

# **A SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM**

## **CROSS REFERENCE TO RELATED APPLICATIONS**

This application claims the benefit of US provisional patent application No.  
5 61/ 313,145 filed on March 12, 2010 and incorporated by reference as if set forth herein

## **FIELD AND BACKGROUND OF THE INVENTION**

The present invention relates in general to the need of modern computer age users to have easy, affordable, and immediate access to their personal information regarding many aspects of their daily life, including but not exclusively related to their  
10 financial, economical, work related sensitive data files, their medical updated records, other and important personal files and their many registered and favorite websites access data needs. The invention also relates to secured personal data exchange, storage and handling processes done through a combined computer, Internet and telephony based system.

15 More particularly, the invention relates to combined computers, Internet and telephony dedicated systems supporting for a plurality of users solutions to get access, store and manage their personal data in a safe and secured way, by using a personal data authenticator functioning as a smart and advanced token, to get a safe and highly secured access to the system and to store updated vast amount of their personal data on  
20 easy to carry tokens.

The ways, communication channels and the required data storage size and data throughput capacity of modern computer systems and their user's communication needs are fast expanding in the required operational performance needs, data storage capacity and associated required technical capabilities. Modern computer systems need  
25 in many cases also to support the communication needs between the users and various computer supported services, enabling the handling and exchange of very large files of data between services and information providers and clients. Such large files sizes handling systems are in many cases required to securely manage their users and clients textual, numeric, imagery, audio, graphics and many other personal data files of a highly  
30 sensitive information related to the system's users, or clients personal data. Such

systems are typical to the needs of organizations such as hospitals, government and municipal agencies, banks, insurance companies and other financial institutes, which needs are rapidly changing towards higher data throughput and storage capacity, yet keeping the users and clients personal information in full security and confidentiality.

5           In parallel, today more and more users have the will to use new technological solutions and methods to be able to store and easily get access to their own personal data while storing it in small portable devices and through these devices also to be able to download, retrieve and manage most if not all their personal data and daily operational needs. The users may also have the need to use their personal ID data to create personal  
10 files and other private files and to have an access to other large size data files, through special highly secured dedicated computerized systems. By using such dedicated secured combined systems, the users will be able to securely transfer and exchange sensitive and private personal data and information with other authorized specific users and with suppliers of large scale size personal data files. These files may serve the  
15 growing secured personal data exchange, sharing and transfer needs of external services providers and suppliers using and generating highly personal data files , such as hospitals, banks, Insurance companies, government office and agencies, etc.

          In order to get access to secured data files in most computerized systems users are usually required to be first recognized and identified by the computerized system as  
20 legitimate registered users, prior to getting access to the secured data files. Each one of these systems users is therefore required to first provide the computerized system with some data strings of secret information, unique to this user, in order to be recognized by the computerized system as a legitimate user and then the user is permitted to get entry access to the system. The process of the user being recognized and approved by a  
25 computerized system is called authentication. A two-factor authentication is an improved security process in which a user provides two types or means of his personal identification, one of which is typically a physical token, such as a card, and the other of which is typically something memorized, such as a security code. In this context, the two factors involved are sometimes spoken of or referred to as something a user has and  
30 something a user knows – a pass code. A common example of two-factor authentication is a bank card: the card itself is the physical item and the personal identification number (PIN) is the known data, as a second factor, that goes with the bank card.

Markets available hardware token generators may presently be used for authentication to enterprise systems. However, a hardware token generator only generates a token to be used by a user or a holder of the hardware token generator to manually supply the token for authentication. For example, a two factor authentication  
5 can require that the second factor be a "physical token," i.e., something the user has, that can produce (i.e., display) the second factor token (such as a numeric string) that the holder of the "physical token" can enter at a terminal providing access to a sought service. However, a drawback of a hardware token generator is that a lost or stolen hardware token generator can be used to breach security or for fraud. Another drawback  
10 is requiring a user to manage an additional physical token for authentication purposes. Another drawback is multiple hardware token generators are needed for multiple authentications to different systems. Also, a hardware token generator does not adequately prevent from phishing by hackers and criminals, because a two-factor authentication using presently available hardware token generator as the second factor,  
15 are still susceptible to "man in the middle" type attacks.

The prior art covering some of these capabilities is described in several publications as detailed herein.

A method for writing medical prescriptions, storing, and accessing patient medical records with improved portability and improved patient data security using a  
20 USB dongle device, is described in US Patent Application No. 20090204433, filed August 13, 2009. The portable USB dongle device containing the patient records and software is easily removed and transported to other local terminals. The relevant patent describes a method for controlling access to medical records comprising: A) Providing a portable memory device which is able to store controlling software and said medical  
25 records; B) Providing a display device which is operationally connected to a microprocessor which will display said medical records & will selectively control a display of said medical records; and C) Using Fingerprint biometric authentication.

Medicard by Walletex Microelectronics Ltd. (<http://www.walletex.com>), from  
6300 N.W. 97 Ave. Miami, Fl. 33178, USA, is a credit card size and shape USB flash  
30 memory for the user's medical records. MediCard has a large, double sided area that can be printed with the user's name, picture, doctors' names and phone numbers, information on allergies and medications, and other life-saving facts for emergency first-

responders. It has enhanced security offering Strong AES Encryption, Password protection, Memory partitioning (Read only part, Secured part, Public part), Large memory capacity (up to 8GB), may contain both data and application software. Optional features are Biometric recognition, Magnetic strip.

5 US patent application No. 2008/0041940 A1; filed June 4, 2007 partially covers some of the elements that were integrated into the Walletex Medicard device product. This patent application only includes two claims on a system which partially relates to the Medicard product as prior art, The first system claim is; A system of capturing and storing personal data, patient medical records and medical insurance and payment  
10 information comprising: a) providing a credit card-sized USB flash drive or similar device to store said patient medical records combined with a Smart Card or similar device to store said payment information including medical insurance and payment information such that said USB flash drive and Smart Card combination easily fits into one's wallet or worn on a necklace; and b) providing a USB jack and a means for  
15 emergency medical workers, hospital workers, and other health and medical workers to view and change said patient medical records; and c) providing a Smart Card and a means for health and medical workers to process said medical insurance and payment information, whereby said system will allow an individual to contain said patient medical record and said medical insurance and payment information in one small credit  
20 card-sized unit. Their second claim is: The credit card-sized USB flash drive or other device of claim 1 providing a mechanism for encrypting patient data such that it may only be viewed when a pass phrase, pin number, or similar phrase is entered by the owner via keyboard. Biometric information may also become available once Card development allows for this feature.

25 What we can learn from the relevant prior art is that medical data has the need to be readily available to the patients and to the medical treatment teams when needed, but the US patent application No: 2008/0041940 A1, as well as the Walletex product do not cover several highly important and medical markets required operational and security features and capabilities, to make together a fully acceptable and working  
30 solution. First due to the sensitivity of the medical records, the access to them should be highly secured and a simple password or even one biometric access permit, as appears at the end of the above cited US patent application second claim, but without any

supportive description in the cited patent body itself, is not enough to ensure that a third party with negative intentions will not be able to get access to the user/patient secured medial data. Also this invention card does not have any connectivity and access to mobile phones and especially to the fast growing numbers and types of smart phones, as  
5 such an access capability is a real need in the modern living environment, due to the support these phones give to sustain the user's continuous voice and data communication capability with various service providers, as well as medical support and aid services, wherever the user is located. Also, essentially missing in the Walletex device and US application No: 2008/0041940 A1 prior art, is the required capability to  
10 measure and sense that a live person is authenticated as the user of the device while the user is actually holding the device in his hands, to avoid the possibility of using the user's access data and even a silicon copy of his fingerprint to fake his presence and get access to the user's secured personal information, this is true not for only medical personal records but also and even more crucial and relevant in the case of getting  
15 access to financial records, private data records and classified organizational records, if the user belongs to organization and has a special personal access permit to highly secured information that he needs to carry with him.

