Openings and closings of a secured storage receptacle (60) are logged to record the transfer of items. The system gains access to a signal-transmitting receptacle; transmits a first confirmation signal to a mobile transmission node (61); processes the first confirmation signal at the mobile transmission node (61); transmits a second confirmation signal to a central server (64); and notifies a consumer of the delivery with an electronic message (66). This process allows the transfer of items by a delivery confirmation signals to be received from the signal-transmitting receptacle (60). The signal transmitted from the signal-transmitting receptacle (60) is coupled to the opening and closing of the storage box.
FIG. 3

30 CONSUMER ORDERS SERVICE REGARDING RETAIL GOOD

31 DELIVERY CARRIER PICKS UP RETAIL GOOD

32 PICKUP NOTIFICATION SENT VIA WIRELESS TRANSMISSION, CENTRAL SERVER AND COMPUTER NETWORK

33 RETAIL GOOD SERVICED AND DELIVERY CARRIER DELIVERS TO THE CONSUMER

34 DELIVERY NOTIFICATION SENT VIA WIRELESS TRANSMISSION, CENTRAL SERVER AND COMPUTER NETWORK

35 CONSUMER OBTAINS SERVICED RETAIL GOOD
FIG. 4
COMPUTERIZED RECORDING AND
NOTIFICATION OF THE DELIVERY AND PICKUP
OF RETAIL GOODS

CROSS REFERENCE TO RELATED
APPLICATIONS

[0001] This application claims priority from and incorpo-
rates by reference U.S. application Nos. 60/209,149 filed
Jun. 3, 2001; 60/228,555 filed Aug. 28, 2000; and 60/245,
504 filed on Nov. 2, 2000.

BACKGROUND OF THE INVENTION

[0002] The present invention relates to the secure transfer
of retail goods to a consumer and using a wireless com-
unication system and a computer network to notify the
consumer of such transfer via an electronic message.

[0003] With demands on people’s time seemingly increas-
ing without end, people are always pursuing ways to effi-
ciently accomplish simple, time consuming tasks. Many of
these tasks involve shopping trips where only one or two
items are immediately needed. Accordingly, services which
can deliver goods to a consumer’s residence in a short period
of time are highly desirable.

[0004] The delivery of goods to a consumer’s residence,
such as through an express mail service, has proven to be
problematic at times. Often times, a delivery will be
attempted when nobody is home. In such a circumstance, the
package can be left outside the residence where it is sus-
ceptible to theft, or the package can be taken back with the
delivery carrier and delivery attempted at another time.
Accordingly, efforts have been made to facilitate the deliv-
ery of goods through secured receptacles which would allow
parcels to be left at a residence without the threat of theft.

[0005] In U.S. Pat. No. 6,138,910, a secured receptacle is
disclosed in which a parcel delivered through the mail may
be deposited. The secured receptacle also possesses a
machine-readable indicium which allows a central server
and a paging receiver to notify a person about the delivery
of a parcel. A computerized delivery-acceptance system is
described in U.S. Pat. No. 5,979,750 in which a computer-
controlled access or locking mechanism guarantees secure
delivery of packages.

[0006] Notification of the delivery of a parcel is also
desirable in some circumstances. Several methods and
devices are known in the art which serve this purpose. In
U.S. Pat. No. 5,786,748, a method is provided for the
notification of the delivery of express mail through a wire-
less page message. In U.S. Pat. No. 5,247,282, an audible or
visual signal is generated within a dwelling when mail
delivery has been made to that residence.

[0007] A storage device that secures goods from theft and
exposure to the elements and also provides notification that
items have been delivered or removed from the device is
disclosed in U.S. Pat. No. 5,774,053. In the preferred
embodiment of the invention, a key pad is located on the
storage device which allows access through the entry of a
specific code. Each specific vendor is given a unique code
thereby allowing the owner of the box to be notified of
which vendor had visited the storage device. Notifying the
owner that a delivery has been made to a storage device
occurs through transmitting the vendor code to a remote
location through a telecommunications network.

