US008121855B2

(12) **United States Patent**
Lorsch

(10) **Patent No.: US 8,121,855 B2**
(45) **Date of Patent: *Feb. 21, 2012**

(54) **METHOD AND SYSTEM FOR PROVIDING ONLINE MEDICAL RECORDS**

(75) Inventor: **Robert H. Lorsch**, Beverly Hills, CA (US)

(73) Assignee: **MyMedicalRecords.com, Inc.**, Los Angeles, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1753 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **11/225,518**

(22) Filed: **Sep. 12, 2005**

(65) **Prior Publication Data**

US 2007/0061169 A1 Mar. 15, 2007

(51) **Int. Cl.**

G06Q 10/00	(2006.01)
G06Q 50/00	(2006.01)
A61B 5/00	(2006.01)
G06F 19/00	(2006.01)

(52) **U.S. Cl.** **705/2**; 705/3

(58) **Field of Classification Search** 705/2–3
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,404,292	A	4/1995	Hendrickson	
5,499,293	A	3/1996	Behram et al.	
5,778,882	A	7/1998	Raymond et al.	
5,924,074	A	7/1999	Evans	
5,926,526	A	7/1999	Rapaport et al.	
5,970,463	A	10/1999	Cave et al.	
5,974,124	A	10/1999	Schlueter, Jr. et al.	
5,997,476	A	12/1999	Brown	
6,000,828	A	12/1999	Leet	
6,032,199	A	2/2000	Lim et al.	
6,073,106	A *	6/2000	Rozen et al.	705/3

(Continued)

FOREIGN PATENT DOCUMENTS

EP 0 764 911 A1 3/1997

(Continued)

OTHER PUBLICATIONS

www.linxcom.com, Jan. 7, 2005, Obtained from Internet Archive Wayback Machine (www.archive.org), linxconnect.htm, linxconnect_faq.htm.*

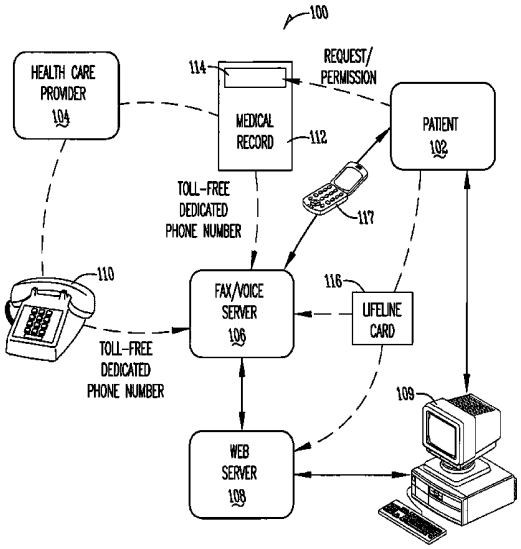
(Continued)

Primary Examiner — Robert Morgan
Assistant Examiner — Joy Chng
(74) *Attorney, Agent, or Firm* — McKee, Voorhees & Sease, PLC

(57) **ABSTRACT**

A method for providing a consumer with the ability to access and collect personal health records associated with the consumer in a secure and private manner is provided. The method includes assigning a toll-free phone number individually associated with and dedicated to the consumer for private fax and voice communications from a health care provider, associating access information with the consumer for the consumer to use to access a secure web site, receiving a private fax communication comprising a personal health record associated with the consumer for which the consumer has requested and given permission to the health care provider to send to the toll-free number, converting the private fax communications into an image file format, storing the health record encoded in the image file format, and providing the consumer with secure access to the web site using the access information and providing on the web site an interface to the health records of the consumer for the consumer to access the health record.

25 Claims, 9 Drawing Sheets



U.S. PATENT DOCUMENTS

6,082,776	A *	7/2000	Feinberg	283/72
6,088,677	A	7/2000	Spurgeon	
6,223,559	B1	5/2001	Coleman	
6,463,417	B1	10/2002	Schoenberg	
6,574,484	B1	6/2003	Carley	
6,725,200	B1	4/2004	Rost	
6,738,784	B1	5/2004	Howes	
6,845,448	B1	1/2005	Chaganti et al.	
6,871,214	B2 *	3/2005	Parsons et al.	709/206
6,941,271	B1	9/2005	Soong	
6,988,075	B1 *	1/2006	Hacker	705/3
7,257,967	B2	8/2007	Rheinstein	
7,306,560	B2	12/2007	Iliff	
2001/0041991	A1 *	11/2001	Segal et al.	705/3
2002/0046061	A1	4/2002	Wright et al.	
2002/0059587	A1 *	5/2002	Cofano et al.	725/35
2002/0077861	A1	6/2002	Hogan	
2002/0103675	A1	8/2002	Vanelli	
2002/0120470	A1	8/2002	Trice, Sr.	
2002/0128865	A1	9/2002	Alten	
2002/0178631	A1	12/2002	Morton	
2002/0189146	A1	12/2002	Lyon	
2003/0014282	A1	1/2003	Haaksma et al.	
2003/0037065	A1	2/2003	Svab	
2003/0040940	A1	2/2003	Nehammer	
2003/0059751	A1	3/2003	Welles	
2003/0086591	A1	5/2003	Simon	
2003/0098356	A1	5/2003	Gombar	
2003/0132132	A1	7/2003	Small	
2003/0140044	A1 *	7/2003	Mok et al.	707/10
2003/0208382	A1	11/2003	Westfall	
2003/0226889	A1	12/2003	Morrison, Jr.	
2003/0229452	A1	12/2003	Lewis et al.	
2003/0233844	A1	12/2003	Rheinstein	
2004/0078229	A1	4/2004	Gay et al.	
2004/0228336	A1 *	11/2004	Kung et al.	370/352
2004/0267572	A1	12/2004	Emery et al.	
2005/0165285	A1	7/2005	Iliff	
2005/0209891	A1	9/2005	Jacobus et al.	
2005/0251423	A1	11/2005	Bellam et al.	
2006/0004588	A1	1/2006	Ananda	
2007/0061170	A1	3/2007	Lorsch	
2009/0007237	A1	1/2009	Lorsch	
2009/0055894	A1	2/2009	Lorsch	

FOREIGN PATENT DOCUMENTS

JP	9-218902	8/1997
JP	2001-350847	12/2001

OTHER PUBLICATIONS

MyMedicalRecords.com, Inc., Examiner's Report from Australian Patent Application No. 2006202057, dated Jul. 31, 2007, 2 pages.

http://web.archive.org/web/20050909014053/http://www.mbox.com.au, "mBox—Unified Messaging", printed off of Internet Aug. 11, 2009, 1 page.

mymedicalrecords.com, Inc., PCT/US06/04867, Notification of Transmittal of International Preliminary Examination Report dated May 17, 2010.

* cited by examiner

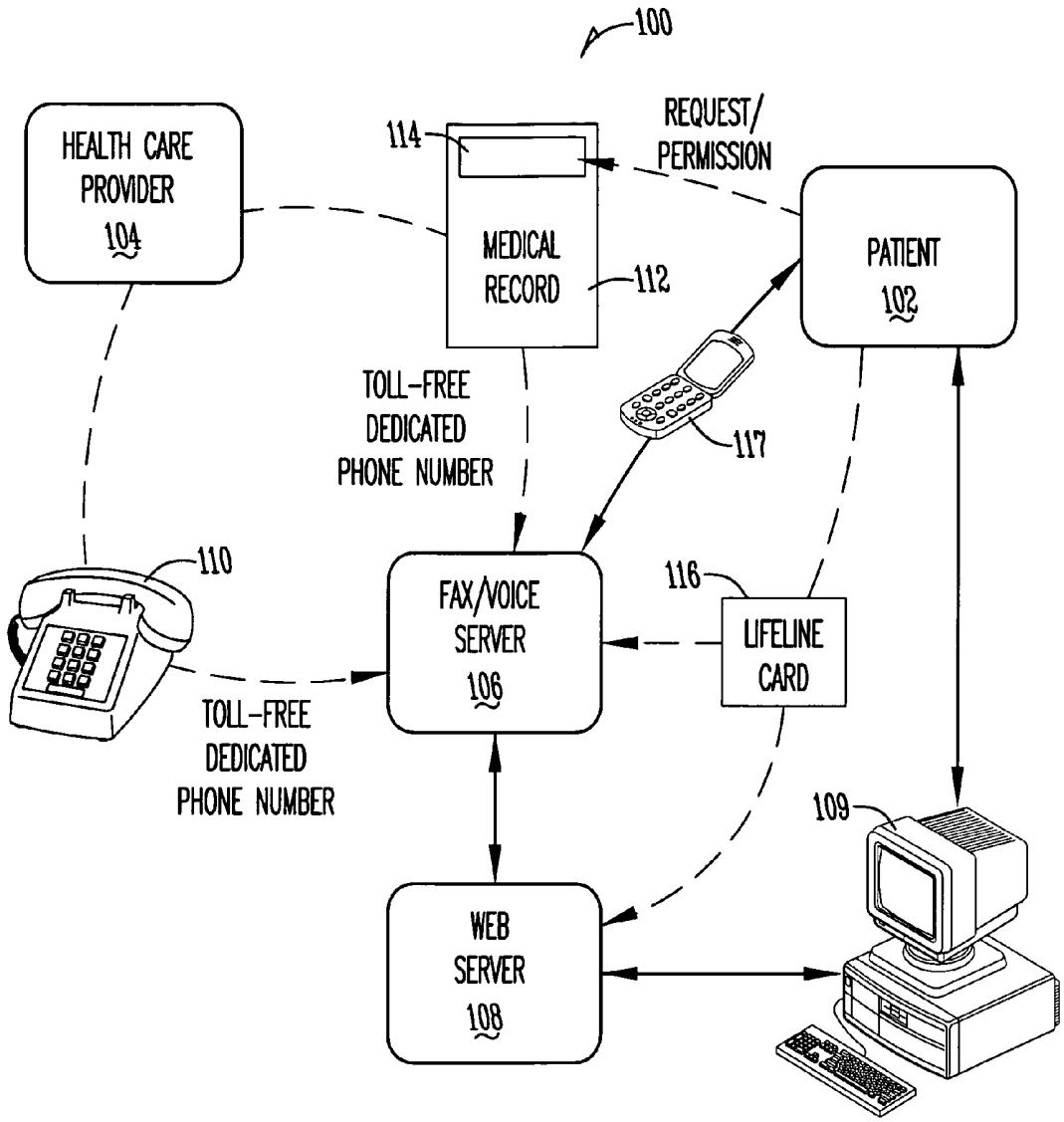

100
HEALTH CARE PROVIDER 104
114
MEDICAL RECORD
112
REQUEST/ PERMISSION
PATIENT 102
TOLL-FREE DEDICATED PHONE NUMBER
117
110
FAX/VOICE SERVER 106
116
LIFELINE CARD
TOLL-FREE DEDICATED PHONE NUMBER
109
WEB SERVER 108

