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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

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Marco Jimenez

INVENTOR(S)

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Michael A. Stephen Angie	SHEHA PETILLI ZEVALLOS	Pasadena, CA Pasadena, CA Pasadena, CA

☐ Additional inventors are being named on the ___ separately numbered sheets attached hereto.

TITLE OF THE INVENTION (280 characters max)

POSITION DETERMINATION SYSTEM

CORRESPONDENCE ADDRESS

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25224

PATENT TRADEMARK OFFICE

☐ Firm or
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ENCLOSED APPLICATION PARTS (check all that apply)

☒ Specification Number of Pages **20**
☒ Drawing(s) Number of Sheets **9**
☒ Application Data Sheet, See 37 CFR 1.76

☐ CD(s), Number _____
☐ Other (specify) _____

METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT

☒ Applicant claims small entity status. See 37 CFR 1.27.
☐ A check or money order is enclosed to cover the filing fees.
☒ The Commissioner is hereby authorized to charge filing fees or credit any overpayment to **Deposit Account No.: 03-1952 (see Fee Transmittal sheet).**
☐ Payment by credit card. Form PTO-2038 is attached.

FILING FEE
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\$75.00

The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.

☒ No.

☐ Yes, the name of the U.S. Government agency and the Government contract number are: _____

Respectfully submitted,

SIGNATURE

TYPED OR PRINTED NAME: **David T. Yang**

TELEPHONE: **(213) 892-5587**

Date: **July 17, 2001**

REGISTRATION NO. **44,415**
(if appropriate)

Docket Number: **513163000100**

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing and submitting the complete provisional application to the PTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Provisional Application, Commissioner for Patents, Washington, D.C. 20231.

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**FEE TRANSMITTAL
FOR FY 2001**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT**(\$)75.00****Complete if Known**

Application Number

Not yet known

Filing Date

Concurrently herewith

First Named Inventor

Michael A. SHEHA

Examiner Name

*

Group Art Unit

*

Attorney Docket No.

513163000100

METHOD OF PAYMENT

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

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- ☒
- Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17

- ☒
- Applicant claims small entity status. See 37 CFR 1.27

- 2.
- ☐
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FEE CALCULATION**1. BASIC FILING FEE**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
101	710	201	355	Utility filing fee	
106	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
114	150	214	75	Provisional filing fee	75

SUBTOTAL (1)**(\$)75.00****2. EXTRA CLAIM FEES**

Total Claims	* -20** =	Extra Claims	Fee from below	Fee Paid
Independent Claims	-3** =	*	x	= \$
Multiple Dependent				= \$

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	80	202	40	Independent claims in excess of 3
104	270	204	135	Multiple dependent claims, if not paid
109	80	209	40	**Reissue independent claims over original patent
110	18	210	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)**(\$)***

** or number previously paid, if greater; For reissues, see above.

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

Large Fee Code	Entity Fee (\$)	Small Fee Code	Entity Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	218	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions of the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per properties (times number of properties)	
146	710	246	355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)**(\$)****SUBMITTED BY**

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(Attorney/Agent)

44,415

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Signature

Date

July 17, 2001

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Initial Information Data Sheet

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la-501148

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Application Information

Title Line One: POSITION DETERMINATION SYSTEM
Total Drawing Sheets: 9
Formal Drawings?: Yes
Application Type: provisional
Docket Number: 513163000100

Representative Information

Representative Customer Number:



25224

PATENT TRADEMARK OFFICE

Continuity Information

This application is a:
> Application One:
Filing Date:

which is a:
>>Application Two:
Filing Date:

which is a:
>>>Application Three:
Filing Date:

Prior Foreign Applications

Foreign Application One:
Filing Date:
Country:
Priority Claimed:

la-501148

POSITION DETERMINATION SYSTEM

BACKGROUND OF THE INVENTION

5 1. Field of Invention

This invention relates to location and navigational systems and to the determination of local and remote position information in ad-hoc landline and wireless systems, including the utilization of unique identification addresses, such as telephone numbers or Internet Protocol (IP) addresses, for such
10 purposes as providing real-time location information, maps, routing, and direction finding.

2. Description of the Related Art

Navigational systems, defined as systems that provide a unit's local position and a way of planning a course around the unit's local position, sometimes to a remote position, such as in-vehicle navigations systems do,
15 are well know in the art. Typically, an in-vehicle navigation system consists of a display screen, processing unit, storage unit, and user input mechanism. The storage system typically contains, for example, maps and travel information used for navigational purposes. Travel information may include
20 such items as points of interest, local restaurants, theaters, municipality locations, and the like.

Determining a local position in a navigation system has typically been done by integrating or connecting Global Positioning System (GPS) technology into the local navigational system. New positioning determination
25 systems include network-assisted wireless location systems, such as TOA (Time-of-Arrival), and network assisted GPS systems for determining the local navigation system's position. The unit's location is then displayed on the device and is available for various applications, such as in the case of a commuter seeking the shortest route to a location in a specific area or a user
30 wanting to find the nearest gas station.

Destination locations are typically determined by manually accessing stored information from a local database or navigational information storage

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