[0008] A previous approach to some of these concerns is
described in PCT publication WO 01/27740, published Apr.
19, 2001, assigned to the same assignee as the present
application, which publication is hereby incorporated herein
by reference.

SUMMARY OF THE INVENTION

[0009] The present invention is directed towards the log-
ing of openings and closings of a secured storage recep-
tacle to record the transfer of items. The method encom-
passed by the present invention comprises the following steps:

[0010] (a) gaining access to a signal-transmitting
receptacle;

[0011] (b) transmitting a first confirmation signal to a
mobile transmission node;

[0012] (c) processing the first confirmation signal at
the mobile transmission node;

[0013] (c) transmitting a second confirmation signal
to a central server; and

[0014] (d) notifying a consumer of the delivery with
an electronic message.

[0015] The above process allows the transfer of items by
a delivery carrier using a delivery truck equipped with
central processing unit that allows delivery confirmation
signals to be received from the signal-transmitting recep-
tacle. The signal transmitted from the signal-transmitting
receptacle is coupled to the opening and closing of the
e-box.

[0016] Once a transfer of items has been confirmed by the
central processing unit, a signal is sent from the delivery
truck to a remote central server. The central server is
connected to the Internet, allowing the consumer to be
notified about the transfer through an email message, a
posting on a web site, or through an electronic panel within
the consumer’s residence.

[0017] The present invention also encompasses a comput-
erized package transfer system for logging a transfer of a
retail good, the computerized package transfer system com-
prising:

[0018] (a) a signal-transmitting receptacle;

[0019] (b) a central server;

[0020] (c) a wireless transmission path from the
signal-transmitting receptacle to the central server
for transmitting a transfer confirmation signal from the
signal-transmitting receptacle to the central
server; and

[0021] (d) a computer network system connected to
the central server.

[0022] In the present invention, the wireless transmission
path includes at least one transmission node, namely the
delivery vehicle which is capable of receiving and transmit-
ting transfer confirmation signals.
DESCRIPTION OF THE DRAWINGS

[0023] The invention will be described with respect to a drawing in several figures, of which:

[0024] FIG. 1 is a flowchart showing a method according to the invention for logging the transfer of a retail good delivered to a consumer;

[0025] FIG. 2 is a flowchart showing a method according to the invention for logging the transfer of a retail good involved in a return;

[0026] FIG. 3 is a flowchart showing a method according to the invention for logging the transfer of a retail good that is the object of a service; and

[0027] FIG. 4 shows in functional block diagram form the passage of messages in a system according to the invention.

DETAILED DESCRIPTION OF THE INVENTION

[0028] The present invention is directed to the transfer of retail goods where the consumer is subsequently notified that such transfer has occurred. The notification of the consumer is facilitated through a series of wireless communications and a subsequent electronic communication.

[0029] A retail good in the present invention comprises any good or service that a consumer can purchase remotely, such as through the Internet or over the telephone, and involves the delivery or pickup of a tangible item. Such retail goods, for example, include perishable and packaged dry goods. In addition, retail goods include items associated with convenience services. For example, movie rentals and the dry cleaning of clothing are retail goods as envisioned in this invention, although such "products" are closely related to the performance of a service. The present invention contemplates a retail good as anything which can be delivered and picked up at a consumer’s residence by a delivery carrier and stored in a signal-transmitting receptacle shown at 60 in FIG. 4. Thus, the present invention contemplates the transfer of retail goods, which includes not only the delivery of items, but also the pickup of items.

[0030] The signal-transmitting receptacle also serves as a secured receptacle in order to ensure the safe and reliable delivery of retail goods. There are no limitations on the size of the receptacle other than that the receptacle must be large enough to accommodate the delivery of retail goods. Securing the receptacle involves two variables: securing the interior so that the contents of the receptacle remain safe, and securing the receptacle itself so as to minimize risk of theft regarding the receptacle itself.