Fig. 1

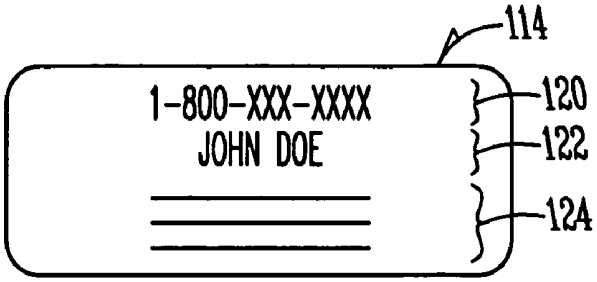


Fig. 2

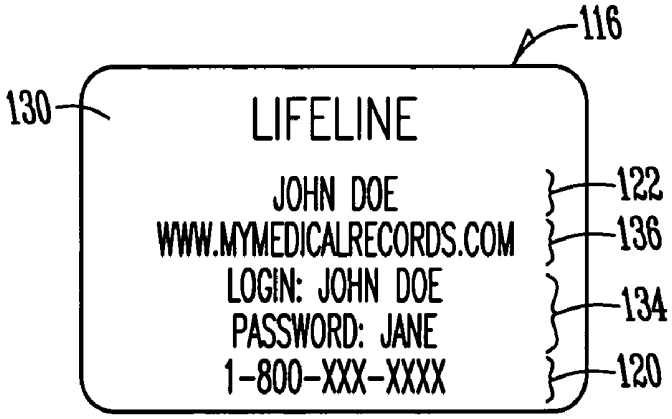


Fig. 3A

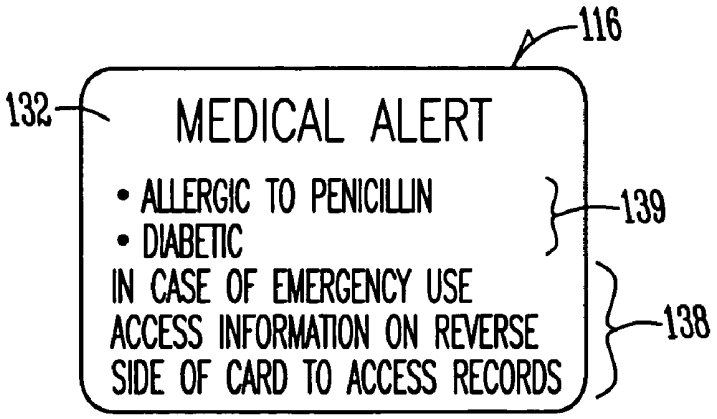


Fig. 3B

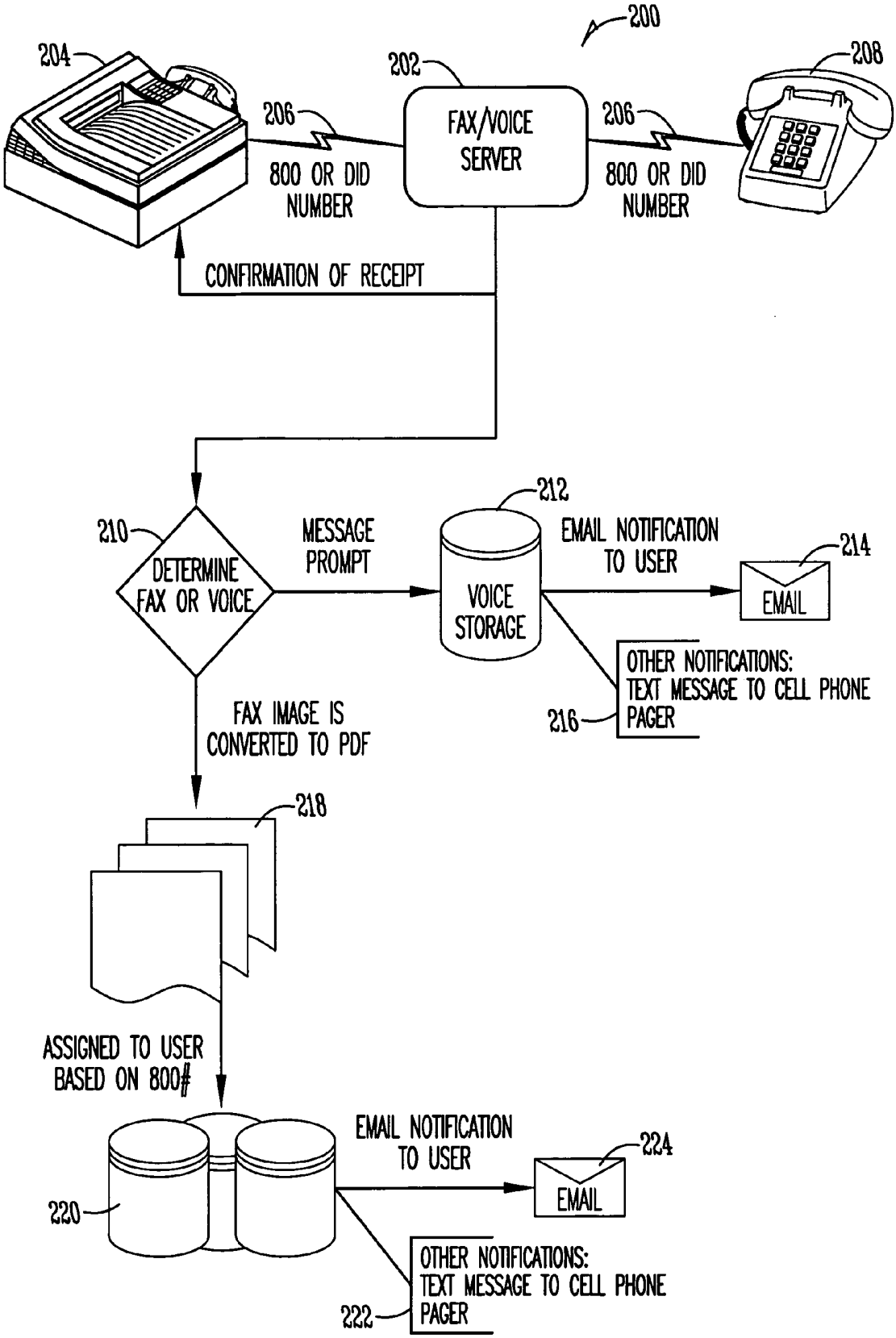

200
204
202
208
206
FAX/VOICE SERVER
206
800 OR DID NUMBER
800 OR DID NUMBER
CONFIRMATION OF RECEIPT
210
DETERMINE FAX OR VOICE
MESSAGE PROMPT
212
VOICE STORAGE
EMAIL NOTIFICATION TO USER
214
EMAIL
OTHER NOTIFICATIONS: TEXT MESSAGE TO CELL PHONE PAGER
216
FAX IMAGE IS CONVERTED TO PDF
218
ASSIGNED TO USER BASED ON 800#
EMAIL NOTIFICATION TO USER
224
EMAIL
220
OTHER NOTIFICATIONS: TEXT MESSAGE TO CELL PHONE PAGER
222

Fig. 4

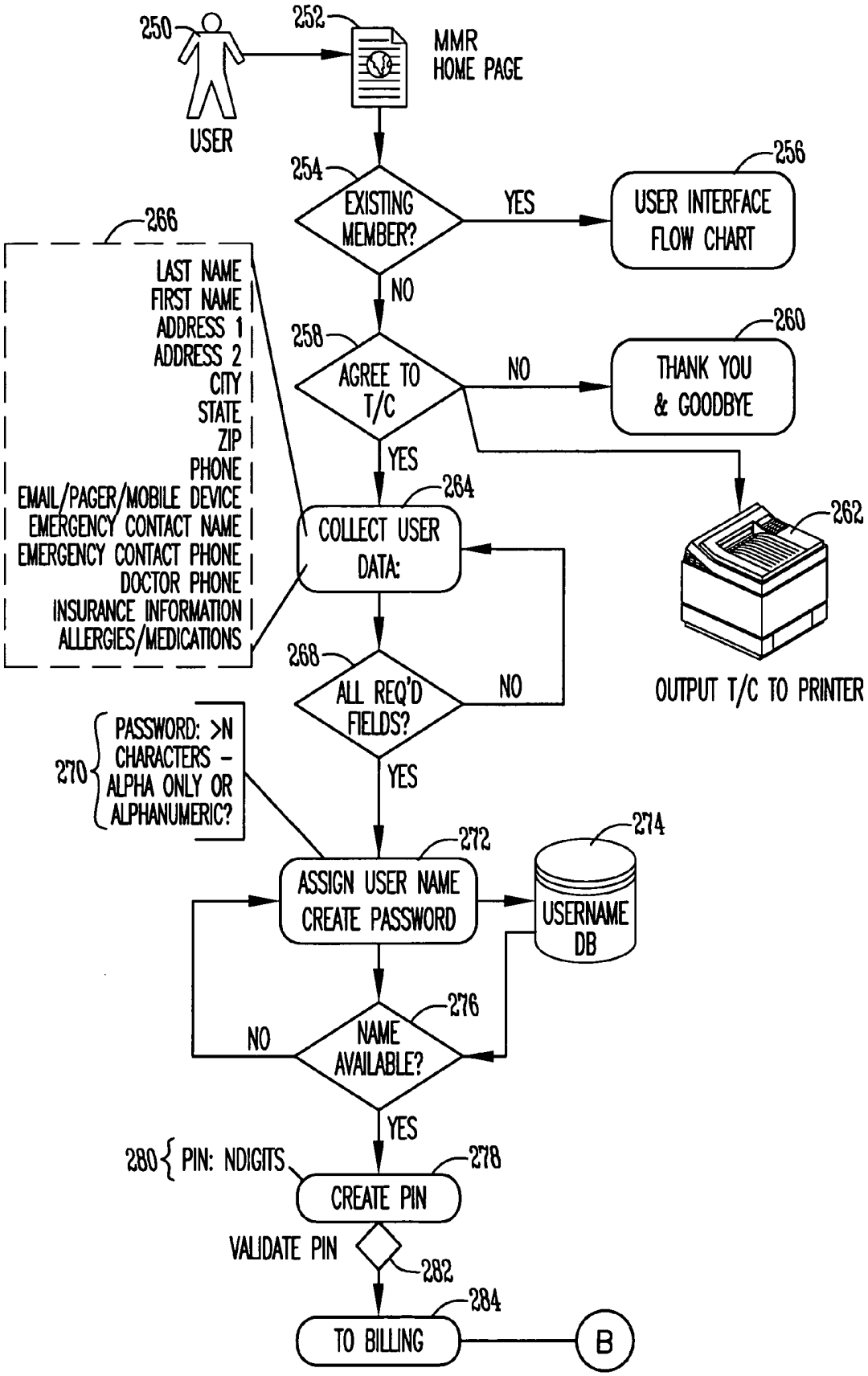

250
USER
252
MMR HOME PAGE
254
EXISTING MEMBER?
YES
256
USER INTERFACE FLOW CHART
NO
258
AGREE TO T/C
NO
260
THANK YOU & GOODBYE
YES
262
OUTPUT T/C TO PRINTER
264
COLLECT USER DATA:
266
LAST NAME
FIRST NAME
ADDRESS 1
ADDRESS 2
CITY
STATE
ZIP
PHONE
EMAIL/PAGER/MOBILE DEVICE
EMERGENCY CONTACT NAME
EMERGENCY CONTACT PHONE
DOCTOR PHONE
INSURANCE INFORMATION
ALLERGIES/MEDICATIONS
268
ALL REQ'D FIELDS?
NO
YES
270
PASSWORD: >N CHARACTERS - ALPHA ONLY OR ALPHANUMERIC?
272
ASSIGN USER NAME CREATE PASSWORD
274
USERNAME DB
276
NAME AVAILABLE?
NO
YES
280
PIN: NDIGITS
278
CREATE PIN
VALIDATE PIN
282
284
TO BILLING
B