It is also highly recommended that when access is given to the sensitive medical records, or other personal data files, when and if the life signs measured results  
20 of the devise holder are not normal, to have in the devise the feature of self initiating an emergency call through the user's connected cell phone, or by the user connecting to a host computer, to get a safe access to a remote computer center that will call for emergency medical treatment or an urgent evacuation of the user to the nearby hospital. This requirement of a personal emergency device was dealt by prior art but no practical  
25 device was introduced successfully to the markets yet.

Also there is a need to create hierarchy in the access level of permits to the sensitive medical data stored in such a device, as the level of details and amount of medical data on the patient required by the medical rescue team is different and much lesser in content and details than the required access to much more detailed and  
30 professional medical data on the patient when the patient has to be professionally diagnosed and treated when he arrives at the hospital emergency room.

Accordingly, there is a need to improve and enhance the access control capabilities to first securely and efficiently authenticate the specific user before giving this user access to sensitive personal data files and then after the user being authenticated in a very high level of security and reliability, to be able to safely and securely communicate and exchange the user's personal secured data with other specific authenticated and pre-approved users and especially with a wide spectrum of registered and approved service and dedicated data providers.

Modern cellular phones, known as smart phones, are being frequently used as personal data storage and access devices, used for such applications as holding the user's phone books and personal data records, but the problems associated with this solution is due to the frequent modern cellular phones models changes and many technical failures of these phones, all that leads to the fact that in many cases critical users' data is getting lost or injured during the process of the devices repeating, maintenance and management procedures as well as the users frequent cellular phones and personal computers changing and upgrading to newer models. A better solution will therefore be to separate the user's sensitive and private data storage and management functions from the cell phone communication and display functions. This functional separation importance between private and personal data storage functions and the communication functions, can be recognized, detected and clarified especially during all the user's sensitive acts of private and needed to be concealed and secured data transfer activities from one device to the other. There is a need in this aspect for holding the user's private and needed to be secured data on a separate highly operational and reliable device, that will be adapting itself and act at the user's portable private data storage device through all the changes, upgrading and maintenance cycles that the user does with his cellular phone and/or personal computer. The user's personal portable data storage device will be able to be connected and then automatically and immediately communicate and interact with the user's new or upgraded cellular phones, in parallel there is a need that the personal device will be able to connect and interact also - with the user's personal computer, as well as with his computer terminal at work, whenever required.

This set of combined capabilities is especially required if the user wants to use the same device to store his own personal mass data base of financial and/or medical

records of a highly sensitive level of data, combined with and containing textual, imagery, audio, graphics and figures - covering most if not all the specific user, continuously updating personal data, financial, medical and other modern life management information while ensuring the highly demanding requirements of secured data maintenance.

Regarding these very high security and privacy maintenance requirements and the users sensitivity to the fast expanding technical means and operational trends of exchanging financial related data and making financial transactions through modern computerized communication lines and networks, such as the interment and intranet, there is a need to improve the presently used means and methods of the users interaction through those networks, as they are done today mainly only by simply providing and exchanging the user name and password information as the only security protection means to enable users' access to finance institutions and banks and then it enables users to execute highly sensitive and top security demanding actions such as executing actual financial transactions and stocks trading. It is therefore highly recommended and required to offer more advanced practical new technologies based means and solutions, to provide and support enhanced and improved authentication, communication and data access and remote transactions executions means to provide much better personal financial data exchange, providing enhanced security for sensitive and private information exchange and provide secured and safe sensitive storage and deals executions with better safety and security. The present lack of such improved financial transactions security management solutions, creates the existing markets vast spectrum of mal-opportunities to hackers and criminals to get access to sensitive financial data and the related financial resources of users and organizations and then execute criminal acts on them, related a wide spectrum of misrepresentation based transactions by practically using other users' money. These criminal activities are presently creating annually hundreds of millions of US\$ direct damages to the injured users and organizations and consequently also to the insurance companies that insure them through their banks and their credit card companies.

In addition, there is thus a widely recognized need for, and it would be highly advantageous also to have, a dedicated combined computer, Internet and telephony system supporting the multiple authentication, sensitive and very private personal data

access and storage of users personal, financial and medical data and then supporting the daily needs for a plurality of said system pre-registered users, to securely communicate and operate their daily highly secured data interaction needs with a multiple of authorized, approved and secured services providers by using the system and adding to it as a critical highly required to security supporting new element by the implementation and the use of said dedicated hand held devices to communicate safely though this dedicated system getting access to said system by the use of said hand held apparatus which has the capabilities of being a combined multi level personal data authenticator and a secured and encrypted mass memory of personal or organizational sensitive and very private data with immediate access to the user holding his very private apparatus wherever he goes.

There is also a need for a highly secured and computerized communication system. Such a system will be open only to pre-registered and enhanced security check approved clients, while the system registered clients will get access to said system only with their system advanced, also pre-registered authentication managing token concept - is expected to dramatically reduce the cases of criminal acts by electronic means to execute financial deals and enable better monitoring and detection any suspicious such deals and quickly and easily track hackers trials to enter that secured system. The system users interaction with the secured system enabled only by using their tokens, will provide each such system user an optimal way to first verify that his entry and interaction with the system is fully authenticated and thus highly protected, then to track his deals as they are processed and to monitor their final execution results before each such a deal is finally approved and finalized by the user.

It is therefore highly recommended and there is a need to have an operational and reliable solution that will support for a multiple of registered users a secured communication and data management needs through a dedicated system and that the system's users will need to use their proposed private personal tokens, operating both as a user combined personal data authenticator and as a secured mass memory personal or organizational portable data storage and handling device, for providing secured and safe accesses to said secured system and to external databases containing sensitive private information of the system users.

## SUMMARY OF THE INVENTION

The following embodiments and aspects thereof are described and illustrated in conjunction with systems, apparatuses and methods, which are meant to be exemplary and illustrative, not limiting in scope. In various embodiments, one or more of the  
5 above-described limitations and emerging modern user's growing needs have been solved, reduced or eliminated, while other embodiments are directed to other advantageous or improvements.

The core of the present invention is an advanced and highly reliable new generation of physical safe entry and secured access support tokens, in the shape of a  
10 small palm size, hand held apparatus, geared to serve and support the user's secured entry needs to modern computerized systems. The invention apparatus has an integrated highly secured personal data communication and management capability, combined with a built-in multi level user's bio parameters measurement and authentication module. In parallel, the invention apparatus fully supports the user's needs for secured  
15 data communication capability, to and from a very large data storage capacity, solid state memory module, which is an integral part and is resident within the invention apparatus.

According to the present invention, there is also provided highly secured personal data storage and handling combined system - integrating computers, Internet  
20 and telephony components. Supporting the system and its users highly secured personal data handling needs, is the dedicated present invention apparatus, having an integrated built-in, offering multiple security level set of at least two bio sensors, measuring the user's unique personal biological parameters and further providing highly reliable and safe authentication capability, based on the processing of user's measured set of  
25 biological parameters. The combined system is enabling for very sensitive personal data files, local memory and remote data suppliers secured access, highly secured personal data exchange and secured personal data storage, by a plurality of users. The system's registered users are communicating and operating through the dedicated system with a multiple of specially authorized services providers, by using the dedicated hand held  
30 personal data authenticator apparatus, having a built highly secured and encrypted mass memory for its user personal data storage capacity , thus enabling to upload and down

load to and from the apparatus memory updated personal data from the authorized services providers that are pre-registered in the invention system. The apparatus comprises a large memory capacity solid state data storage module, adapted to store the user personal data, while the updated personal data is residing and readily available to the single and unique user. The invention apparatus can serve any user on a private and personal level, or alternatively to serve secured data handling by employees and management of various types of organizations for securely managing all the inter-organization proprietary data, while each such employee is using the hand held present invention apparatus as a high security access key to the company's proprietary information. For the usage of the present invention system, each one of the invention system's multiple users needs to use the invention apparatus in order to provide him or her with secured and safe accesses to the combined highly secured dedicated present invention system.