[0031] Securing the receptacle itself may be accomplished by many means, such as attaching the receptacle to the exterior side of a house or bolting the bottom of the interior to the ground. However, the preferred embodiment of the invention is to secure the bottom of the receptacle to a separate platform base that has a large weight, such as 120 pounds. A platform base of this mass allows the receptacle to be moved relatively easy, yet provides a sufficient deterrent to theft.

[0032] The receptacle possesses a locking means to prevent unauthorized access to the receptacle. Several different locking means exist, such as a simple lock and key. In the preferred embodiment of the invention, consumers and delivery carriers use a wireless key to unlock the receptacle. A wireless key may preferably be any type of electronic device known in the art that is capable of transmitting an ultra-low frequency radio wave, whereby the ultra-low frequency radio wave consists of an unlocking signal that is received by a receiving means attached to the receptacle.

[0033] The wireless key transmits the unlocking signal which is accepted by the receiving means of the receptacle. While any type of receiving means known in the art can be used, the preferred embodiment is a two-way wireless link which receives the unlocking signal, processes the signal, and inactivates the lock.

[0034] While those skilled in the art will recognize that many different electronic embodiments are possible to produce a device that comprises a wireless key, the preferred embodiment is conveniently shaped to be about the size of a credit card. The wireless key possesses an integrated circuit that controls the transmission of the unlocking signal to the receptacle, and a programmable memory for storing the unlocking signal for a delivery carrier or consumer. A programming device is used to program the specific unlocking signal that will be transmitted by the wireless key.

[0035] Several types of wireless keys are possible, but the preferred embodiments are a standard wireless key, a high security key and a delivery key. The standard wireless key possess an "open" button that enables any person possessing that wireless key to gain access to the receptacle. The high security wireless key possesses a number pad or key pad for entering a personal identification number. A high security wireless key ensures that mere possession of a wireless key does not permit access to the receptacle and that the person accessing the receptacle must possess an appropriate personal identification number. A delivery wireless key allows a delivery carrier, who needs access to many different receptacles, to conveniently access different receptacles with only one key.

[0036] A delivery of the retail good occurs by a delivery carrier and a delivery vehicle, shown at 61 in FIG. 4. A delivery is made when the delivery carrier gains access to a consumer’s receptacle using the delivery wireless key, opens the lid, places the retail goods in the receptacle, and secures the receptacle by closing the lid. Upon completing the delivery of the retail goods, a series of wireless signals is transmitted from the receptacle to a central server. The central server records the delivery and then sends an electronic communication to the consumer regarding the delivery.

[0037] Transmitting the series of wireless signals which notify the central server of the delivery can occur by various means. For instance, a delivery carrier could use a cellular phone, call a telecommunications-central server system, and enter a numerical code indicating the completion of a delivery. The central server would then receive the confirmation numerical code and such confirmation would be recorded by the central server. In this case, only one transmission of a wireless signal in the series of wireless transmissions occurs.

[0038] The preferred embodiment of the present invention involves the transmission of two wireless signals. The first wireless signal (62 in FIG. 4) is transmitted by way of a
printed circuit board with the two-way wireless link that operates at a (preferably) ultra-low frequency. A first antenna integrated with the circuit board receives signals from the wireless key and also transmits the first wireless signal. A “D” size alkaline battery is used to power this end of the two-way wireless link.

[0039] The first wireless signal is received by a second antenna coupled with a central processing unit on the delivery carrier’s vehicle, shown at 61 in FIG. 4. The central processing unit can be of any kind known in the art, so long as the central processing unit possesses an input means, such as a keyboard or key pad, and an output means, such as a monitor. In a preferred embodiment, the system is used by the delivery carrier to confirm information regarding the delivery, including time, date, and items delivered. Such information is then transmitted by a second wireless transmission (63 in FIG. 4) from the central processing unit 61 to the central server 64. The second wireless transmission may be made by any means known in the art, with the preferred embodiment employing a cellular wireless network, such as the Mobitex network via a RIM 920M Radio Modem that is manufactured by Research in Motion, Ltd.

[0040] The second transmission, preferably wireless, can be received by any type of computer system which can process the wireless transmission and record the information associated with the delivery. The preferred embodiment of the invention contemplates a central server that comprises software to handle order taking as well as merchandise returns.