Fig. 5A

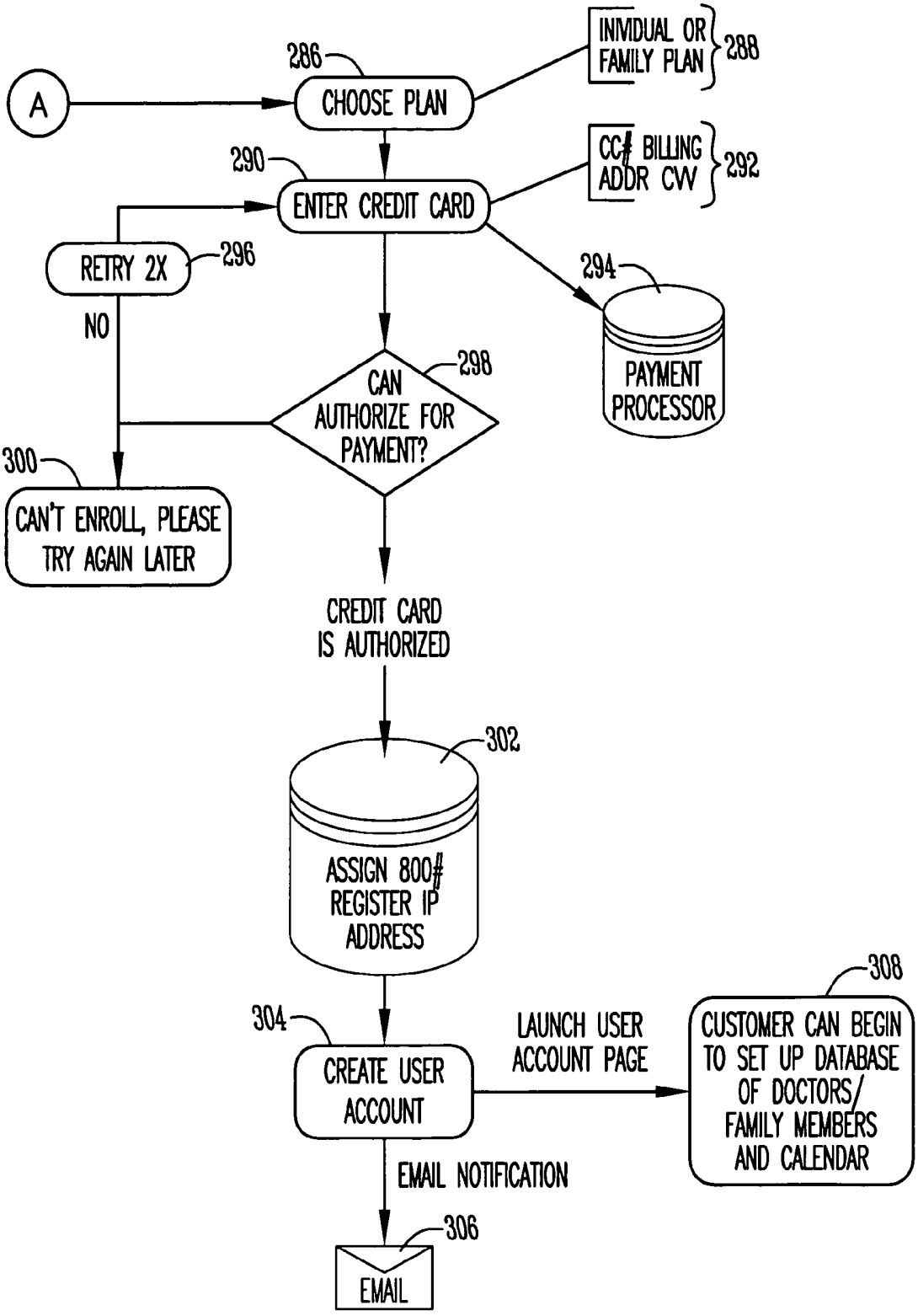

A
286
CHOOSE PLAN
INIVIDUAL OR FAMILY PLAN
288
290
ENTER CREDIT CARD
CC# BILLING ADDR CVV
292
RETRY 2X
296
NO
294
PAYMENT PROCESSOR
298
CAN AUTHORIZE FOR PAYMENT?
300
CAN'T ENROLL, PLEASE TRY AGAIN LATER
CREDIT CARD IS AUTHORIZED
302
ASSIGN 800# REGISTER IP ADDRESS
304
CREATE USER ACCOUNT
LAUNCH USER ACCOUNT PAGE
308
CUSTOMER CAN BEGIN TO SET UP DATABASE OF DOCTORS/ FAMILY MEMBERS AND CALENDAR
EMAIL NOTIFICATION
306
EMAIL

Fig. 5B

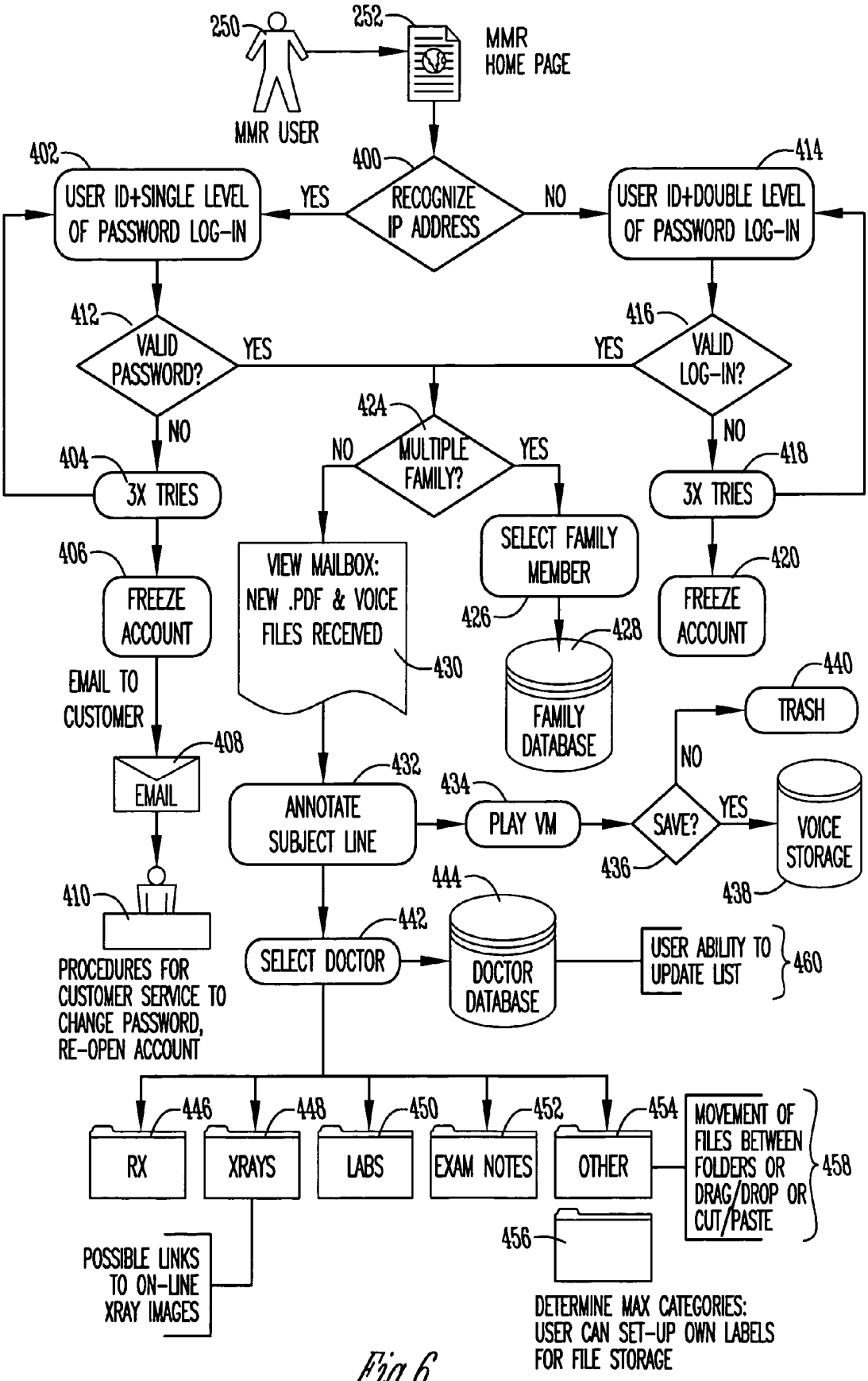

250
MMR USER
252
MMR HOME PAGE
400
RECOGNIZE IP ADDRESS
YES
NO
402
USER ID+SINGLE LEVEL OF PASSWORD LOG-IN
414
USER ID+DOUBLE LEVEL OF PASSWORD LOG-IN
412
VALID PASSWORD?
YES
NO
416
VALID LOG-IN?
YES
NO
424
MULTIPLE FAMILY?
NO
YES
404
3X TRIES
418
3X TRIES
406
FREEZE ACCOUNT
420
FREEZE ACCOUNT
EMAIL TO CUSTOMER
408
EMAIL
VIEW MAILBOX: NEW .PDF & VOICE FILES RECEIVED
430
SELECT FAMILY MEMBER
426
428
FAMILY DATABASE
440
TRASH
NO
YES
432
ANNOTATE SUBJECT LINE
434
PLAY VM
SAVE?
436
VOICE STORAGE
438
410
PROCEDURES FOR CUSTOMER SERVICE TO CHANGE PASSWORD, RE-OPEN ACCOUNT
442
SELECT DOCTOR
444
DOCTOR DATABASE
USER ABILITY TO UPDATE LIST
460
446
RX
448
XRAYS
450
LABS
452
EXAM NOTES
454
OTHER
MOVEMENT OF FILES BETWEEN FOLDERS OR DRAG/DROP OR CUT/PASTE
458
POSSIBLE LINKS TO ON-LINE XRAY IMAGES
456
DETERMINE MAX CATEGORIES: USER CAN SET-UP OWN LABELS FOR FILE STORAGE