The existence of such a highly secured communication system, closed for access to the open public according to the present invention, is providing a unique secured and personal data management solution that is only open to pre-registered and enhanced security check approved clients or users. The system registered clients are getting access to the invention system only by using their advanced, also pre-registered authentication managing tokens, which are the invention apparatuses. This new concept is expected to dramatically reduce the cases of criminal acts carried out by penetrating into financial computerized systems, using electronic means to execute faulty financial deals. Furthermore, it will enable better monitoring and detection of any suspicious such deals followed by quick allocation and capture of the financial system intruders who have criminal intentions. Also, it will enable easier tracking of hackers' attempts to enter the secured system and to damage its proper and normal functionality. The system's users interaction with the secured system, which is enabled only by using their personal devices, will provide each such system user an optimal way to first verify that his entry and interaction with the system is fully authenticated and thus highly protected, then to track his deals as they are processed and to monitor their final execution results, before each such a deal is finally approved and finalized by the user. This means that only the authenticated user and no other user will have the possibility to have access to

the user's personal files and accounts and to be able do any kind of transaction with, or through them.

In another typical embodiment of the invention, there is a method of operating the invention system comprising the steps of; A) a system user first applying a step of  
5 going through a series of multiple level bio personal parameters measurement, processing the measured parameters and then use the results for the user authentication; then B) enabling the authenticated user to manage his personal data, while getting full access to his personal data as well as the user's personal data updating and storage in his personal apparatus. The process is enabled by the user safely connecting through the  
10 invention's system with a plurality of such highly secured other system users and for communicating and exchanging secured and encrypted data with a multiple of dedicated, approved and highly secured services providers. By using the dedicated hand held personal data authenticator having an integrated highly secured and encrypted mass memory personal or organizational data module, all integrated within the invention hand  
15 held dedicated apparatus, each of the invention system's users needs to use his or her very personal and highly secured present invention apparatus, in order to provide him or her with a secured and safe access to the combined, dedicated secured system for handling and managing a plurality of users secured personal data .

The present invention will create a new safe and secured communication and  
20 secured personal data exchange and updating method for private and organizational staff users, which is highly required for supporting the handling, exchanging and storing of mass sizes highly personal and/or organization private and secret data packages, which does not exist today. The system and its operational method is also providing the user with the capability to actively manage a secured safe access to the mass storage data  
25 capacity of his highly sensitive and personal data bases and to files stored and continuously updated, by the various registered data and service providers, while using the user's private and secured memory partition within the present invention system memory, structured as very large data storage capacity bank. The user might like to get new data from the system memory and down-load it into the present invention  
30 apparatus, acting as his personal data storage device and also decide which part to send to another system user, or to specific approved and highly secured special services providers.

According to another embodiment of the present invention, there is provided an apparatus integrated with at least two special bio sensors and physical parameters measurement means, supporting exclusively and only the apparatus owner and user's personal biological and physical body parameters measurements and authentication, while continuously conducting multiple level bio personal parameters positive authentication process of the apparatus predefined legitimate physical measured parameters. The apparatus is always encrypting and also enabling only one specific user personal data storage, access and data exchange and serving as a mass memory capacity personal data storage by its private user, enabling the device personal owner to communicate and operate through the dedicated system with a multiple of specifically approved services providers by using the dedicated hand held personal bio parameters measured data authenticator and using the built-in and integrated secured and encrypted mass memory personal or organizational highly sensitive and personal data, each of the dedicated systems users needs to use only his/her own very private apparatus in order to provide him or her with a secured and safe accesses to the combined and highly safe and secured system.

According to another embodiment of the present invention there is provided an apparatus that can detect the user's potential emergency situation while analyzing that the life signs measured results of the apparatus holder are not normal, to have in the apparatus the feature of self initiating an emergency call through the user's connected cell phone, or by transmitting a message through the internet when the user is connecting his apparatus to a host computer, to get a safe access to a remote computer center that will call for emergency medical treatment or for an urgent evacuation of the user to the nearby hospital. With the apparatus integrated electronics and communication means the apparatus can be easily and seamless connected to and communicate through a modern cellular phone, or any type of a host computer with the invention dedicated central secured personal data storage and management computer system that will call the emergency units of the nearby hospital based on the location of the sick person which can be calculated from the user's location identification, information that can be derived from the inherent device location identification capability of any modern cellular phone.

To better understand the user's benefits of using the invention apparatus and system, it is required to learn that presently users are frequently losing time and again, their saved personal and important data files, due to mechanical or electrical failures of their electromagnetic driven hard-discs, or suffer from sensitive data files failure or damages related to malfunctions of their personal computers or smart cell phones. Another source for lost sensitive data files, that many time are of a highly personal and important data, is due to software malfunction problems while running on the users' personal computers or smart cell phones, such problems are also frequently created by viruses and Adware infections in the users' computers or cell phones. All these problems can be eliminated, or at least substantially reduced, if the users will use their invention apparatus with its very large solid-state memory data storage capacity, to serve them, as their daily needs supporting backup memory. The invention apparatus is therefore fully supporting of the modern user needs for a highly reliable secured data, solid-state based memory and is protected against viruses by embedded, related, advanced anti-virus anti-Adware software that is frequently updating its DB every time the user is connecting his apparatus to the system, or to the internet through his host computer. Another family of common cases of frequently lost sensitive and important data files is typical to the modern users' habits of frequently changing or upgrading their host computers and even more so, it is common and frequent for them to do model changes with the users' cellular phones. Every time it happens, the users are exposed to losing sensitive data such as a phone books stored in their changed devices. It happens mainly due to the user, or the related cellular service provider, or cell phone supplier not taking enough care and not performing professional and full coverage backup of all the stored data prior to changing the computer or phone. Most users are familiar with the cases that their electronic phone book content was damaged, if not totally erased, when they upgraded their cell phone. Keeping all the users sensitive data, such as his medical records, financial records, credit card access data, phone books, etc on their present invention apparatus wherein the invention system will always automatically create in its own memory a backup file for every file stored by the user on his personal invention apparatus, will support the modern users daily and growing need not to lose their sensitive personal data files in any of the above frequently happening and common system failure and lost data cases.

The apparatus of the invention therefore can integrate all its user's data storage needs in one small and portable device that can store sensitive data in a secured access and encrypted format structure.

5 There is a growing tendency in the recent years to put all the modern user communication needs in his smart cellular phone but the storage capacity and the safety of the data the user accumulates during his daily life will be much better managed and protected while serving the data in a separate device as described in the invention apparatus motile functions and capabilities.

10 The modern user could therefore gain the best solution for his daily needs by carrying with him and using on a daily basis both his smart phone as well as the invention's apparatus. Even in cases that the invention apparatus will be lost or stolen, the data in it as well as the user access given by it to other service providers such as the users' financial institutes will be secured and no access can be possible to this sensitive data to any other person rather than the user owning this specific apparatus.

15 Due to the total data handling high security and safety by using the invention apparatus, it can serve also for processing fully secured financial transactions, while keeping full records of the transaction stages and partners, both in the invention apparatus memory, as well as in the invention system server memory.

20 In one preferred embodiment of the present invention apparatus, the apparatus is managing personal and secured data and documentation files stored in the apparatus, the apparatus comprising: A) a sensor module comprising a plurality of biometric sensors for reading a plurality of personal biological identification parameters of the user holding the apparatus, the apparatus being uniquely identified with the user; and B) a processing module in communication with the sensor module for processing their  
25 personal biological identification parameters and for processing and managing the personal and secured data and documentation files associated with the apparatus user; and C) an authentication unit in communication with the processing module configured to receive and authenticate the identity of the apparatus user by comparing the apparatus unique user's personal biological identification parameters, as read by the sensor module  
30 and processed by the processing module, with a pre-recorded set of personal biological identification parameters stored in the apparatus authentication unit; and D) an encryption module in communication with the apparatus processing module for the

encryption plus compression and/or decompression plus decryption of the apparatus's user's data files; and E) a memory module in communication with the processing module and the encryption module for the storage of the apparatus's user's data and documentation files; and F) communication and data connection set of means in  
5 communication with the processing module for connecting the apparatus with an external device; wherein access to the user's stored personal data and documentation files associated with the unique user is only enabled after positive authentication of the user's personal biological identification parameters by the authentication unit.

In another further embodiment of the present invention apparatus, at least  
10 one of the apparatus's integrated pluralities of biometric sensors is a life signs detector, wherein the life signs detector is configured to measure and record at least one of the user's life sign parameters.

