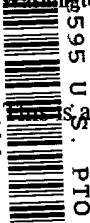


# PROVISIONAL APPLICATION COVER SHEET

*APPROV*

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I request for filing a PROVISIONAL APPLICATION under 37 C.F.R. 1.53 (b) (2).

Docket Number	945.011PRV	Type a plus sign (+) inside this box >	+
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INVENTOR(s)/APPLICANT(s)			
Name (last, first, middle initial)		RESIDENCE (CITY, AND EITHER STATE OR FOREIGN COUNTRY)	
Menard, Raymond J.		Bloomington, Minnesota	
TITLE OF THE INVENTION (280 characters max)			
LOW POWER TWO-WAY LONG RANGE SECURITY SYSTEM			
CORRESPONDENCE ADDRESS			
Schwegman, Lundberg, Woessner & Kluth P. O. Box 2938 Minneapolis, Minnesota 55402 Attn: <u>Timothy E. Bianchi</u>			
STATE	Minnesota	ZIP CODE	55402
COUNTRY	United States of America		
ENCLOSED APPLICATION PARTS (check all that apply)			
<input checked="" type="checkbox"/> XXX	Specification	Number of Pages	<u>10</u>
<input type="checkbox"/>			Small Entity Statement
<input checked="" type="checkbox"/> XXX	Drawing(s)	Number of Sheets	<u>2</u>
<input type="checkbox"/>			Other (specify) _____
METHOD OF PAYMENT (check one)			
<input checked="" type="checkbox"/> XXX	A check or money order is enclosed to cover the Provisional filing fees		PROVISIONAL FILING FEE AMOUNT
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1595 U.S. PTO  
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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 *Timothy E. Bianchi*

Date October 23, 1998

TYPED OR PRINTED NAME Timothy E. Bianchi

REGISTRATION NO. 39,610

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

## PROVISIONAL APPLICATION FILING ONLY

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re **PROVISIONAL** Patent Application of: Raymond J. Menard

Title: LOW POWER TWO-WAY LONG RANGE SECURITY SYSTEM

Docket No.: 945.011PRV

**BOX PROVISIONAL APPLICATION**

Assistant Commissioner for Patents

Washington, D.C. 20231

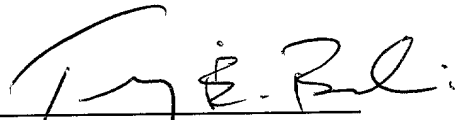
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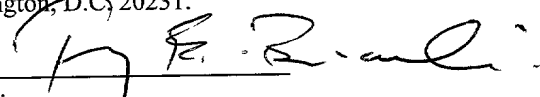
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*Express Mail EM 000 817 307 US*

Provisional Patent Application

Attorney Docket 00279.011PRV

## **Low Power Two-Way Long Range Security System**

### **Field of the Invention**

The present invention relates generally to security systems and in particular to two-way long range security systems.

### **Background of the Invention**

The provision of a security system generally requires several components and a rather complex installation. For example, there may be a set of detection devices which may be hard wired or wireless to an additional component – a short range wireless receiver, a user interface, a transmission system, a local annunciator like a horn or flashing light, and a control panel to which all of the above components are connected. Every component and device adds cost and complexity to the system. As a result, most security systems require professional installation and setup.

Some of the current designs try to integrate all of the components and devices in a single enclosure or case. However, much of the complexity and cost remains since most of the devices and components are still in use.

As a result, very low market penetration exists for reasons associated with current design, which include, but are not limited to, a requirement for professional design and for professional installation. These reasons make do-it-yourself systems relatively poor sellers and even several major consumer electronic companies such as Magnavox, Zenith, Radio Shack and others have had little success or outright failure with an over the counter product. Furthermore, correct installation of a standard security system requires a special phone jack (RJ-31X) installed at the correct location (before any premise equipment is connected to the line) to assure the availability of the phone line. This may require a telephone company or other professional.

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Thus, there is a need in the art for an improved security system using a minimal amount of components and which provides security without the high costs associated with professional design and installation.

### Summary of the Invention

One skilled in the art will readily recognize that the present system solves the foregoing need in the art and other needs.

In one embodiment, the present security system provides, among other things, the replacement of any or all of the traditional user interface, transmission system, and control panel as listed above, through the use of a long-range, two-way, wireless communication device such as a two-way pager. Accordingly, a person who owns a two-way pager can, for a much lower cost than is customary, own a security system incorporating an additional paging/detection device. This embodiment of the system has the advantages including, but not limited to, simple installation, highly secure built-in signal transmission, long range wireless user interface and long range system status annunciation. Currently, some security systems communicate with a central station that manages the response function. However, this embodiment of the present system offers yet another advantage by providing for communication direct to the system owner who can then select the desired response. In one embodiment, the direct communications are optional, so that the owner may select the central station approach or direct communications without the assistance or services of the central station. Thus, the present system provides, among other things, instant and affordable protection for a wide variety of applications such as construction sites, vehicles, motel rooms, apartments, and small residential and commercial properties.

Furthermore, in one embodiment, the system incorporates low power components to provide the advantage of being able to operate solely on battery power.

Thus, the present system, in various embodiments, offers advantages over a standard security alarm system which include, but are not limited to, low cost, easy, instantaneous installation by an ordinary consumer, reliable communications without connection to or interruption of the site telephone lines, long range control by the user,

long range communication of alarm conditions to a user, long range wireless communication to a central station as an included option, no necessity to connect to a central station with its attendant monthly costs (if the user desires to monitor their system themselves), and no need for a permanent power supply. Thus, the system various embodiments offers a portable security system providing protection for a variety of applications including, but not limited to, homes and businesses and to applications without available power or phone lines like vehicles and construction sites.

### **Brief Description of the Drawing**

Fig. 1 is a diagram showing a user controlling their security system from a distance, according to one embodiment of the present system.

Fig. 2 is a block diagram showing the components of a basic system, according to one embodiment of the present system.

### **Detailed Description**

The security industry has developed numerous types of detection devices for monitoring many types of conditions. These detection devices feature an output which changes state upon detection of the event being monitored by the detection device.

One embodiment of the present uses the output of such detection devices and connects them as an input signal for a two-way, long-range, wireless communicator such as one employing two-way paging, cell phone type transmitter, cellemetry, PCS or other similar device. The detection devices include, but are not limited to, motion detectors, smoke detector, or a loop(s) of detection devices to detect a condition or occurrence and provide an output. The outputs may be signaled by changes in voltage, impedance, current, magnetic field, electromagnetic energy such as radio frequency signals, infrared signals or optical signals, and audible or other forms of mechanical energy. Several embodiments are possible and the examples given herein are not intended in a limiting or restrictive sense.

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