AND FLOOR OF A MOBILE DEVICE	16-Oct-17
25	MP-001-C1	15/864,900	SCALABLE INDOOR NAVIGATION AND POSITIONING SYSTEMS AND METHODS	08-Jan-18
26	MP-004-C1	15/974,296	CROWD-SOURCED PASSIVE POSITIONING AND CALIBRATION	08-May-18
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30	MP-011-C1	16147625	METHOD AND SYSTEM OF PEDESTRIAN LOCALIZATION	29-Sep-18
31	MP-015-C1	16174758	METHOD AND SYSTEM FOR CREDENTIAL-BASED PEDESTRIAN ROUTING	30-Oct-18
32	MP-008-C1	16190941	MAGNETIC LANDMARK METHOD AND SYSTEM FOR DETECTING IN-BUILDING (LOCAL VENUE) THRESHOLD	14-Nov-18
33	MP-014-C1	16269784	METHOD AND SYSTEM FOR MOBILE DEVICE LOCALIZATION-BASED ACCESS	07-Feb-19
34	MP-020-C1	16519678	METHOD AND SYSTEM FOR LOCALIZING TRACKING DEVICES	23-Jul-19