Yet, in another further embodiment of the present invention apparatus, at least one of the user's life sign parameters is measured by any of a group of life sign  
15 indicators including a body pulse rate measurement indicator, a body O<sub>2</sub> saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator.

In another embodiment of the present invention apparatus, whenever any of the group of life sign indicators detects a critical level, the apparatus is configured to  
20 initiate an emergency call to any of a group of registered emergency centers, and send to the registered emergency centers any of a group of data files containing information associated with the user, including the identification data file of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user.

In another further embodiment of the present invention apparatus, the  
25 apparatus has an integrated emergency button in communication with its processing module and the apparatus communication and data connection means module; and when the emergency button is being activated, communication is initiated between the apparatus and any of a group of registered emergency centers, the apparatus emergency  
30 call transmitting any of a group of data files containing information associated with the unique user of the invention apparatus, including the identification data of the user, the personal medical data file of the user, and location of the user.

In another further embodiment of the present invention, the apparatus is further comprising an integrated software module that automatically detects the operating system of the computer or cellular phone, connected to the apparatus through one of a group of communicating devices through which the apparatus is connected, and wherein the computer or cellular phone have a keyboard and display units associated therewith, thereby allowing the user to interact with the memory module and with the processing module of the apparatus via the external devices keyboard and display units, whereby the computer or cellular phone is configured to utilize and interact with the memory module, the processing module and the sensor module of the apparatus.

In another embodiment of the present invention, there is provided a method for managing personal and secured data and documentation files of a plurality of unique users, each one of the plurality of unique users having a personal identification unit, uniquely associated with the one user for storing each user's personal data and documentation files, each of the personal identification units comprising: a sensor module comprising a plurality of biometric sensors; and a processing module in communication with the sensor module; and an authentication unit in communication with the processing module; and an encryption module in communication with the processing module and the encryption module; and communication and data connection means in communication with the processing module. The method comprises the steps of: a) the sensor module reading a plurality of personal biological identification parameters of the user holding the apparatus; and b) the authentication module comparing the personal biological identification parameters of the user with a pre-recorded set of personal biological identification parameters stored in the authentication unit; and c) if the authentication unit positively identifies the user, allowing the user access to the user's personal data and documentation files stored in the memory module and allowing the user to communicate with other communication means through the apparatus.

In another embodiment of the present invention, there is provided a system for managing personal and secured data and documentation files of a plurality of unique users, the system comprising: A) a system manager for managing and updating personal data of the system plurality of unique users and for communicating with each of the plurality of unique users; and B) a memory sub-system connected to the system manager

to store updated personal data of each of the plurality of unique users; and C) a plurality of personal identification units, each of the personal identification units being associated with a unique user, each unique user being registered with the system manager and the personal ID data file of each unique user being stored in the memory sub-system; and D) 5 a plurality of computer hosts and cellular phones in communication with the system manager, enabling the direct connection by the system manager with the plurality of unique users through their corresponding personal identification unit; and E) a plurality of registered emergency centers and a plurality of registered service providers in communication with the system manager, the plurality of service providers including 10 banks, credit card companies, insurance companies, clinics, hospitals and medical insurance companies, government, municipal and utility entities and selected websites frequently accessed by the plurality of users; and wherein the system manager's access to and communication with the personal data and documentation files stored in the personal identification units associated with each of the unique users and to the personal 15 data and documentation files stored by the group of service providers is only enabled after positive authentication of the unique user's personal biological identification parameters by the authentication unit.

In yet another embodiment of the present invention, there is provided a system for managing personal and secured data and documentation files of a plurality of 20 unique users; the system further comprises: a computerized call center configured to receive phone calls or emergency voice and data messages from any of the plurality of registered emergency centers and a plurality of registered service providers and to communicate with any of the plurality of cellular phone and host computers; and wherein the call center is configured to communicate the user's location coordinates to 25 an emergency rescue team and simultaneously the call center is configured to communicate with any of the plurality of registered emergency centers and service providers to receive the user's updated medical data and to transfer the data to the user's personal identification unit.

## BRIEF DESCRIPTION OF THE DRAWINGS

The invention is herein described, by way of example only, with reference to the accompanying drawings, wherein:

Fig. 1 is a schematic illustration of an embodiment of the present invention  
5 related to the invention highly secured personal data dedicated communication and management system;

Fig. 2 is a schematic illustration of an embodiment of the present invention block diagram related to one of its possible conceptual modular structure and the internal sub-modules layout and functionality of the present invention apparatus;

10 Fig. 3 is a schematic illustration of an embodiment of the present invention apparatus, related to a conceptual external device look and functionality of one embodiment of the present invention apparatus;

Fig. 4 is a schematic illustration of an embodiment of the present invention related to one possible flowchart of the process for the use of the invention apparatus  
15 while interphasing to a cellular phone or a host personal computer for activation of various operations between the cellular phone and the apparatus, while using the cellular phone or the host computer display and keyboard hardware and functions;

Fig. 5 is a schematic illustration of an embodiment of the present invention related to a possible flowchart of the use of the invention apparatus to interact with the  
20 invention system servers, starting from the user's authentication and up to the stage of the user getting an approved access to the systems servers' data and for his further interactions with the system;

Fig. 6 is a schematic illustration of an embodiment of the present invention related to a possible flowchart of the mode of usage of the invention system, wherein a  
25 user applying the invention apparatus to interact with the system servers, starting from the stage of the user getting an approved access to the systems servers' data and then the user's further interaction with the invention system to execute various types of secured financial transactions;

Fig. 7 is a schematic illustration of an embodiment of the present invention  
30 related to another possible flowchart of the use of the invention system, wherein a user

applying the invention apparatus to interact with the invention system servers, starting from the stage of the user getting an approved access to the systems servers data and the user's further interactions with the system to execute highly secured import and export storage and processing of personal medical files;

5            Fig. **8** is a schematic illustration of an embodiment of the present invention related to another possible flowchart of the use of the invention system, for a user applying the invention apparatus to interact with the system servers, starting from the stage of getting an approved access to the invention system servers data and then for further interaction by the user with the invention system as required to execute  
10    uploading or downloading of any user' personal data files; and

            Fig. **9** is a schematic illustration of one embodiment of the present invention related to the invention dedicated device for charging and data backup operations of the invention apparatus, the device is demonstrating one possible conceptual modular structure block diagram and the internal sub-modules layout and functionality of the  
15    present invention device functional capabilities.

            The present invention will be more fully understood from the following detailed description of the embodiments thereof, taken together with the drawings.

## DESCRIPTION OF THE PREFERRED EMBODIMENTS

It would therefore be highly advantageous to have a highly confidential personal data and information management and storage combined solution, both on the user's personal portable device level, as well as the multi-users system level, that enable improved and highly secured personal or organizational data access, storage and management locally and remotely, serving the daily needs of secured and highly confidential data access of private users, as well as for large organizations internal staff.

In the following description, various aspects of the invention will be described. For the purposes of explanation, specific details are set forth in order to provide a thorough understanding of the invention. It will be apparent to one skilled in the art that there are other embodiments of the invention that differ in details without affecting the essential nature thereof. Therefore the invention is not limited by that which is illustrated in the figures and described in the specification, but only as indicated in the accompanying claims, with the proper scope determined only by the broadest interpretation of said claims.

In the following detailed description, numerous specific details are set forth in order to provide a thorough understanding of the disclosure. However, it will be understood by those skilled in the art that the present disclosure may be practiced without these specific details. In other instances, well-known methods, procedures, components and circuits have not been described in detail so as not to obscure the present disclosure.

Unless specifically stated otherwise, as apparent from the following discussions, it is appreciated that throughout the specification discussions utilizing terms such as "storing", "computing", "communicating", "authenticating", or the like, refer to the action and/or processes of a computer or computing system, or similar electronic computing device, that manipulate and/or transform data represented as physical, such as electronic, quantities within the computing system's registers and/or memories into other data similarly represented as physical quantities within the computing system's memories, registers or other such information storage, transmission or display devices.

The present disclosure may take the form of an entirely hardware embodiment, an entirely software embodiment, or an embodiment containing both

hardware and software elements. In a preferred system embodiment, the disclosure is implemented in software, which includes but is not limited to firmware, resident software, microcode, and so on.