[0041] In yet another embodiment, a status panel (65 in FIG. 4) is installed at the customer’s premises. The status panel is communicatively coupled to the central computer system according to the invention, for example by means of the Internet. The status panel is able to receive signals from the secure receptacle. It may then pass along information from such signals to the central computer system.

[0042] Once a transfer of items has been confirmed by the central processing unit, a signal is sent from the delivery truck to a remote central server. The central server is connected to the Internet, allowing the consumer to be notified about the transfer through an email message (66 in FIG. 4), a posting on a web site (67 in FIG. 4), or through an electronic panel within the consumer’s residence (65 in FIG. 4).

[0043] The reason for the use of two links will now be described. The transmitter in the box is, as mentioned above, powered by a battery. The battery may be replaceable or may be integrally packaged with the rest of the box. In either case, battery life is a significant concern. The energy budget of the system necessarily includes the energy involved in transmitting data signals from the box to points outside of the box. Depending on antenna configuration and other factors, the amount of power required to transmit a signal to a particular distance may increase as the square of that distance. Indeed for some antenna designs (those approximating a dipole) the power required may increase as the cube of the distance. As a consequence, the system according to the invention attempts to maximize battery life by minimizing the distance over which the first wireless signal needs to be propagated. Most importantly, the communications path from the box to a central computer has at least two links—a first wireless link spanning a limited distance, and a second link spanning a much greater distance.

[0044] The delivery truck, which is one choice for the “relay” point between the box and the central system, has a power supply that is large compared with that of the box. This permits wireless transmissions from the truck at far higher power levels than from the box. Similarly, if a receiver in the customer premises is employed as the relay point, it too is likely to have a much larger power supply, such as an AC adaptor connected to the electric power of the house.

[0045] It will be appreciated that in the system according to the invention, it is helpful to know whether the box is able to reach the truck or the residential relay point. For this reason, the system preferably has a “test mode” which can be selected, typically at the time of initial installation of the box. In test mode, the box is open, and then closed. Closing the box prompts the box to transmit a signal. If the signal is received, then an announcement is provided, for example an audible signal. The installer listens for the signal. If the signal is not heard, then the installer may consider repositioning the box, checking its battery, or installing a different box, perhaps one with a different antenna configuration.

[0046] As mentioned above, the customer may be notified of the delivery through any type of messaging known in the art. Such methods include paging or a recorded telephone message. The preferred embodiment of the current invention contemplates the sending of one or more of the following electronic messages to notify the consumer of the delivery: 1) an email message that is sent to the customer, 2) an electronic message that is posted on a web site wherein the customer can gain access to the web site and view the electronic message, and 3) an electronic message that may be posted to an electronic panel located within the customer’s residence.

[0047] In one embodiment, the present invention is directed at a method and system for logging the transfer of a retail good. In one embodiment of the invention, a consumer purchases from a seller a retail good by via a telecommunications means, such as the Internet. This is shown for example at 10 in FIGS. 1 or 2. The seller subsequently sends a purchase confirmation e-mail message to the consumer. To deliver the retail good, a delivery vehicle is dispatched to a signal-transmitting receptacle that is used by the consumer.

[0048] The delivery carrier gains access to the signal-transmitting receptacle by use of a delivery access key. The delivery carrier places the retail good in the signal-transmitting receptacle and closes the signal-transmitting receptacle. This is shown at 11 in FIGS. 1 or 2. After closing the receptacle, a first wireless signal is transmitted from the signal-transmitting receptacle via a two-way wireless link.

