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11035 U.S. PTO
03/19/01

PROVISIONAL APPLICATION FOR PATENT COVER SHEET

Asst. Commissioner for Patents
Box Provisional Application
Washington, DC 20231

Sir:

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

INVENTOR: Given Name	Family Name	Residence
Michael V.	Ryden	62290 Jay Jay Road Montrose, CO 81401

TITLE OF THE INVENTION:

LOCATION BASED COMMUNICATIONS SYSTEM

CORRESPONDENCE ADDRESS:

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60/277117
03/19/01

ENCLOSED APPLICATION PARTS:

- Specification 41 pages. CD's, Number _____.
- Drawings, 12 sheets. Other _____.
- Appln. Data Sheet (see 37 CFR 1.76).

METHOD OF PAYMENT OF FILING FEES

- Applicant claims small entity status (see 37 CFR 1.27).
- Check no. 7843 for \$ 75.00 enclosed.
- The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account No. _____.
- Payment by credit card. Form PTO-2038 is attached.

FILING FEE AMOUNT: \$75.00

The invention was made by an agency of the U.S. Government or under a contract with an agency thereof.

- No
- Yes. The name of agency and contract number are _____

Respectfully submitted,

Signature: Allen H. Erickson
 Name: Allen H. Erickson Registry: 29,792
 Telephone: (352) 341-4803 Docket No: 6190
 Date: March 19, 2001

PATENT
Docket 6190

NOTICE OF EXPRESS MAILING

Express Mail Mailing Label Number: ET286535411US

Date of Deposit with USPS: March 19, 2001

Person mailing Deposit: Allen H. Erickson

Signature *Allen H. Erickson*

PROVISIONAL APPLICATION

for

LOCATION BASED COMMUNICATIONS SYSTEM

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LOCATION BASED COMMUNICATIONS SYSTEM

FIELD OF THE INVENTION

5 The present invention relates generally to
communications systems. More particularly, the invention
pertains to apparatus and methods for enhanced local and
wide-area communications between stationary and/or roving
telephone units on land, at sea, and in the air.

BACKGROUND OF THE INVENTION

10 A variety of wireless communications systems are used
to provide voice and data transmission to and from
subscriber telephonic units within a prescribed geographic
area. Analog cellular systems such as those designated as
15 AMPS, ETACS, MMT-450 and MMT-900 have been deployed
throughout the world. Subsequently, digital cellular
systems have become common, and include the so-called
personal communications system (PCS) including those denoted
as IS-95m OCS-1900, PACS, DCS-1800, DECT, PHS and other
20 names. PCS systems generally utilize a radio frequency band
of about 2 gigahertz (Ghz) for both voice and data
transmission.

25 In a conventional terrestrial wireless communication
system, wireless mobile terminals, i.e. cellular phones may
communicate with a plurality of cells served by base
stations and a mobile telephone switching office.
Communication is enabled between mobile telephones and

between a mobile telephone and a land line terminal, e.g. conventional telephone or computer.

5 Celestial wireless communications systems are known, and comprise typically a plurality of earth satellites that serve as transponders or relays for radio communications between earth stations and wireless satellite mobile terminals. Such cellular systems may utilize a single antenna beam covering the entire area served by the system, or alternatively, the system may produce multiple beams
10 (with minimal overlap), each beam serving a distinct geographic coverage area within the service region. Thus, a satellite and coverage area serve the same purpose as a base station and a cell of a non-satellite cellular communications system.

15 Various systems for locating one's earth position are in place including the well-known Global Positioning System (GPS). In this application, electronic position locating systems will be referred to generically as physical location systems (PLS).

20 Various methods and apparatus for integrating a physical location system (PLS) such as a global position satellite system (GPS) with a satellite communications system are described in the patent literature, as noted below.

25 In U.S. Patent No. 5,448,623 of Wiedeman et al., a satellite communications system is disclosed having a network of gateways which interface with a terrestrial communications system.

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