5        Embodiments of the present disclosure may include apparatuses for performing the operations described herein. This apparatus may be specially constructed for the desired purposes, or it may comprise a general purpose computer controlled device selectively activated or reconfigured by a computer program stored in the computer.

10        Furthermore, the disclosure may take the form of a computer program product accessible from a computer-usable or computer-readable medium providing program code for use by or in connection with a computer or any instruction execution system. For the purposes of this description, a computer-usable or computer readable medium can be any apparatus that can contain, store, communicate, propagate, or transport the program for use by or in connection with the instruction execution system, apparatus, or  
15        device.

      The invention data processing, managing and storage system as well as the present invention apparatus are also adapted for storing and/or executing program codes, may include at least one processor coupled directly or indirectly to memory elements through a system bus. The memory elements may include local memory employed  
20        during actual execution of the program code, bulk storage, and cache memories which provide temporary storage of at least some program code in order to reduce the number of times code has to be retrieved from bulk storage during execution. Input/output or I/O devices (including but not limited to keyboards, displays, pointing devices, and so on) can be coupled to the system either directly or through intervening I/O controllers.

25        The present invention is of a system, an apparatus and a method combining and supporting highly secured data encryption, personal sensitive data storage, transfer, management and handling, carried out by and through the invention computerized, Internet and telephony based dedicated system. Supporting the system and its registered and pre-approved users secured access needs, is the dedicate present invention apparatus  
30        having an integral, built in, multiple level set of bio sensors, for collecting and measuring the device owning user personal parameters measured data. The present invention apparatus is used for highly reliable and safe and approved authentication of

the device owner. The invention combined dedicated system is enabling very sensitive personal data access, personal private data exchange and personal private data storage by a plurality of similar such pre-approved users, communicating and operating through said dedicated system with a multiple of specially authorized and pre-approved services providers. The system registered users are using, as a highly safe and secured access key, their dedicated hand held devices or apparatuses, which are acting for each such system registered user as his personal data entry authenticator. The invention apparatus has a built-in, highly secured and encrypted mass memory solid state data storage module, both of which reside within said personal or organizational hand held compact size dedicated apparatus. Each of the invention system's pre-approved user's needs to use his specific personal and private present invention apparatus, in order to provide him or her with a secured and safe accesses to the invention combined and highly secured dedicated system.

The principles, the building blocks and functional modules layout and the various functional operations of a system and an apparatus according to the present invention, may be better understood with reference to the drawings and the accompanying description.

Referring now to the drawings, Figure 1 illustrates the dedicated system **300** related to an embodiment of the present invention, when a pre-approved user is getting an access to the system through any one of the system server based multi-user I/O terminals **362**, or through any kind of a host personal computer **360**, or alternatively getting the access through a digital landline phone **365**, or a cellular phone unit, **355**. Secured access to the system is enabled by passing the user through a sequence of at least three bio parameters measurement and authentication process, carried out by the user's apparatus **350**.

**305** is a typical landline telephone communication network infrastructure, A user with his apparatus **350** of the present invention may connect to a digital smart telephone terminal **365** wherein the landline based digital smart telephone terminal **365**, is connected to the system manager **335** through the switch **320**, the landline phone network **305** and through a general communication Multiplexer sub-module **330**. A user may connect his apparatus **350** to a smart cellular phone **355** and his phone then connects through switch **325** to the cellular infrastructure network **310** and from there

through the general communication multiplexer sub-module **330** to the system server **335**. Another system user may access the system **300** through the use of his personal apparatus **350** linked to his computer terminal **360** which is connected through the international internet network **370** to the internet communication system server **345**.

5 **340** is a mass memory subsystem of the invention system **300**, storing and managing the system **300** entire Terabytes order of magnitude size typical memory capacity, containing personal data of all the system **300** users, in a highly secured, protected and encrypted format

The entire system **300** controlled and managed by a computerized server manager subsystem **335**, is securely transmitting and receiving, processing and storing  
10 all the system users set of ID data and secured large memory capacity personal dedicated data to be stored on the **340** storage subsystem. The system is interphasing its activities through the internet infrastructure **370** by using the system website server **345**. Multiplexer sub-module **330** enables the central system server **335** communication and  
15 data transfer from the landlines and cellular and phone networks **305**, **310** through the switches **320**, and **325** and multiplexed to the system server through multiplexer module **330**. The system server **375** is another server subsystem of the system **300** multiple users data management center, which manages the system secured connection and communication through a secured firewall gate protected switch **380**, which manages  
20 the system secured connection and data exchange communication through the internet, or through multiple dedicated point to point communication lines and channels **386**, to a plurality of pre-approved number of government offices, municipalities and other selected secured services and products purchasing providers as well as external personal memory data banks that the system needs to securely communicate and exchange  
25 relevant data with them for its registered plurality of user.

Server **375** is also responsible for managing the communication through a secured firewall gate protected switch **382** which manages the system secured connection and communication through the internet, or through multiple dedicated point to point communication lines and channels **388**, with a large number of registered banks  
30 and insurance institutes and other financial institutes that have accumulated and continuously updating relevant highly secured personal data related to each of the

system multiple users and that the system **300** needs to communicate with and download and upload data relevant to each of the system **300** registered multiple number of users.

Server **375** is also responsible for managing the communication through a secured firewall gate protected switch **384**, which manages the system secured connection and communication through the internet, or through multiple dedicated point to point communication lines and channels **390**, with a large number of registered hospitals, medical insurance companies, clinics, medical testing laboratories and medical imaging centers that generate and have accumulated and continuously updating relevant highly secured medical personal data about each of the system users, that the system **300** needs to communicate with and down load and upload data relevant to each of the system **300** registered multiple number of users.

System **300** has an emergency management integrated section that enables any of the system's registered users to immediately connect with the system in an emergency case. Connection is enabled by the user when pressing on an integral dedicated emergency button the user has in his apparatus **350**, when the apparatus **350** is connected to a cellular phone **355** or to a host computer **360**. In such a case, a connection sequence is created between the user apparatus **350** and the system server **335**; the system server **335** then identifies this connection as an emergency message and directs the emergency message to emergency server **345**. The emergency message includes a continuously updating medical and user ID details data package stored in the apparatus **350**.

From the emergency server **345** the user emergency message will be forwarded to the system's special controls and emergency management center **348**, this emergency center will be regularly managed by human operators for further handling and best managing the user emergency situation. The center **348** may then select and call through the emergency management network **392** the medical rescue team which is most relevant and geographically closest to the user, as well as the final destination hospital or medical treatment center and provide the emergency rescue team and the hospital with the user name and ID data, his present geographical location and all the personal and medical data files of the user that are stored in the system memory related to this user. The hospital will receive the specific user's full set of relevant health and medical related data files stored in the system memory, while the rescue team will get

only the emergency data package stored on the user's apparatus **350**. The emergency center **348** will also be able to work automatically without human intervention and will in case of no human presence at the emergency center **348**, contact the national medical emergency services phone number and read to them in a synthetic voice, for example, the content of the emergency message created and generated by the user personal apparatus **350** and in parallel will transfer the same emergency message content to the emergency messages reception section at the website of the national emergency center. In the case where the user connects to the system through his cellular phone, the invention apparatus detects if the connected cellular phone has a built in GPS unit. Since GPS is becoming a very common module in most smart phones, then the apparatus controller may read from the cell phone the local position of the user, in the emergency case, and will be able to transmit the user's present location data to the system emergency management center **348** for further notifying this information to the rescue units.

15           A possible block diagram layout configuration of the present invention apparatus and the related apparatus's user operation in using the apparatus for secured data communication and storage, in a preferred embodiment of the invention apparatus is shown in Figure 2.

20           The apparatus **100** is comprised of at least 5 different main and essential sub modules and may be also comprised of any combination of additional optional five sub modules, each module providing the associated part and special functionality features of the present invention apparatus, special features and capabilities. Apparatus **100** preferably is compact sized and is light in weight as possible, ergonomically designed to be easily held and operated by and within one palm of any potential user and easily attached to the USB or a similar data communication port of a host computer, or of a cellular phone. To support the need for reliable operation of the apparatus **100** in daily use for at least several years, it may be also designed to be highly shock and vibration resistant on the same level of durability that modern cellular phone have, yet to be water resistant and to have high temperature, industrial level, endurance capability. For special users in heavy duty applications, the apparatus may also be built in and be waterproof and will be in such cases also very durable to wide amplitude and range of vibrations and shocks, in a wide range of operational and storage conditions.