Fig. 6

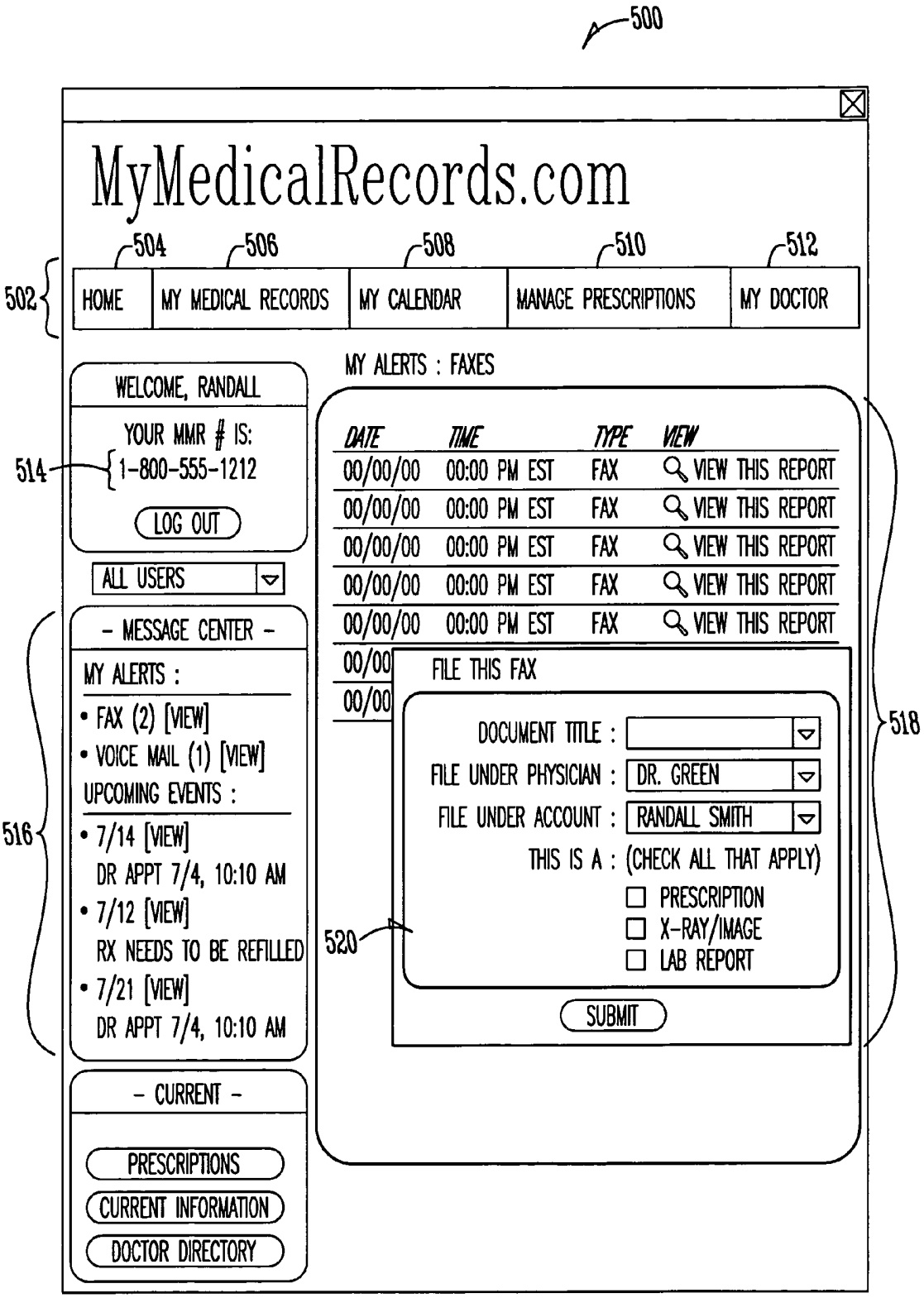

500
MyMedicalRecords.com
502
504
506
508
510
512
HOME
MY MEDICAL RECORDS
MY CALENDAR
MANAGE PRESCRIPTIONS
MY DOCTOR
WELCOME, RANDALL
YOUR MMR # IS:
514
1-800-555-1212
LOG OUT
ALL USERS
- MESSAGE CENTER -
MY ALERTS :
• FAX (2) [VIEW]
• VOICE MAIL (1) [VIEW]
UPCOMING EVENTS :
516
• 7/14 [VIEW]
DR APPT 7/4, 10:10 AM
• 7/12 [VIEW]
RX NEEDS TO BE REFILLED
• 7/21 [VIEW]
DR APPT 7/4, 10:10 AM
- CURRENT -
PRESCRIPTIONS
CURRENT INFORMATION
DOCTOR DIRECTORY
MY ALERTS : FAXES
DATE TIME TYPE VIEW
00/00/00 00:00 PM EST FAX VIEW THIS REPORT
00/00/00 00:00 PM EST FAX VIEW THIS REPORT
00/00/00 00:00 PM EST FAX VIEW THIS REPORT
00/00/00 00:00 PM EST FAX VIEW THIS REPORT
00/00/00 00:00 PM EST FAX VIEW THIS REPORT
00/00
00/00
FILE THIS FAX
DOCUMENT TITLE :
FILE UNDER PHYSICIAN : DR. GREEN
FILE UNDER ACCOUNT : RANDALL SMITH
THIS IS A : (CHECK ALL THAT APPLY)
PRESCRIPTION
X-RAY/IMAGE
LAB REPORT
520
SUBMIT
518

Fig. 7

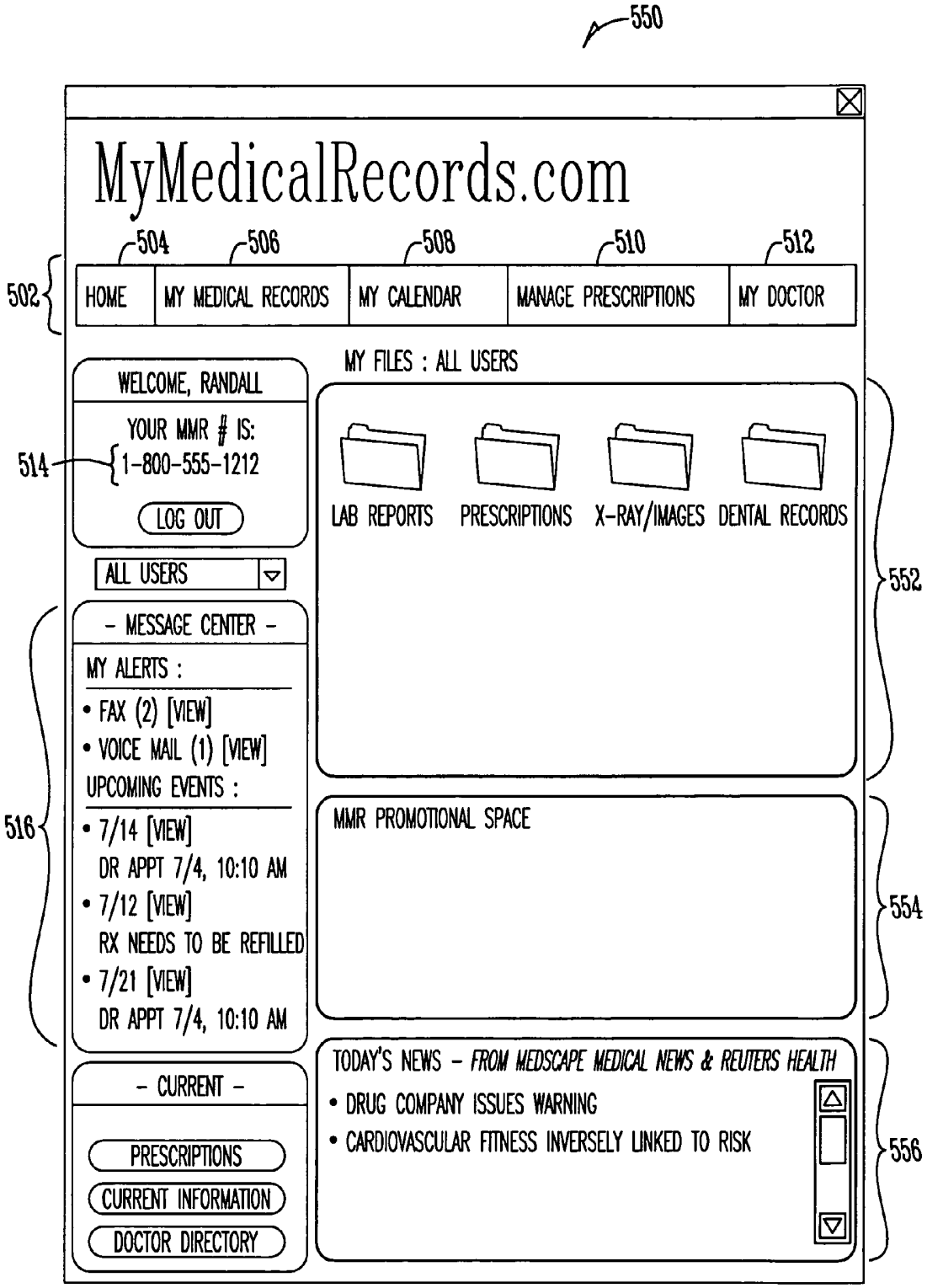

550
MyMedicalRecords.com
504
506
508
510
512
502
HOME
MY MEDICAL RECORDS
MY CALENDAR
MANAGE PRESCRIPTIONS
MY DOCTOR
WELCOME, RANDALL
YOUR MMR # IS:
1-800-555-1212
514
LOG OUT
ALL USERS
MY FILES : ALL USERS
LAB REPORTS
PRESCRIPTIONS
X-RAY/IMAGES
DENTAL RECORDS
552
- MESSAGE CENTER -
MY ALERTS :
• FAX (2) [VIEW]
• VOICE MAIL (1) [VIEW]
UPCOMING EVENTS :
• 7/14 [VIEW]
DR APPT 7/4, 10:10 AM
• 7/12 [VIEW]
RX NEEDS TO BE REFILLED
• 7/21 [VIEW]
DR APPT 7/4, 10:10 AM
516
MMR PROMOTIONAL SPACE
554
- CURRENT -
PRESCRIPTIONS
CURRENT INFORMATION
DOCTOR DIRECTORY
TODAY'S NEWS - FROM MEDSCAPE MEDICAL NEWS & REUTERS HEALTH
• DRUG COMPANY ISSUES WARNING
• CARDIOVASCULAR FITNESS INVERSELY LINKED TO RISK
556