[0049] The first wireless signal is received by a transmission node on the delivery truck, the transmission node comprising a central processing unit and an antenna. The central processing unit on the delivery truck presents to the delivery carrier information regarding the delivery, such as a date and a time of the delivery and a serial number associated with the delivery wireless key used by the delivery carrier to gain access to the receptacle. Upon the confirming the data, the delivery information is transmitted through a second wireless signal via a cellular wireless network from the central processing unit to a central server. This is shown at 12 in FIGS. 1 or 2.
[0050] The consumer is notified of the delivery from the
central server by an electronic message, such as an e-mail,
a message on the status panel, or a posting on a web site. The
consumer subsequently gains access to the signal-transmit-
ing receptacle with a user wireless access key. The con-
sumer removes the retail good from the receptacle, closes
the receptacle, and, inspects the retail good. This is shown at
13 in FIG. 1.

[0051] Upon discovering the retail good need to be
returned for some reason, the consumer informs the seller
the retail good needs to be returned to the seller. This is
shown at 14 in FIG. 2. The seller acknowledges that the
retail good will be accepted for return by the seller. There-
after, the consumer gains access to the receptacle with the
user wireless key, places the retail good to be returned in the
receptacle by the consumer, and closes the receptacle.

[0052] The delivery carrier drives the delivery vehicle to
the receptacle used by the consumer and gains access to the
receptacle using the delivery wireless key. The delivery
carrier removes the retail good from the receptacle and
closes the receptacle. This is shown at 15 in FIG. 2.

[0053] Upon closing the receptacle, the first wireless sig-
nal is received by the transmission node on the delivery
truck. The central processing unit on the delivery truck
presents to the delivery carrier information regarding the
pickup, such as a date and a time of the pickup and a serial
number associated with the delivery wireless key used by
the delivery carrier to gain access to the receptacle.

[0054] Upon confirming the data, the delivery infor-
mation is transmitted through the second wireless signal via
the cellular wireless network from the central processing
unit to the central server. The consumer is notified of the
pickup from the central server by an electronic message,
such as an e-mail, a message on the status panel, or a posting
on a web site. This is shown at 16 in FIG. 2.

[0055] In another embodiment, the present invention is
directed at a method and system for logging a transfer of a
retail good that is associated with a service provided by a
seller, such as dry cleaning. In one embodiment of the
invention, a consumer purchases a service through the
Internet or a telephone order from a seller wherein the seller
will perform a service upon the retail good of the consumer.
This is shown at 30 in FIG. 3. For instance, the consumer
may wish to have the seller dry clean a suit.

[0056] Upon receiving the order, the seller sends a pur-
chase confirmation e-mail message to the consumer. The
consumer then gains access to a signal-transmitting recep-
tacle by a user wireless key. The consumer then places the
retail good in the receptacle and closes the receptacle.

[0057] A delivery vehicle is dispatched by the seller and is
driven by a delivery carrier to the receptacle used by the
consumer. The delivery carrier gains access to the receptacle
by using a delivery wireless key. The delivery carrier
removes the retail good in the receptacle and closes the
receptacle. This is shown at 31 in FIG. 3.

[0058] Upon closing the receptacle, a first wireless signal
from the receptacle is transmitted via a two-way wireless
link. The first wireless signal is received by a transmission
node on the delivery truck, comprising a central processing
unit and an antenna. The central processing unit confirms a
plurality of data comprising a date and a time of a transfer
of the retail good and a serial number associated with the
delivery wireless key used by the delivery carrier to gain
access to the receptacle. This is shown at 32 in FIG. 3.

[0059] When the information is confirmed, the plurality of
data is transmitted through a second wireless signal via a
cellular wireless network from the central processing unit to
a central server. The consumer of the transfer from the
central server by an electronic message, such as an e-mail,
a posting on a web site, and a message on a status panel at
the consumer’s residence.

[0060] After receiving the retail good, the seller performs
the service involving the retail good. Thereafter, the delivery
carrier drives the delivery vehicle to the receptacle used by
the consumer to return the retail good. The delivery carrier
gains access to the receptacle using the delivery wireless
key, places the retail good in the receptacle, and closes the
receptacle. This is shown at 33 in FIG. 3.

[0061] When the receptacle is closed, the first wireless
signal from the receptacle is transmitted via the two-way
wireless link. The first wireless signal is received by the
transmission node on the delivery truck. The central pro-
cessing unit confirms the plurality of data comprising the
date and the time of the transfer of the retail good and the
serial number associated with the delivery wireless key used
by the delivery carrier to gain access to the receptacle.