Module **110** is the apparatus host terminals, cellular phones and other accessories connection support. Module **110** may include any combination of standard USB type and/or non standard data connectors **112** extended out of the of the apparatus case, a wireless Bluetooth communication interphase **118**, a RF medium to short range communication interphase **117** and another in-room IR communication interphase **114** data communication interphases with the outer world, that will support quick and affordable non-contact communication, as well as physical connection of the invention apparatus **100** to any computer terminal, mobile phone devices, ATM and vending machines Etc. Such connectors could be USB data connectors **112** integrated in most standard PC computers and laptops and mini USB, or compatible Mini USB data connectors **116** that one could find in all modern smart-phone cellular phones models. The preferred embodiment apparatus shown in this figure has in the terminal connection unit **110** a Bluetooth wireless communication interphase circuit **118** to enable easy and quick data communication and non-contact short range connection to most market's available cellular phones, to some models of laptops and notebooks that have built-in wireless Bluetooth data communication capability and through available Bluetooth USB plug-in, token/dongle type devises, that enable contact-less data communication with all modern PC and laptop/notebook, types of host computers.

Module **120** is the module containing the apparatus authentication dedicated set of biosensors, wherein in the preferred embodiment demonstrated in this figure, the apparatus includes two biometric sensors with different optics that are based on imaging. Sensor **124** is an imaging camera based sensor that images the user specific face pattern or the user's eye iris, and generates a set of parameters that are specific to the user face pattern, or his iris structure and pattern, and are based on processing and compressing the specific user face or eye iris pattern and colors. The imaging sensor **124** may be a conventional two dimensional Black & White solid-state miniature camera, or a similar color camera, or a 3 dimensional imaging camera that is based on the integration of either two perspectives images 3-D conventional imaging components, or laser holographic imaging of the user's 3-D face pattern. Activation of camera sensor **124** is carried out by pressing camera on/off button; the user presses the button **196** whenever he needs to pass through an authentication process. The camera will operate until it grabs a good quality image of the use's face features, to enable processing of the

user's unique face structure parameters. After grabbing the user's face image the camera's power is shut-off, in order to save the apparatus's battery power. If the camera does not shut down when needed, the user can always shut the camera down by pressing again button **196**.

5           Imaging sensor **126** is one or more fingerprint sensors that image and analyze the fingerprint of one or two of the user's fingerprints. Sensor **128** is biological life sign detection and measurement dedicated electro optical sensor that through projection of a diode laser illumination on the user's holding palm internal blood vessels and the detection and processing and measurement of the back reflected light signal from these  
10 blood vessels, it measures the heart pulse rate of the user, while holding the apparatus in his palm and also measures the oxygen ( $O_2$ ) content in % in the user blood at that moment. These two sensors are based on a single electro-optical unit that projects laser or LED diodes light on the user palm and then screens and analyses the modulation of the back reflected light to calculate and monitor the amount of oxygen in user's the red  
15 blood cells and the pulsating fluctuation in his blood vessels that due to the user heart bit rate. If the user is in a stress state like the situation that he is forced to use the device by another person, then his blood pulse rate will be out of normal range and the apparatus will not enable the authentication process positive termination unless the heart bit rate will be normal again and for at least a predefined time period. The sensor **128** will be an  
20 adaptive sensor so it will measure the heart bit rate every time the user will use it and will make a smart moving average of the heart pulse rate results change in time, to act as an adaptive threshold specifically adapted to the apparatus's personal user typical or normal heart bit rate. The  $O_2$  content part of this sensor will measure the well being of the user and will stop the authentication process if there are any abrupt changes in the  
25 measures  $O_2$  %, as well as stop the authentication process if the measured  $O_2$  level is not in the normal range of 90-100% oxygen content.

Another possible embodiment of the present invention apparatus may contain alternative life parameter measurements indication by one or more sensors that can replace, or be added on top of sensor **128**, to detect the user's evidence normal or  
30 abnormal emotions, these are called Affect Sensors. They are used to detect information related to emotional, cognitive, and physical arousal of a user. These sensors are

coupled with algorithms that are specifically designed to distinguish and classify patterns associated with the user emotional states. Among this group the apparatus may include sensors that can detect physiological signals such as electrodermal activity and respiration.

5 Electrodermal activity may be measured by a skin voltage sensor, like the Biowave, developed by the company Infusion Systems Ltd. from Quebec Canada that developed a sensor that captures the skin surface voltages.

Another similar sensor is the Skin Conductance (SC) sensor Flex/Pro Sensor SA9309M that is sold by the US Company WorldWorks, Unlimited, Santa Rosa, CA  
10 95404. This sensor measures the skin's ability to conduct electricity. A tiny electrical voltage, so small it is not felt by the user, is applied through two electrodes, usually connected to two fingers of one hand, in order to establish an electric circuit where the user becomes a variable resistor. The real time variation in conductance, which is the inverse of the resistance (an alternative measure of the Galvanic Skin Response), is  
15 calculated, changes in SC reflect changes in the activity of the user sympathetic nervous system. As a user becomes more or less stressed, the skin's conductance increases or decreases proportionally. Skin conductance, galvanic skin response and electro-dermal response (EDR) are different terms for similar physiological measures. The standard measurement unit for conductance is called Siemens. Skin conductance is measured in  
20 micro-Siemens. Some biofeedback systems display skin conductance in micro-mhos.

Module **130** is a hardware and software combined module, containing the apparatus sub module **140** for carrying out the user final authentication by first digitizing and processing the output of module **120** set of sensors and then combining the measured results of the multi sensors tests output to a final “go/no-go” user’s  
25 authentication result. Positive authentication result is only achieved when positive results are derived from at least three biological parameters measuring sensors **124**, **126**, **128**, as detailed herein. This module also includes a sub-module **150** that stores a set of data files that are defined by the user as private, yet non-secured, so they may be stored in the original digital format without encryption, These data files may store the  
30 apparatus owner full name and his national ID number or National Security number, passport number, driver license number, date and country of birth, address and any additional similar information that appears in the user various cards and his picture.

This picture and also other information, such as height and eye color, for example will be sent as a highly reliable patient identification to the rescue team, in case of an accident. It may also include the apparatus owner's private main medical data, which is needed in case of an emergency, for initial medical treatment. The data may include  
5 medical data such as the user's blood type, sensitivity to medications, chronic diseases, last standard blood tests results and the user recent medical treatments data of the apparatus **100** owner, for example. It may also include, name and contact details of a selected relative/contact person to be called by the rescue/medical team in case of emergency and the contact details of his private doctor in case the user has a chronic  
10 disease, such as heart or a gastro problems.

The medical emergency team may have a special token that can be connected to the USB plug **112** in the apparatus **100** and when needed and the emergency button **192** is pressed, then that apparatus **100** stored emergency data, stored in sub module **150**, will be automatically downloaded into this emergency team special token together  
15 with the user's picture to verify that the user's apparatus belongs to this specific user. Emergency button **192** may be also pressed by the apparatus **100** user himself, in case he does not feel well, or if he is involved in an accident. Whenever emergency button **192** is pressed by the user, while holding the apparatus in his hand, the user is being authenticated by the apparatus **100** controller module **160**. At this stage the user's name,  
20 his ID data and the user emergency medical data, as stored in memory module **150**, are all sent to the invention system server and from there to the emergency control room unit **348**.

From there the emergency call will be forwarded to various medical units through a network of dedicated communication lines and the internet network  
25 infrastructure. Using the system emergency control room and the related user's emergency situation maintenance service will enable a reliable and quicker service for the user or the control room manager to help the emergency rescue team and provide first medical aid and other types of help from a spectrum of medical assistance units.