Fig. 8

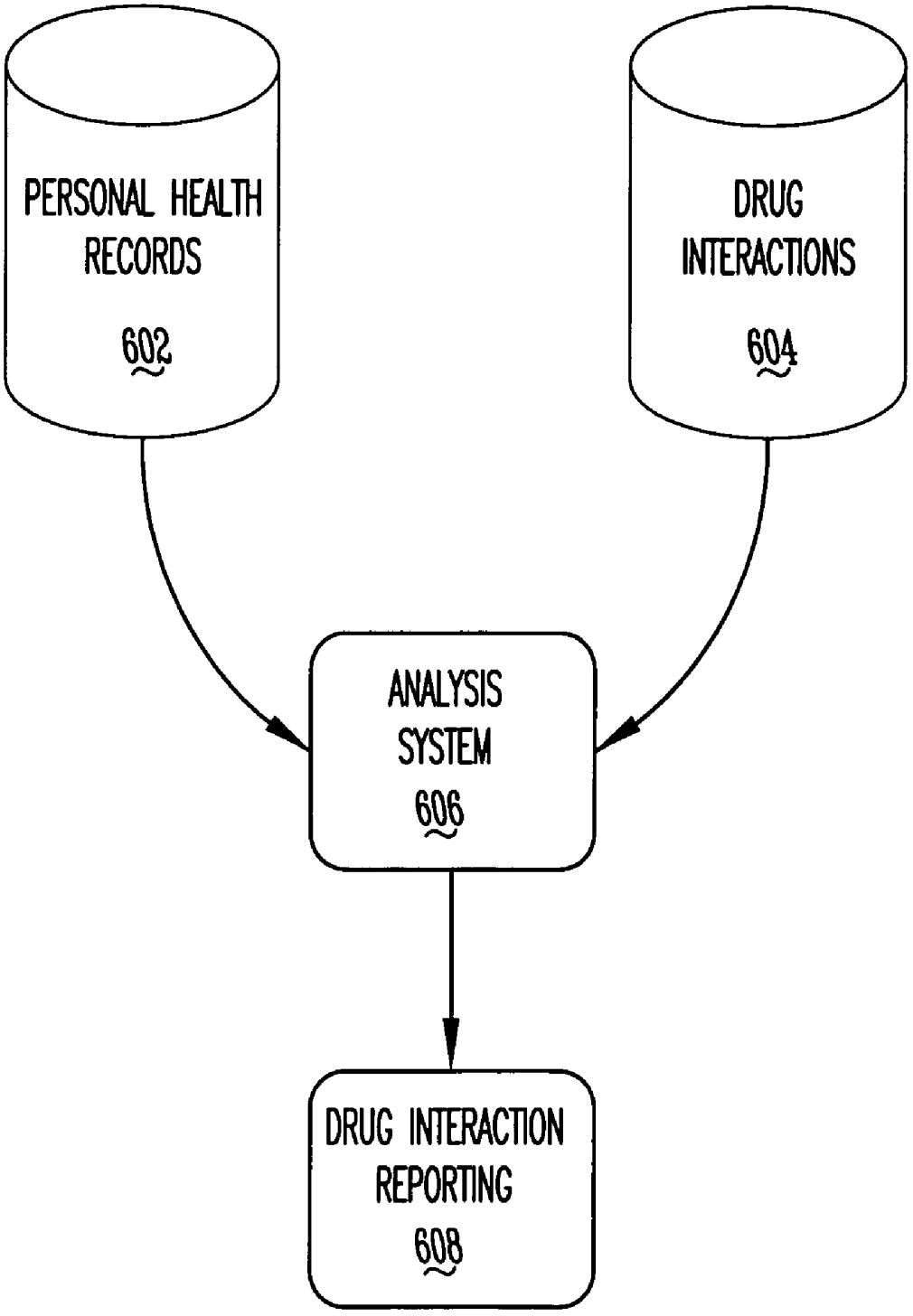

PERSONAL HEALTH RECORDS
602
DRUG INTERACTIONS
604
ANALYSIS SYSTEM
606
DRUG INTERACTION REPORTING
608

Fig. 9

METHOD AND SYSTEM FOR PROVIDING ONLINE MEDICAL RECORDS

BACKGROUND OF THE INVENTION

The present invention relates to the provision of online medical records. More particularly, the present invention relates to providing a means for consumers to request their medical records from health care providers, store the medical records, and provide for private communications between the consumers and their health care providers.

Medical and other health information can be particularly sensitive communications. Laws such as the HIPPA Privacy Rule restrict, limit, or place specific conditions on the dissemination of medical records. Laws such as the Health Insurance Portability and Accountability Act (HIPAA) provide a patient with the right to access to their own medical records.

A health provider, such as a hospital may require a patient to submit to their own privacy practices as a condition for treatment or admittance. A privacy practice statement of the health provider will likely explain that the patient the right to inspect and copy their medical records, but there may be significant procedural hurdles to overcome that burden both the health provider and the patient. For example, the patient would be required to provide a written request, there may be processing delays in receiving copies of the medical or health related records, and additional processing charges resulting from the inconvenience created for the health provider to comply with the procedural hurdles that they put in place to avoid inappropriately disclosing records of their patients.

Of course, privacy concerns regarding a patient's medical records creates other problems for health care providers. For example, suppose a health care provider needs to communicate with a patient over the phone to check on a patient, request additional information regarding a patient's current condition, to schedule a test, report the results of a test, express the need for a return visit, or for other reasons related to providing health care to the patient. The health care provider calls the patient at home or at work and the patient is not available. Instead, the phone is answered by another person who could be a co-worker or family member. Alternatively, the health care provider is provided with the opportunity to leave a voicemail message. The health care provider must be very cautious to avoid inadvertently disclosing private information. Thus, the health care provider may not be able to leave a message with another person or with a voicemail system if doing so would violate the patient's privacy rights or expectations of privacy. Even in cases where the health care provider may be legally authorized to do so via a previously agreed upon privacy policy, doing so may be against the person's wishes as they did not understand what they were consenting to when they consented to the privacy policy or did not understand their rights under the privacy policy. A message for the patient may provide other parties with more information then the patient would want them to know. Even when a health care provider attempts to leave a seemingly innocuous message with a voicemail system or with another individual, more information may be shared then the patient wants to be shared. For example, a message left with another requesting that the patient call a particular doctor may be more than what the patient would want shared with others. For example, suppose it is known or readily determined that the doctor is an obstetrician and the patient is a woman who does not want her significant other to know she is pregnant yet. Suppose it is known or readily determined that the doctor is an oncologist and the patient does not want their co-workers or employer to know that the patient has cancer. Mere knowledge of the doctor's name, in these cases would be sufficient to make an educated guess about the patient's condition or potential condition. A patient may consider this a violation of their privacy. Regardless of whether or not the patient has any legal recourse, this can result in the patient being upset and can have a negative impact on the relationship between the patient and their health care provider.

Of course, instead of leaving a message, a health care provider could simply call back, but this is inconvenient for the health care provider or their staff and may unduly delay the amount of time before the patient receives the message. Thus, private and secure communications would benefit both the health care provider and the patient. The health care provider would not have to worry about disclosing private information to a party who should not have the information. And, the patient would be more likely to receive the communications sooner and could take comfort knowing that their privacy was maintained.

Another problem relating to medical records is that where an individual sees multiple health care providers, the inconvenience of requesting medical records is multiplied. Given the inconvenience and the potential delay in obtaining records it is also likely that in such instances the individual does not actually compile a complete medical history. To the extent the individual has their records, the individual must determine a method of storing and organizing them.

Yet another problem relating to medical records is that often times they are most needed at a time when the individual is unable to provide them. For example, in emergency situations it would be desirable for caregivers to know and understand the individual's medical history. Knowledge of specific allergies may be essential to avoid administration of medications that would adversely impact the condition of the individual. Knowledge of pre-existing conditions may be essential to correct diagnosis and treatment. What is desired is a way that relevant medical records could be shared when needed most.

Various attempts have been made to assist consumers with their medical records in different ways. One example of such an attempt is Synchart. Synchart is a web-based service (www.synchart.com) that allows consumers to enter their personal and family health information into a database. Users can enter doctor visits, immunizations, hospital visits, allergies, and other relevant information and generate reports based on the data entered. As part of the services, consumers receive a CD with their medical information data, as well as a wallet card. Because medical data is stored on the Synchart web server, user health information is accessible from any Internet-connected computer, which Synchart claims will allow doctors and other providers to access user information if the user gives them account information.

One of the problems with a service such as Synchart is that it requires users to enter information about their health histories into a database, a time consuming and cumbersome process which is inconvenient and sometimes difficult. These issues are further magnified if an individual does not have a complete understanding of their medical records. Another problem of such a system is that clerical errors by the user can result in inaccurate information. A further problem is that medical information is not immediately available if the individual does not immediately enter the information. Such a problem is exacerbated by the fact that often times when an individual is frequently seeing health care providers they are ill or injured and it is particularly inconvenient to update their medical records. Finally, such a system does not address issues of obtaining the medical records from the health care provider.

Redi-Records is another example of a system that assists consumers with obtaining access to their medical records. For a fee, Redi-Records will gather all of a subscriber's medical records from different doctors and hospitals. Once the records are gathered, Redi-Records will digitize them and put them onto two mini-CDs. Users can carry 1 mini-CD in their wallet and keep one at home. For an additional cost, the company will update a user's records every 180 or 90 days. Such a service is marketed with the promise that having records on a mini-CD will make it easier for you to receive proper treatment in the event of a medical emergency. One of the problems with such an approach is that the records are not necessarily current. Another problem with such an approach is that a third party is involved so that complex forms will need to be completed by the consumer and the consumer's providers in order to grant the third party access to the medical records which could cause delay in gathering information. Due to the third party involvement, there is a chain of human handling of the documents that could compromise the privacy of the documents. In addition, as the mini-CDs may not be secured or password protected, or the information about how to access them readily available. Where the mini-CDs are not secured or password protected, unauthorized individuals could access a person's medical records.