[0062] When the information is confirmed, the plurality of
data is transmitted through the second wireless signal via the
cellular wireless network from the central processing unit to
the central server. The consumer learns of the transfer from
the central server by an electronic message, such as an
e-mail, a posting on a web site, and a message on a status
panel at the consumer’s residence. This is shown at 34 in
FIG. 3. The consumer then gains access to the receptacle
with the user wireless key, removes the retail good from the
receptacle, and closes the receptacle to complete the trans-
action. This is shown at 35 in FIG. 3.

[0063] Those skilled in the art will have no difficulty
devising myriad obvious improvements and variations, all of
which are intended to fall within the scope of the invention
as defined by the claims that follow.

I claim:

1. A method for logging the transfer of a retail good, the
method performed with respect to a signal-transmitting
receptacle, the receptacle having a lid, the method comprising
the steps of:

(a) purchasing from a seller the retail good by a consumer
via a telecommunications means;

(b) driving a delivery vehicle by a delivery carrier to the
signal-transmitting receptacle;

(c) gaining access to the signal-transmitting receptacle by
the delivery carrier using a delivery wireless key;

(d) opening the lid of the receptacle by the delivery
carrier;

(e) transmitting a first wireless signal from the signal-
transmitting receptacle via a wireless link;

(f) placing the retail good in the signal-transmitting recep-
tacle by the delivery carrier;
(g) closing the lid signal-transmitting receptacle by the delivery carrier, defining a transfer;

(h) transmitting a second wireless signal from the signal-transmitting receptacle via a wireless link;

(i) receiving the second wireless signal by a first transmission node, said transmission node comprising a central processing unit and an antenna;

(j) noting by the central processing unit a plurality of data comprising a date and a time associated with the received second wireless signal;

(k) transmitting the plurality of data through a communicative means from the central processing unit to a central server;

(l) notifying the consumer of the transfer from the central server by an electronic message;

(m) gaining access to the signal-transmitting receptacle with a user wireless key by the consumer;

(n) opening the lid of the receptacle by the consumer;

(o) transmitting a third wireless signal from the signal-transmitting receptacle via the wireless link;

(p) removing the retail good from the signal-transmitting receptacle by the consumer;

(q) closing the lid of the signal-transmitting receptacle by the consumer;

(r) transmitting a fourth wireless signal from the signal-transmitting receptacle via the wireless link;

(s) inspecting the retail good by the consumer;

(t) informing the seller the consumer desires the retail good to be returned to the seller;

(u) gaining access to the signal-transmitting receptacle with the user wireless key by the consumer;

(v) opening the lid of the receptacle by the consumer;

(w) transmitting a fifth wireless signal from the signal-transmitting receptacle via the wireless link;

(x) placing the retail good in the signal-transmitting receptacle by the consumer;

(y) closing the lid of the signal-transmitting receptacle by the consumer;

(z) transmitting a sixth wireless signal from the signal-transmitting receptacle via the wireless link;

(aa) driving the delivery vehicle by the delivery carrier to the signal-transmitting receptacle used by the consumer;

(bb) gaining access to the signal-transmitting receptacle by the delivery carrier using the delivery wireless key;

(cc) opening the lid of the receptacle by the delivery carrier;

(dd) transmitting a seventh wireless signal from the signal-transmitting receptacle via the wireless link;

(ee) removing the retail good in the signal-transmitting receptacle by the delivery carrier;

(ff) closing the signal-transmitting receptacle by the delivery carrier;

(gg) transmitting an eighth wireless signal from the signal-transmitting receptacle via the wireless link;

(hh) receiving the eighth wireless signal by the transmission node on the delivery truck;

(ii) confirming by the central processing unit on the delivery truck the plurality of data comprising the date and the time of the transfer of the retail good;

(jj) transmitting the plurality of data through the second signal from the central processing unit to the central server.

2. The method of claim 1 wherein the first transmission node is the delivery truck and the communicative means is a wireless link.