When the apparatus **100** needs to communicate with the outer world through a  
30 cellular phone **355** or a host computer terminal **360**, it first sends the command to connect the user apparatus to the Internet. Then the apparatus **100** sends to the selected service provider website, the data needed to connect the user to this specific website,

such as the specific site user's registered user name, his password and if needed also an account in case of a financial institute or member number. When connected to the service provider website, in some cases the apparatus might be requested by the service provider website manager to provide another data file that identifies the legitimate registered user specific apparatus by transferring a file containing the ID unique embedded numbers of the specific apparatus and its user ID data. If needed and requested, this additional data file may also include the user's national ID card number, and/or his national security number and/or it passport or driving license number, so that the receiving entity such as a medical institute or a bank can compare this data to a reference data stored in its memory before it starts secured personal data exchange with the apparatus and its user.

Module **160** is the central controller and data processing unit for apparatus **100**. Unit **160** is an advanced generation low power CPU processor such as the ARM. The ARM is a 32-bit reduced instruction set computer (RISC) with instruction set architecture (ISA) offered by ARM Holdings, a technology company headquartered in Cambridge, UK. The relative simplicity of ARM processors makes them suitable for low power applications and a preferred CPU solution in mobile and portable electronic devices.

Module **160** will control the operation of all the apparatus sub-modules, but also will do through sub-module **172** the encryption and the deciphering data processing work carried out by memory sub-module **172** upon storage and retrieval processes of all the highly secured user's personal data files, stored in the secured mass memory sub-module **174**. Module **160** will also make the required data processing on the output of the apparatus integrated at least 3 bio sensors, done through sub-module **140**. Module **140** will store the registered user's original, initial registration step, bio sensors measured output for reference and module **140** will also process the authentication parameters output data formatted reference file from the sensors reference output. Module **160** will create, via the authentication sub-module **140**, the authentication process and the related decision required to enable operation of the apparatus **100** only by the legitimate owner and user of said specific apparatus. Module **160** also includes sub-module **168** that acts as the emergency button **192** interphase circuits that triggers the processing of module **150** stored data, that creates and sends a user's private and

dedicated medical emergency situation data package when needed to the emergency services and rescue teams and to the system emergency center **348**.

Module **160** also includes an embedded SW sub module **162** that has the function to support the apparatus **100** automatic adaptation required to enable two way  
5 communication with all commonly used Operating Systems (OS) software packages, resident on the external host computer or on the cellular phone that the user has linked his apparatus **100** to. This automatic adaptation, by the apparatus's controller unit **160** for quick adaptation to the external CPU OS needs, is highly required in order to operate with the host or cellular phone in case of a simple apparatus data updating and  
10 management process, or to communicate with other users or systems, in most cases through the invention secured communication and personal data storage and management system **300**; required in most cases to communicate with the outer world. Such OS automatic identification, interphasing and communication SW package resident in sub-module **162**, can automatically recognize, adapt itself and communicate  
15 through data connection sub-module **110** with any host computer running on Microsoft's Windows, or Mac OS, or Unix OS, resident in such host computer, or for interphasing with the OS of a cellular phone, such as Symbian, or Android, Embedded Linux, Palm, or Blackberry OS, all commonly used in advanced cellular phones, also called smart phones. RIM

20 Operating Systems offer a number of services to application programs. Applications access these services through application programming interfaces (APIs) or system\_calls. By invoking these interfaces, the application may request a service from the Operating System, pass parameters, and receive the results of the operation. In cases where the host computer is one typical terminal **360** in a cluster of a multiple array  
25 of terminals of large system, such as Unix-like systems including [http://en.wikipedia.org/wiki/Free\\_software](http://en.wikipedia.org/wiki/Free_software) free Unix variants such as GNU/Linux and BSD, the user interface at the host side is always implemented as software that runs outside the host Operating System. In some other OS like Windows, the Window manager can be part of the operating system itself.

30 While servers generally run Unix or some Unix-like operating system, embedded system markets are split amongst several operating systems, although the Microsoft Windows line of operating systems has at this time almost 90% of the client

PC market, other such case OS can be Mac OS, or Google chrome OS, or other host type resident OS.

While the apparatus controller unit **160** can automatically detect and adapt itself to communicate and interact with all commonly available Operating Systems  
5 managing the host or cellular phone that apparatus **100** is connected to, unit **160** also can interphase with the external host computer or cellular phone device it is connected with, in a way that regardless of the type of host computer or cellular phone the apparatus **100** is connected to. The displayed screens and the apparatus **100** supported operational functions selection menus that are displayed on the host computer monitor or the  
10 cellular phone display screen may all look the same and function in the same way.

The present invention apparatus **100** holds in its controller's operational memory, a dedicated software package **164** that is capable of identifying (by the SW module **162**) the Operating System of the host computer or the cellular phone apparatus **100** to which it is connected to. Then SW package **164** automatically converts all the  
15 prepared and stored interaction screens and menus of the apparatus **100**, to fit the host computer or cellular phone detected operating system and the dedicated SW package **164** automatically makes the corrections and required adaptations in the apparatus **100** to host or Cellular phone interphasing SW modules, so that the displayed screens and menus on the host or cellular phone screens, will always look the same to the user while  
20 viewing the host computer or the cellular phone screens, regardless to the specific host or cellular phone type and model the apparatus **100** is connected to by the user.

Mass memory secured data module **170** includes the encryption SW and hardware sub-modules **172** that will encrypt and compress the user's highly sensitive private and personal medical and financial data files, as well as carrying out the counter  
25 operations of decompression and deciphering of the sub-module stored secured personal data when needed.

In order to ensure that the encryption process will be highly immune to potential hackers trials to break the encryption code and read the personal highly secured data of the apparatus **100** user, the encryption keys required to encrypt and  
30 decipher the secured data in sub-module **174** will be stored in a separate special memory partition located in the other memory module **150** under a secured memory storage structure and in a way that it will be very hard for the hacker to allocate them and use

them when he might try to break the encryption codes of the data stored in the secured data memory sub-module **174**. Sub-module **150** is part of the memory and authentication larger module **130**.

5 The apparatus user sub-module **174** is a very large data storage medium based on solid state memory chips, preferably but not exclusively of Flash memory type. An alternative solution for the sub-module **174** may be a new generation of erasable multiple-use memory device which is the Nano-RAM. The Nano-RAM is a proprietary computer memory technology from the company Nantero. It is a type of nonvolatile random access memory based on the mechanical position of carbon nanotubes deposited  
10 on a chip-like substrate. In theory the small size of the nanotubes allows for very high density memories. Nantero also refers to it as NRAM in short.

Typical storage space required in sub-module **174** will be in the range of 16-256 Gigabyte data storage capacity and may be better configured with advanced memory components, such as NRAMs, to have data storage capacity of up to several  
15 hundred Gigabytes and in specific users requirements can be upgraded to up to several Terabytes of compressed data storage capacity, while still maintaining a very compact and minimal physical volume, as required for a compact size hand held device, such as apparatus **100**.

Sub-module **190** is a RFID receiver and transmitter unit that enables remote  
20 identification of the apparatus and its user by other systems which have integrated RFID units. Sub-module **190** may support the use of apparatus **100** as an electronic contactless key, to enable safe, secured and easy access through secured entrance gates and doors and in other cases also enables, by pressing the RFID button **197**, the use of apparatus **100** for safely and remotely opening and locking private homes and offices  
25 keyless RF operated door locks and cars.

Sub-module **198** is a RF Transceiver unit that can receive encoded RF commands from a remotely located apparatus's dedicated charger and data backup unit **1000** described in figure 9. Unit **1000** is usually located at a short to medium distance from the apparatus **100**. Sub-module **198**, once triggered by a coded RF signal coming  
30 from the charger and data backup unit **1000**, will operate an electronic sound buzzer circuit **166**, located in the controller module **160**, to enable quick and easy finding and allocation of the apparatus **100** by the apparatus's personal user.

Units **115** and **113** together, may create the combined electrical power source and multiple voltage electronic power supply sub module of the apparatus **100**. Unit **115** may be lithium, NiCd, or other dry cell rechargeable battery situated in a battery housing that can be opened to change the battery if needed. Unit **115** may also  
5 connected to the terminal **110** through which the battery **115** recharges when the connector integrated in module **110** is plugged for charging and memory backup into the dedicated device **1000**. Power supply unit **113** may provide all the required voltages to the electronic module **160** and the memory modules **130** and **170**; also it may provide the voltages required to the sensors unit **120** and to the RF transceiver and RF ID units  
10 **198** and **190**. Apparatus's main on/off switch **199** controls the on/off status of the power supply unit **113** operation and though it the on/off operational status of the entire apparatus **100**.