Another prior art approach is HeartRecord (www.heartcenteronline.com). This services focuses on cardiac patients. Users pay a subscription fee and are able to enter information about their medical history, doctors, and prescriptions into a database that is accessible using the Internet with a secured password. As a result, important information is available in the event of a medical emergency or when users visit a doctor. HeartRecord also allows users to upload their EKGs and other vital images to their account either from a computer, or by e-mailing, faxing or mailing the image to the company. HeartRecord has several inherent problems. HeartRecord's system places the onus of entering data and uploading images completely on the user. Another problem with such as service is that it is limited in scope. A further problem with such as system is that it does not create a private communications link between a doctor and patient.

Another prior art approach is demonstrated by Personal MD. This product (www.personalmd.com) uses a fax-based technology to allow users to store records that can be accessed via the Internet. Personal MD also offers a feature where users can file the most critical information in a folder marked "Emergency", which can be printed out by personnel via fax in the event of a medical crisis. PersonalMD also offers medication reminders and other calendar features, and the site includes syndicated health information content. One of the problems with this approach is ease of use. For example with Personal MD, a non-dedicated number is used thus the person sending a fax must enter a PIN before sending the fax. This can create an unacceptable inconvenience for a busy doctor's office and can cause frustration. Moreover, it also creates an additional opportunity for human error in that use of the wrong pin number may direct the fax to a wrong destination. Such a system is not focused on providing a private communications link between a patient and their health care provider.

Another prior art approach is Web MD Health Manager offered by WebMD (www.webmd.com). This system allows users to enter data about their personal health such as health conditions, blood pressure, cholesterol level and other metrics. This system will then run those numbers against a database to provide a personal "self-assessment" and provide tips on better health. Such a system does not provide for storage of medical records or a private communications links between a health care provider and patient.

Another prior art approach is available from iHealthRecord.org. This service provides an interactive data entry screen that allows users to enter their personal and family health histories. This information can then be printed out on a wallet card. One of the problems with such an approach is that it requires users to enter information on their medical records into a database, a time consuming and cumbersome task which can also result in inaccuracies. In addition, this approach does not provide a secure communications link between a health care provider and their patient or offer storage and management of personal health and medical records.

Thus, despite the advancements in these areas, problems remain. In particular, there is a general lack of recognition of the need to provide secure and private communications between a health care provider and their patient and to do so in a manner that is convenient to both the health care provider and the patient. There is also a general lack of recognition of the problems for an individual to exercise their rights to receive access to their health care records and be able to store and maintain those records in one secured, password protected account that allows for files to be categorized, annotated, sorted and viewed based on date, type of record, doctor, or user.

BRIEF SUMMARY OF THE INVENTION

Therefore it is a primary object, feature, or advantage of the present invention to improve upon the state of the art.

It is a further object, feature, or advantage of the present invention to facilitate health care personnel's compliance with HIPAA or other legal requirements regarding privacy of medical records.

A still further object, feature, or advantage of the present invention is to provide meaningful access to health care records by an individual thereby allowing the individual to exercise their legal rights with respect to controlling access to their medical records.

Yet another object, feature, or advantage of the present invention is provide individuals with immediate access to health care records in emergency situations to assist in providing appropriate care.

A further object, feature, or advantage of the present invention is to provide a convenient and cost effective method for health care providers to comply with laws regarding privacy of health care records.

A still further object, feature, or advantage of the present invention is to provide a convenient and cost effective method for individuals to request that their health care providers provide copies of medical records.

Another object, feature, or advantage of the present invention is to provide a private communications link between health care personnel and their patients.

Yet another object, feature, or advantage of the present invention is to provide for placing an individual in control of their medical records and allowing them to selectively provide access to others.

A still further object, feature, or advantage of the present invention is to facilitate storing all of an individual or family's medical records and related information in a single location so that health care personnel can be given complete medical information/history when needed or analysis can be performed on the medical records.

Another object, feature, or advantage of the present invention is to provide a means for individuals to create calendars to remind them of the need to refill prescriptions.

Yet another object, feature, or advantage of the present invention is to provide a means for individuals to create calendars to maintain doctor's appointments.

A further object, feature, or advantage of the present invention is to provide reminder messages regarding the need to refill prescriptions or remember doctor's appointments.

A still further object, feature, or advantage of the present invention is to provide a method to store, organize, and annotate medical records and also to customize the storage by giving the user the ability to name the folders in which those records are stored.

Another object, feature, or advantage of the present invention is to give users the ability to upload images, such as x-rays or scans.

Yet another object, feature, or advantage of the present invention is to give users the ability to forward records via fax to a health care provider.

A further object, feature, or advantage of the present invention is to give users the ability to see if there are any possible interactions between prescription drugs they are taking.

One or more of these and/or other objects, features, or advantages of the present invention will become apparent from the specification and claims that follow.

According to one aspect of the present invention, a method for providing a consumer with the ability to access and collect personal health records associated with the consumer in a secure and private manner is provided. The method includes assigning a toll-free phone number individually associated with and dedicated to the consumer for private fax and voice communications from a health care provider. Next, the method provides for associating access information with the consumer for the consumer to use to access a secure web site. The method also provides for receiving a private fax communication comprising a personal health record associated with the consumer for which the consumer has requested and given permission to the health care provider to send to the toll-free number, converting the private fax communications into an image file format (such as PDF), and storing the health record encoded in the image file format. The method also provides for providing the consumer with secure access to the web site using the access information and providing on the web site an interface to the health records of the consumer for the consumer to access the health record.

According to another aspect of the present invention, a kit is provided for assisting a customer with exercising rights to medical records associated with the customer, accessing the health records, maintaining the medical records as private, and providing access to the health records in case of emergency. The kit includes an access card and at least one document such as a sticker. The access card includes access information associated with the customer to be used to access a secure web site providing access to health records of the customer to be used to convey the access information to another in event of a medical emergency associated with the customer. The document or sticker includes a request to a health care provider to electronically send the medical records to a destination and granting permission by the customer to the health care provide to electronically send the medical records to the destination and wherein the medical records sent to the destination are accessible on the secure web site.

According to another aspect of the present invention, a system for communicating personal health records of a consumer is provided. The system includes a consent document, a fax server, and a web server. The consent document, preferably a sticker, provides instructions for and giving permission to a health care provider to fax health records of the consumer to a dedicated phone number associated with the consumer. The fax server is for receiving faxes of the health records directed to the dedicated phone number. The web server is in operative communication with the fax server and adapted to provide a secure web-based interface to the health records. The web-based interface provides the ability to upload images through a web browser, allow a user to send faxes to health care providers, and perform other functions associated with managing their health care records.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** is diagram illustrating one embodiment of a system of the present invention.

FIG. **2** is a pictorial representation of a sticker authorizing transmissions of records to the user account according to one embodiment of the present invention.

FIG. **3**A and FIG. **3**B illustrate a card with medical record access information according to one embodiment of the present invention.

FIG. **4** is a diagram illustrating one embodiment of a system of the present invention.

FIG. **5**A and FIG. **5**B are flow diagrams illustrating an enrollment process according to one embodiment of the present invention.

FIG. **6** is a flow diagram for accessing records according to one embodiment of the present invention.

FIG. **7** is a screen display of a web site according to one embodiment of the present invention.

FIG. **8** is another screen display of a web site according to one embodiment of the present invention.

FIG. **9** is diagram illustrating one embodiment of drug interacting reporting and analysis of the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The present invention provides for a convenient method for individuals to collect and store their private medical information and to provide private communications between the individual and their health care providers. One of the ways that the present invention collects and stores private medical information and facilitates private communications is through use of a LIFELINE which is a dedicated toll-free number for fax and voice communications. This dedicated toll-free number provides direct and private communications between a health care provider and their patient so that a health care provider can be assured that they are maintaining patient communications in secret and to avoid violating applicable privacy laws or patient expectations regarding privacy.

FIG. **1** is a diagram illustrating one embodiment of a system **100** of the present invention. In FIG. **1**, a consumer or patient **102** is shown. A health care provider **104** is also shown as well as a fax/voice server **106**. A web server **108** is operatively connected to the fax/voice server **106**. The health care provider **104** uses the phone **110** to communicate private voicemail messages through a toll-free dedicated phone number to the fax/voice server **106**. In addition, the health care provider faxes health or medical records **112** to the fax/voice server **106** using the toll-free dedicated phone number. The medical record **112** preferably has a sticker **114** present on the medical record **112**. The sticker **114** indicates or instructs the health care provider or their staff to fax the information to the toll-free dedicated phone number. In addition, the sticker **114** provides an indication of clear consent from the patient to the health care provider **104** to the toll-free dedicated phone number. Thus, it becomes a simple process for a consumer or

patient **102** to provide their health care provider **104** with instructions to fax health records, a simple process for the health care provider to obtain permission to fulfill a request for health care records, and a simple process for the health care provider to do so in a secure and convenient manner as the fax is going directly to a toll-free dedicated phone number associated with the patient.

The web server **108** is operatively connected to the fax/voice server **106** such as over a network or otherwise. A patient **102** or their proxy can communicate directly with the web server **108** through a computing device **109** or the fax/voice server **106** using a phone **117**. The patient **102** can use a LIFELINE card **116** that contains access information to log on to the web server **108** associated with a web site of the present invention, or as a reminder of their tollfree dedicated phone number which they can call to access voicemail messages, listen to text-to-speech conversion of emails, or otherwise access information.

The present invention also allows a patient **102** to upload files using a computing device **109** to the web server **108**. In addition, the patient **102** can use the computing device **109** to interact with the web server **108** to specify that a prescription or other personal health record is faxed via the fax/voice server **106** to a health care provider **104**.

FIG. **2** illustrates one embodiment of a sticker **114** for a patient to give to their healthcare provider to request or instruct their health care provider to fax medical records to the tollfree dedicated phone number associated with the patient. Although it is preferred that a sticker **114** be used because of the added convenience provided by being able to permanently or semi-permanently attach to a paper medical record, the present invention contemplates that other types of documents could be used. The sticker **114** includes the LIFELINE phone number **120** which is the tollfree dedicated phone number associated with the patient. Note that there is no pin number required which greatly simplifies the process of faxing documents. In addition, the name **122** of the patient is shown. There is also a written request **124** on the sticker **114** that instructs the health care provider to fax the records and explicitly gives permission to fax the health care record. The language of the written request may vary as necessary to comply with any applicable laws. It should be appreciated that the sticker **114** provides great convenience to both an individual who wants to instruct their health care provider to give them access to their medical records as well as to the health care provider who can now easily provide the individual with access to their medical records. The present invention further contemplates that medical alert information can also be placed on the sticker **114**. The types of medical alert information includes, without limitation, blood type information (i.e. ABO and Rhesus information), allergies to drugs, presence of a pacemaker, diabetes, epilepsy, or other conditions.