3. The method of claim 1 wherein the first transmission node is equipment at the customer premises.

4. The method of claim 1 further comprising the step of notifying the consumer of the transfer from the central server by an electronic messaging.

5. A computerized package transfer system for logging a transfer of a retail good, the computerized package transfer system comprising:

(a) a signal-transmitting receptacle comprising a secured package container for protecting the transfer of a retail good;

(b) a central server;

(c) a wireless transmission path from the signal-transmitting receptacle to the central server for transmitting a transfer confirmation signal from the signal-transmitting receptacle to the central server; and

(d) a computer network system communicatively coupled to the central server, the network system comprising notification means.

6. The computerized package transfer system of claim 5, wherein the secured package container comprises a lock, a wireless access key physically separate from the receptacle, and a two-way wireless link to the central server.

7. The computerized package transfer system of claim 6, wherein the wireless access key comprises a button and a programmable memory that allows an unlocking signal to be transmitted upon the pushing of the button, thereby providing a wireless key for gaining access to the secured package container by the consumer or a delivery carrier.

8. The computerized package transfer system of claim 6, wherein the wireless user key comprises a numeric keypad and the programmable memory that allows the unlocking signal to be transmitted upon entering a personal identification number, thereby providing a high security wireless key for gaining access to the secured package container by the consumer.

9. The computerized package transfer system of claim 6 wherein the receptacle comprises a housing, and wherein the two-way wireless link comprises a printed circuit board and a first antenna integrated with the housing, whereby the two-way wireless link can receive the unlocking signal and transmit the transfer confirmation signal.
10. The computerized package transfer system of claim 5, wherein the wireless transmission path comprises:
   (a) A first transmit path originating from the two-way wireless link;
   (b) A first transmission node, said node positioned at a receiving end of the first transmit path; and
   (c) A second transmit path originating from the first transmission node and ending at the central server.
11. The computerized package transfer system of claim 10, wherein the first transmission node comprises a central processing unit and a second antenna, whereby the two-way link transmits the transfer confirmation signal along the first transmit path to the central processing unit by way of the first integrated antenna and the second antenna.
12. The computerized package transfer system of claim 11, wherein the first transmission node further comprises a delivery vehicle, whereby said delivery vehicle is driven by the delivery carrier.
13. The computerized package transfer system of claim 10, wherein the central server further comprises a third antenna.
14. The computerized package transfer system of claim 5, wherein the computer network system comprises the central server and the Internet, thereby allowing an electronic message to be posted on a web site or in an e-mail to the consumer, the posting or sending comprising the notification means.
15. The computerized package transfer system of claim 5, wherein the notification means comprises a status panel at a consumer's residence.
16. A method for logging a transfer of a retail good, comprising the steps of:
   (a) gaining access to a signal-transmitting receptacle comprising a secure housing having a lid;
   (b) transmitting a first confirmation signal wirelessly to a mobile transmission node upon opening or closing of the lid;
   (c) processing the first confirmation signal at the mobile transmission node;
   (d) transmitting a second confirmation signal to a central server; and
   (d) notifying a consumer of the transfer with an electronic message.
17. The method of claim 16, wherein the gaining access step includes a delivery carrier unlocking the signal-transmitting receptacle.
18. The method of claim 17, wherein the unlocking step further comprises the step of the delivery carrier using a wireless key that transmits an unlocking signal to the signal-transmitting receptacle.
19. The method of claim 16, wherein the step of processing the first confirmation signal further comprises the step of the delivery carrier checking data regarding the transfer comprising the date, time, and items transferred.
20. The method of claim 16, wherein the step of notifying the consumer comprises the step of sending an e-mail message to the consumer.
21. The method of claim 16, wherein the step of notifying the consumer comprises the step of posting a message on a web site accessible to the consumer.
22. The method of claim 16, wherein the step of notifying the consumer comprises the step of posting a message on a status panel at a consumer's residence.
23. A method for logging a transfer of a retail product, comprising the steps of:
   (a) gaining access to a signal-transmitting receptacle by a delivery carrier using a wireless key;
   (b) placing the retail good in the signal-transmitting receptacle by the delivery carrier;
   (c) closing the signal-transmitting receptacle by the delivery carrier;
   (d) transmitting a first wireless signal from the signal-transmitting receptacle via a two-way wireless link;
   (e) receiving the first wireless signal by a transmission node on a delivery truck;
   (f) confirming by a central processing unit on the delivery truck a plurality of data comprising a date and a time of a transfer of the retail good;
   (g) transmitting the plurality of data through a second wireless signal from the delivery truck to a central server; and
   (h) notifying the consumer of the transfer from the central server.
24. A method for logging a transfer of a retail good, comprising the steps of:
   (a) purchasing from a seller a service associated with the retail good by a consumer via a telecommunications means;
   (b) gaining access to a signal-transmitting receptacle used by the consumer with a user wireless key by the consumer;
   (c) placing the retail good in the signal-transmitting receptacle by the consumer;
   (d) closing the signal-transmitting receptacle by the consumer;
   (e) driving a delivery vehicle by a delivery carrier to the signal-transmitting receptacle used by the consumer;
   (f) gaining access to the signal-transmitting receptacle by the delivery carrier using a delivery wireless key;
   (g) removing the retail good in the signal-transmitting receptacle by the delivery carrier;
   (h) closing the signal-transmitting receptacle by the delivery carrier;
   (k) transmitting a first wireless signal from the signal-transmitting receptacle via a two-way wireless link;
   (l) receiving the first wireless signal by a transmission node on the delivery truck;
   (m) confirming by the central processing unit on the delivery truck a plurality of data comprising a date and a time of a transfer of the retail good;
   (n) transmitting the plurality of data through a second wireless signal delivery truck to a central server;
   (o) notifying the consumer of the transfer from the central server by an electronic message;
(p) performing an act comprising the service upon the retail good by the seller;