FIG. **3**A and FIG. **3**B illustrate one embodiment of a LIFELINE card **116**. The LIFELINE card has a front side **130** and an opposite back side **132**. The card **116** includes the name of the individual **122**, a URL for a web site **136** which stores medical records for the individual. In addition there is access information **134** such a username and password. The card **116** also includes the tollfree dedicated phone number **120** associated with the individual. On the back side **132** of the card **116** as best shown in FIG. **3**B, medical alert information **139** is provided. The medical alert information **139** can include allergies which the individual has, medical conditions such as diabetes or epilepsy, the presence of a pacemaker, or other medical information that may be of great importance in evaluating or treating the individual in the case of a medical emergency. The medical alert information can further include blood type information (i.e. ABO and Rhesus information). Also, instructions **138** are provided on the card **116** to indicate how one could access complete medical records or information about the individual.

The present invention contemplates including the sticker **114** (or other permission/request document) and the LIFELINE card **116** in a welcome kit when an individual or family subscribes or signs-up for the service. In addition, from the web site associated with the service, preferably addition stickers and/or additional cards can be printed and information can be updated as necessary.

FIG. **4** illustrates one embodiment of a system of the present invention. Preferably such a system is implemented using equipment from Prairie Systems, Inc. of Omaha, Nebr., although the present invention contemplates that other vendors may be used. As shown in FIG. **4**, the system **200** includes a fax/voice server **202**. The fax/voice server **202** is accessible by a fax machine **204** or a phone **208** through using a dedicated phone number. Preferably, the phone number **206** is toll-free as this increases the accessibility and convenience of the system which is very important. However, the phone number could also be a direct dial phone number. When the fax/voice server **202** receives a call, determination is made in step **210** as to whether the call is a voice call or a fax call. Where the call is a voice call, an interactive voice response (IVR) system is used to determine who the caller is, the purpose of the call, or other information, and then stores any voicemail message in voice storage **212**. The system is adapted notify the individual that there is a voicemail message through an email notification in step **214** and/or other types of notification in step **216**. Other types of notification can include, but are not limited to text messages to a cell phone or pager. Thus, a health care provider can call the LIFELINE number **206** and leave a voicemail message for the individual and know that the communication is a private communication. Thus, the health care provider can leave private and confidential information, such as the results of a test, or the need to schedule a new appointment, or other information. The individual is alerted to the presence of the voicemail message and can then call-in to the fax/voice server to check messages.

Where documents are faxed, fax images are collected and converted to portable document format (PDF) documents **218**. Although, the PDF format is preferred, the present invention contemplates that other types of document conversions can be done as may be appropriate in a particular implementation of the present invention. Based on the dedicated phone number used to send the documents, the faxed documents are assigned to a user account and stored in step **220**. The individual is alerted via email that the documents have been sent in step **224**. Alternatively, the individual is alerted via text messaging in step **222** that a fax has been sent.

The web site of the present invention provides a convenient location to collect and store health care records and provide secure access to the records. It also provides a convenient way to enroll in a service for providing online access to health records. FIGS. **5**A and **5**B provides one embodiment of an enrollment process In FIG. **5**A, a user **250** accesses a home page **252** for a medical records web site. In step **254**, a determination is made as to whether the user **250** is an existing member. If the member is, then in step **256** the user is provided access to their user interface as shown in FIG. **6**. If not, then in step **258** a determination is made as to whether the user **250** agrees to terms and conditions of service. If not, then in step **260** the user is thanked for their interest but not allowed to continue. The user is also given the option or encouraged to

output the terms and conditions to a printer in step **262** so that they can review them closely and maintain a copy for their records if they wish. If in step **260**, the user agrees to the terms and conditions of service then in step **264** the system collects user data. User data **266** can include last name, first name, address information, city, state, zip code, phone number, email/pager/mobile device information, emergency contact name, emergency contact phone number, primary care physician phone number, insurance information, allergies and medications, and/or other information. If all fields are received in step **268**, then in step **272** the system assigns a user name and password. It is to be understood that the user may also request a particular username and/or set their own password. Where a user selects their own password, then in step **270**, a determination is made as to whether the password meets security requirements. For example, there may be a minimum number of characters required, or there must be at least one numeric character, or other requirements. Where the user is allowed to select their own name, in step **274**, a username database is searched and in step **276** a determination is made as to whether or not the name is available. If it is, then in **278** the user is permitted to create a personal identification number (PIN). In step **280**, a rule such as one requiring a particular number of digits or a particular minimum digits is applied. In step **282** the PIN is validated and the enrollment process proceeds to billing options in step **284**. In FIG. **5**B, the user is allowed to choose a plan in step **286**. The individual could, for example, choose an individual or family plan from the plan options **288**. In step **290**, the user enters credit card information **292** which may include a credit card number, billing address, and CVV number. This information is then submitted to a payment processor **294**. In step **298**, a determination is made as to whether the credit card information can be authorized for payment. If not, then the number of retries is determined in step **296** and the user is allowed to re-enter their credit card information in step **290**. If there have already been two tries to validate credit card information, then in step **300** the individual is told that they can not enroll at this time and should try again later. If payment is authorized in step **298** then in step **302** a dedicated tollfree phone number is assigned and an IP address associated with the user is registered. In step **304** a user account is created. In step **306** an email notification confirming registration is sent to the user. In step **308** the user can begin to setup their personal web site such as their database of doctors, family members, calendar, and otherwise configure their web site.

After registration, the user can access the user interface of the web site. FIG. **6** illustrates one embodiment of the user interface **256**. The user **250** can access the homepage **252**. In step **400**, a determination is made as to whether the system recognizes the ip address being used by the user as being associated with the user. If the ip address is not recognized then extra security measures are taken beginning in step **414**. In step **414** a username and a double level of password log-in is required. If a valid log-in **416** then the process proceeds to step **424**. If not, then in step **418**, the number of invalid log-in attempts or tries is monitored and if it is three, then in step **420** the account is frozen. Returning to step **400**, if the ip address is recognized as being associated with the user, then in step **402** a username and a single level of password log-in is required. In step **412** a determination is made as to whether or not the password is valid. If a valid password, then the process proceeds to step **424**. If not, then in step **404** a determination is made as to the number of invalid attempts. After three invalid attempts, in step **406** the account is frozen and in step **408** an email is sent to the individual who may, in step **410**, implement procedures to change the password and re-open the account.

Returning to step **424**, a determination is made as to whether the account is associated with an individual or a family. If the account is associated with a family, then in step **426**, the user can select the family member and access the family database **428**. If, in step **424** the account is not a family account, then in step **430** the user can view their mailbox showing new PDF files and voice files. Preferably, these new files include date and time stamps so that the user can see when the files were received.

In step **432**, the user is allowed to annotate the messages to better identify the messages in a manner that is convenient for the user. In step **434**, the user can play the voicemail messages. In step **436**, the user can choose to save the messages to voice storage **438** or to send the message to the trash **440**. In step **442**, the user can select a doctor to associate with the voicemail messages. For example, the doctor from which the voicemail or imaged document was received. Preferably the doctor is within the doctor database **444**. If not, then in step **460**, the user can update the doctor database **444** to include the doctor. The user can then organize the voicemail or document according to the user's preference into one or more file folders. Examples of file folders include RX **446**, XRAYS **448**, LABS **450**, EXAM NOTES **452**, OTHER **454**. The user can make new file folders such as file folder **456** and identify it appropriately. The user interface offers functions **458** such as movement of files between folders, drag and drop, cut and paste, and/or other functions that will assist the user in organizing their records.

FIG. **7** illustrates one embodiment of a screen display of the present invention. In FIG. **7**, the screen display **500** includes a menu bar **502** along the top with different menu items such as "Home" **504**, "My Medical Records" **506**, "My Calendar" **508**, "Manage Prescriptions" **510** and "My Doctor" **512**. The screen display **500** also includes a reminder to the individual of their LIFELINE toll free dedicated phone number **514**. A message center **516** includes alerts as to recent faxes, voicemails, doctor appointments, prescription refills, or other related events. The user can view the recent faxes **518**, and for each fax, can file it using fax filing options **520** which allow the user to give a document title to the fax, associate a physician with the fax, file the fax under a particular account where the account is a family account, and identify the fax as a prescription, x-ray/image, or lab report.

FIG. **8** illustrates another example of a screen display according to one embodiment of the present invention. In FIG. **8**, the screen display **550** also includes a files section **552** wherein different folders are shown for storing and organizing information. This allows a user to store records in a manner appropriate for them. In one embodiment, the folders can include separate folders for lab reports, prescriptions, x-ray/images, dental records, lab reports, prescriptions, and all records. As shown in FIG. **8**, there is a promotional space **554**. The present invention allows for promotional material to be placed in the promotional space **554** that is of potential interest to the user. The promotional information can come from a third party source or advertiser. In additions, news information may be placed in a news information portion **556** of the web page. The news information can include breaking news regarding the medications that the patient is on, health and fitness news, or other news of potential interest or importance to the user.

FIG. **9** illustrates one embodiment of using the health-related information collected to provide additional benefits to a consumer. For example, the present invention allows for a

system **600** that includes a personal health records database **602** and a drug interactions database **604** operatively connected to an analysis system **606**. The analysis system **606** is operatively connected to a drug interaction reporting component **608**. The personal health records includes information regarding which prescription drugs are being taken by the user. The drug interactions database **604** includes information regarding known interactions between different drugs. The analysis system **606** analyzes the prescription drugs taken by the user to determine if there is any known interaction that may be adverse in any way to the user. Based on the results of this analysis, the drug interaction reporting component **608** reports the results to the user, their pharmacist, doctor, or other health care provider as appropriate. The present invention contemplates that drug interaction reporting can be reported in different ways to different people based on factors such as user preferences regarding the drug interacting reporting, the severity or certainty of a determined adverse drug interaction, or otherwise. The present invention contemplates that in addition to drug interaction analysis and reporting, other types of analysis and reporting can be performed on the personal health records. One of the advantages of the present invention is that it allows for a convenient method to build and maintain complete and up-to-date health records, thus allowing the personal health records to be analyzed in any number of ways.

The present invention provides for numerous other features and advantages. For example, the web site can provide reminders for doctor appointments, prescription refills, or other events through email reminders or text messaging reminders. In addition, the web site allows the user to select the option of sending information via fax to a care provider. For example, a user can fax a prescription to their pharmacy of choice. In addition, the user can fax their medical records received from one health care provider to another health care provider.

The present invention is not to be limited to the specific disclosure provide herein. The present invention contemplates numerous variations as may be appropriate in a particular context, environment, or situation. For example, the present invention contemplates that the health care records can be medical records or dental records. The present invention contemplates that the health care records can include records for pets as well as humans, and other variations.