(q) driving the delivery vehicle by the delivery carrier to the signal-transmitting receptacle used by the consumer;

(r) gaining access to the signal-transmitting receptacle by the delivery carrier using the delivery wireless key;

(s) placing the retail good in the signal-transmitting receptacle by the delivery carrier;

(t) closing the signal-transmitting receptacle by the delivery carrier;

(u) transmitting a third wireless signal from the signal-transmitting receptacle via the two-way wireless link;

(v) receiving the third wireless signal by the transmission node on the delivery truck;

(w) confirming by the central processing unit on the delivery truck the plurality of data comprising the date and the time of the transfer of the retail good;

(x) transmitting the plurality of data through a fourth wireless signal from the delivery truck to the central server;

(y) notifying the consumer of the transfer from the central server by an electronic message;

(z) gaining access to the signal-transmitting receptacle with the user wireless key by the consumer;

(aa) removing the retail good from the signal-transmitting receptacle by the consumer; and

(bb) closing the signal-transmitting receptacle by the consumer.

25. The method of claim 24 wherein the retail good comprises an item to be laundered or dry cleaned.

26. A method for testing the installation of a box with respect to a receiver, the receiver disposed to annunciate in the event of receipt of a first signal, the box having a lid, the box further comprising a transmitter and an antenna, the method comprising the steps of:

   closing the lid;
   transmitting a signal from the box;
   noting the absence of an annunciation; and
   repositioning the box relative to the receiver.

27. A method for testing the installation of a box with respect to a receiver, the receiver disposed to annunciate in the event of receipt of a first signal, the box having a lid, the box further comprising a transmitter and an antenna, the transmitter powered by a battery, the method comprising the steps of:

   closing the lid;
   transmitting a signal from the box;
   noting the absence of an annunciation; and
   replacing the battery.

28. A method for testing the installation of a box with respect to a receiver, the receiver disposed to annunciate in the event of receipt of a first signal, the box having a lid, the box further comprising a transmitter and an antenna, the method comprising the steps of:

   closing the lid;
   transmitting a signal from the box;
   noting the absence of an annunciation; and
   replacing the box.

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