What is claimed is:

1. A method for providing a consumer with a service to access and collect personal health records associated with the consumer in a secure and private manner, comprising:

providing a phone number to the consumer through a web site, the phone number individually associated with and dedicated to the consumer for private fax and voice communications from a health care provider;

associating access information with the consumer for the consumer to use to access the web site hosted on a web server using a web-enabled device;

providing the consumer with a document to provide to the health care provider, the document requesting and providing authorization from the consumer to the health care provider for faxing existing personal health records of the consumer to the phone number and faxing future personal health records of the consumer to the phone number as the future personal health records are created by the health care provider;

receiving a private fax communication at a fax server, the private fax communication comprising a personal health record associated with the consumer for which the consumer has requested and authorized the health care provider to send to the phone number, wherein the personal health record is from the set consisting of a patient chart, a birth certificate, a vaccination record, a medical history, a lab report, a test result, a prescription, an x-ray result or image, a scan, and an EKG result or image;

converting the private fax communications into an image file format at the fax server;

storing the personal health record encoded in the image file format such that the personal health record is accessible through the web site;

providing the consumer with access to the web site hosted on the web server, the access provided through use of the access information and providing on the web site an interface to the personal health records of the consumer for the consumer to use to access the personal health record;

providing a means of receiving a voice communications message from the health care provider to the consumer and maintaining the voice communications message as private; and

alerting the consumer of the voice communications message from the health care provider and providing the consumer with access information to access the voice communications message.

2. The method of claim **1** wherein the document is a sticker adapted for attachment to the personal health records.

3. The method of claim **1** further comprising providing the consumer with an emergency access card comprising the access information and adapted for use by a third-party to access the personal health record associated with the consumer in event of a medical emergency associated with the consumer.

4. The method of claim **1** wherein the web site interface further provides for organizing and annotating the personal health records by the consumer into separate file folders with functionality for the consumer to name the file folders and add file folders.

5. The method of claim **1** further comprising alerting the consumer of a fax transmission from the health care provider.

6. The method of claim **5** wherein the alerting comprises sending a text message.

7. The method of claim **5** wherein the alerting comprises sending an email.

8. The method of claim **5** wherein the alerting comprises sending a voice message.

9. The method of claim **1** further comprising providing on the web site means to calendar a prescription refill.

10. The method of claim **9** further comprising sending a reminder regarding the prescription refill.

11. The method of claim **1** further comprising providing on the web site means to calendar an appointment with a health care provider.

12. The method of claim **11** further comprising sending a reminder regarding the appointment with the health care provider.

13. The method of claim **12** wherein the reminder is a text message.

14. The method of claim **12** wherein the reminder is an email.

15. The method of claim **12** wherein the reminder is a voice message.

16. The method of claim **1** further comprising receiving payment from the consumer for facilitating access to the personal health records associated with the consumer.

17. The method of claim **1** wherein the web site provides means to facilitate creation of wallet cards containing access

information and stickers requesting the health care provider to fax health records to the phone number.

18. The method of claim **1** wherein the health records include prescriptions for drugs and comprising analyzing interactions between the drugs and reporting the interactions.

19. A method for providing a user with a service to access and collect personal health records associated with the user in a private manner, comprising:

assigning through a web site, a destination address associated with a user for private fax communications from a health care provider without having the health care provider enter a personal identification number of the user;

associating access information with the user for the user to use to access a web site hosted on a web server using a web-enabled device;

providing authorization to the health care provider to send existing and future personal health records to the destination address;

receiving a private fax communication at a fax server, the private fax communication comprising a personal health record associated with the user for which the consumer has requested and given permission to the health care provider to send to a fax number;

converting the personal health record into an image file format at the fax server;

storing the personal health record encoded in the image file format such that the personal health record is accessible through the web site, wherein the personal health record is from the set consisting of a patient chart, a birth certificate, a vaccination record, a medical history, a lab report, a test result, a prescription, an x-ray result or image, a scan, and an EKG result or image;

associating the personal health record encoded in the image file format with a user account of the user on the web site;

providing the user with access to the user account on the web site through use of the access information;

providing a means of receiving a voice communications message from the health care provider to the consumer and maintaining the voice communications message as private; and

alerting the consumer of the voice communications message from the health care provider and providing the consumer with access information to access the voice communications message.

20. The method of claim **19** wherein the destination address identifies the user or the user account.

21. The method of claim **19** wherein the destination address comprises an individualized fax number.

22. A method for providing a user with functionality for accessing and collecting personal health records associated with the user, comprising:

associating access information with the user for the user to use to access a web site hosted on a web server using a web-enabled device;

providing the user with a document to provide to the health care provider, the document requesting and providing authorization from the user to a health care provider for faxing existing personal health records of the user to a phone number and faxing future personal health records of the user to the phone number as the future personal health records are created by the health care provider;

receiving at the web site a personal health record encoded in an image file format, wherein the personal health record is from the set consisting of a patient chart, a birth certificate, a vaccination record, a medical history, a lab report, a test result, a prescription, an x-ray result or image, a scan, and an EKG result or image;

associating the personal health record encoded in the image file format with a user account of the user on the web site;

providing the user with access to the user account on the web site hosted on the web server, the access granted through use of the access information;

providing a means of receiving a voice communications message from the health care provider to the consumer and maintaining the voice communications message as private; and

alerting the consumer of the voice communications message from the health care provider and providing the consumer with access information to access the voice communications message;

wherein the personal health record encoded in the image file format is a representation of a faxed communication from a health care provider directed to an individual phone number uniquely associated with the user account to thereby provide for conveniently collecting the personal health records from the health care provider.

23. The method of claim **22** wherein the individual phone number is a toll-free phone number.

24. A method for providing a user with functionality for accessing and collecting personal health care records associated with the user, comprising:

associating access information with the user to use to access a web site hosted on a web server using a web-enabled device;

providing the user with a document to provide to a health care provider, the document requesting and providing authorization from the user to the health care provider for faxing existing personal health records of the user to a phone number and faxing future personal health records of the user to the phone number as the future personal health records are created by the health care provider;

receiving at the web site a personal health care record encoded in an image file format from the health care provider, wherein the personal health record is from the set consisting of a patient chart, a birth certificate, a vaccination record, a medical history, a lab report, a test result, a prescription, an x-ray result or image, a scan, and an EKG result or image;

automatically determining a user account associated with the personal health care record and associating the personal health care record with the user account on the web site;

providing the user with access to the user account on the web site through use of the access information;

providing a means of receiving a voice communications message from the health care provider to the consumer and maintaining the voice communications message as private;

alerting the consumer of the voice communications message from the health care provider and providing the consumer with access information to access the voice communications message;

wherein the personal health care record encoded in the image file format is a representation of a faxed communication from the health care provider.

25. The method of claim **24** wherein the phone number is individually associated with and assigned to the user through the web site.

* * * * *

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 8,121,855 B2
APPLICATION NO. : 11/225518
DATED : February 21, 2012
INVENTOR(S) : Robert H. Lorsch

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 13, Claim 17, Line 2:
ADD: after to fax --personal--

Column 13, Claim 18, Line 3:
ADD: after wherein the --personal--

Column 13, Claim 19, Line 21:
DELETE: "consumer"
ADD: --user--

Column 13, Claim 19, Line 39:
DELETE: "consumer"
ADD: --user--

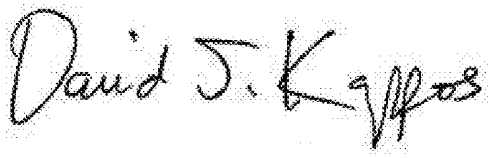
Column 13, Claim 19, Line 42:
DELETE: "consumer"
ADD: --user--

Column 13, Claim 19, Line 44:
DELETE: "consumer"
ADD: --user--

Column 14, Claim 22, Line 10:
DELETE: "consumer"
ADD: --user--

Column 14, Claim 22, Line 13:
DELETE: "consumer"
ADD: --user--

Signed and Sealed this
Fourteenth Day of August, 2012



David J. Kappos
Director of the United States Patent and Trademark Office

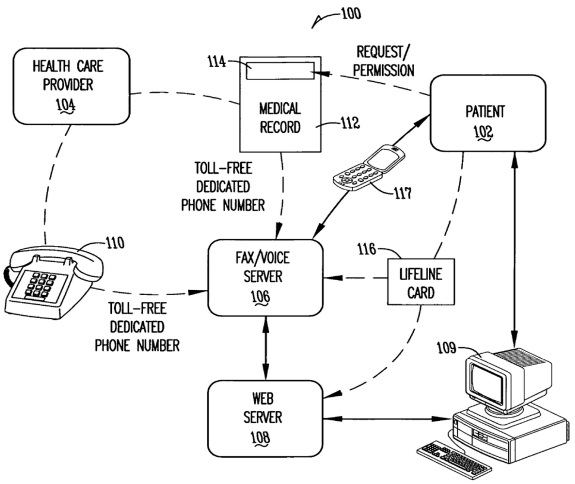
Column 14, Claim 22, Line 15:
DELETE: "consumer"
ADD: --user--

Column 14, Claim 24, Line 53:
DELETE: "consumer"
ADD: --user--

Column 14, Claim 24, Line 56:
DELETE: "consumer"
ADD: --user--

Column 14, Claim 24, Line 58:
DELETE: "consumer"
ADD: --user--

专利名称(译)	用于提供在线医疗记录的方法和系统		
公开(公告)号	US8121855	公开(公告)日	2012-02-21
申请号	US11/225518	申请日	2005-09-12
[标]申请(专利权)人(译)	洛尔施罗伯特·		
申请(专利权)人(译)	洛尔施罗伯特·		
当前申请(专利权)人(译)	MYMEDICALRECORDS.COM INC.		
[标]发明人	LORSCH ROBERT H		
发明人	LORSCH, ROBERT H.		
IPC分类号	G06Q10/00 G06Q50/00 A61B5/00 G06F19/00 G16H10/60		
CPC分类号	G06F19/322 G06Q10/10 G06Q50/22 G06Q50/24 G06F19/3456 G06F19/3487 G16H10/60 G16H15/00		
审查员(译)	MORGAN，ROBERT		
其他公开文献	US20070061169A1		
外部链接	Espacenet USPTO		

摘要(译)

提供了一种用于向消费者提供以安全和私密的方式访问和收集与消费者相关联的个人健康记录的能力的方法。该方法包括分配与消费者单独关联并专用于消费者的免费电话号码，用于来自医疗保健提供者的私人传真和语音通信，将访问信息与消费者相关联以供消费者用于访问安全网站，接收私人传真通信，包括与消费者已经请求的消费者相关联的个人健康记录，并且允许健康护理提供者发送到免费电话号码，将私人传真通信转换为图像文件格式，存储健康记录以图像文件格式编码，并使用访问信息向消费者提供对网站的安全访问，并在网站上提供消费者健康记录的界面，供消费者访问健康记录。