Apparatus **100** may include, in another preferred embodiment, an optional additional GPS module **180** that connects to the controller module **160** through its data  
15 bus sub-module **182**, wherein the GPS optional module **180** will enable apparatus **100** to accurately measure and calculate the momentary precise geographical position of the apparatus and its user and in case of emergency, when the user will press on the emergency button **192**, or alternatively when the apparatus integrated bio sensors module **120** detects an emergency case based on a medical abnormality state of said  
20 apparatus user, such as if the user's pulse rate as well as his blood oxygen saturation level are both far out of normal range and while the user holds the apparatus in his palm and the apparatus **100** is connected and communicating with the system **300** though the user's cellular phone, or connected to any host computer that is connected to the internet network. In this case, the emergency updating data package stored in a dedicated  
25 processing and storage sub-module **150** managed by controller module **160**, will be transferred to the system **server 345**. From there, the emergency case data will be forwarded to the system's special control and emergency management center **348** for further handling of the user emergency situation notification and then the emergency management center **348** will select and call through the emergency management  
30 network **392** to the most relevant and closest to the user medical rescue team and provide the team with the user name and ID data, his present geographical location and

all the personal and medical data file of the user that is stored in the system memory related to this user .

In case the system **300** does not respond, then the apparatus's controller **160** will automatically dial through the connected cellular phone, and get connected with the national medical emergency call center number and, in a synthetic voice generated by the controller **160** special synthetic voice circuit, will indicate the geographical position and the emergency situation stored medical data package of the specific user. Alternatively, or in parallel, in case that the apparatus **100** can be connected to the internet network by the user through a host computer, or through a smart cellular phone, the apparatus will then connect through the host or phone to the website of the national medical emergency services and will send to this website an emergency case notification and a data file including the user name and ID data and all the personal and medical data file of the user that is stored in the non encrypted and open to access memory sub-module **150** of the user apparatus **100**.

It should be noted that for allocating the apparatus and its user, in case of an emergency medical situation of the user, the user location can be alternatively calculated and transmitted to the user apparatus **100** by the cellular service provider in case the user is connecting his apparatus **100** to a cellular phone **355**. These cellular phone allocation services are offered today by most cellular services providing companies. Such a connection was previously explained in the section covering system **300** structures and operational method. Therefore the GPS sub module **180** in apparatus **100** is optional in cases of a need to get more precise user's geographical allocation data and might be integrated into apparatus **100** only for users who want a better positional accuracy indication to the rescue and medical teams, in case of emergency to the apparatus **100** user.

Apparatus **100** may include in its modular structure two additional optional modules as well as the GPS optional module **180**. One additional optional module **185** may be a display and touch screen optional module **185** that enables a user using the apparatus **100** to communicate with the remote system **300** and to get access and communicate through menus and data typing through the internet with external services providers without the need for the user to have an external cellular phone or to connect to a host computer. Touch screen module **185** will communicate with the apparatus's

controller module **160** through bus **182** and interphase sub-module **169**. An optional third module **195** is a cellular modem acting as the apparatus data communication module that when connected to the apparatus's computer controller module **160** through data bus **182** and the interphase sub-module **169**, it will support the full scale operation and the execution of all the apparatus **100** functions without the need for connection to an external host computer or to connect the apparatus to a cellular phone. Integration of optional modules **195** and **185** might have some drawbacks such as the need to have an apparatus **100** in a much larger size, it will have more power consumption and shorter battery charging life cycle, it will have higher price and operational costs as it functions as a cellular phone and needs to be registered at a cellular company and what is more important is that it will have very limited user interaction functionality due to the small size of the apparatus display and visual keyboard.

Another embodiment of the present invention apparatus, demonstrating one preferred embodiment of the invention apparatus, related to the apparatus physical structure, design and look, demonstrating also its related I/O interphases and its multiple sensors integration preferred solutions as integrated in the apparatus **100** specific embodiment design and structure, are shown in Figures **3A** and **3B**.

Apparatus front view **200** as appears in figure **3A**, shows the front side view of a preferred embodiment and apparatus view **200A** shows the rear side view of the same embodiment of apparatus **100**.

Element **210** in the apparatus **100**, as seen on the front view **200**, is an extending magnetic card thin profile element, that enables interphasing the apparatus **100** with magnetic cards readers/writers such as those one can find in any shop, or gas stations or ATM machines. Magnetic card element **210** is designed to be normally concealed within the apparatus **100** case and can be extended out of the housing by the user for easy interphasing to and interaction with any magnetic card reader and then exchanging data and further enabling the execution of a transaction through any ATM machine or any purchasing point magnetic card reader. The extension of the magnetic card element out of the apparatus **100** case can be carried out by the user fully pulling out and extending this element **210**, only if first it is enabled by the apparatus controller **160** in figure **2**, by releasing in apparatus **100** an internal electronically operated safely locking pin, situated inside the apparatus **100** housing. The safety pin is released by

controller **160** in figure 2, only when the original apparatus **100** owner and user is actually holding the apparatus in his hands, and only after the user has been recognized and positively authenticated by the apparatus controller **160** while comparing the measured bio sensed set of parameters of the apparatus present holder, to the set of parameters, stored in the apparatus's authentication memory sub-module **140** in figure 2  
5 for the relevant bio sensed parameters of the apparatus **100** legitimate user and owner.

Each of the two elements **260** and **265** represents the dual selectable, user's personal bio ID sensor units, comprising the group of sensors including but not exclusively, an imaging sensor, a fingerprint scanning and analysis sensor, a user iris  
10 reader sensor, and a 3D holographic or laser scanning imaging sensor. In the preferred embodiment shown in apparatus **100** front view **200**, the aperture **260** belongs to a camera that takes high quality still pictures of the users face and then process it to set of parameters that have very high reliability in exclusively characterizing the user by a set of personal ID characterizing parameters that are related to the user face structure and  
15 the measured distances between his main face elements. Element **262** is the ON activation button of the sensor **260**, to save apparatus **100** battery power consumption, the sensor **260** deactivates itself whenever it has accomplished a satisfactory result of grabbing the face image of the user.

The aperture **265** in the described apparatus front view **200** embodiment  
20 belongs to an electro-optical sensor that takes high quality images of the user's eye iris and its specific patterns and colors, and then processes it to set of parameters that have very high reliability in characterizing the user related to the specific user's eye iris structure and colors.

Element **220** in the apparatus **100**, as seen in front view **200** is an extendable  
25 or fixed USB connector or any similar industrial level available data access connector that can be used when the user wants to connect the apparatus **100** to his host PC computer or to connect to any multi-user computerized server based system, using a computer terminal that has data interphasing capability with a data connector of any kind integrated into the computer terminal. Element **295** in the apparatus's front view  
30 **200**, is a fixed or an extendable mini USB data transfer connector or any other industry data mini size connector equivalent, that is integrated into all modern cellular phones, a

connector that can be used when the apparatus **100** user wants to connect to the outer world through his cellular phone.

Element **262** is the on/off switch of the camera **260** unit. Element **280** in this preferred embodiment of apparatus **100**, is a third biosensor unit that executes a fingerprint scanning and analysis of the user's thumb finger if he is right handed and naturally holding the apparatus **100** in his left palm.

Element **270** in this preferred embodiment of apparatus **100**, is a forth optional biosensor unit that executes a second fingerprint scanning and analysis of the user's left hand middle finger, if he is right handed and naturally holding the apparatus **100** in his left palm.

Element **254** is an optional back lighted LCD display and touch screen unit, that can be integrated to the apparatus **100** for users that do not own a smart phone and do not have easy access to a host computer and they need to interact with the apparatus **100** controller and review the menu screens and communicate with the system **300** servers as well. In such a user demand, the apparatus **100** optional configuration should support and be supplied with the optional cellular modem **195** (in figure 2) that enables the apparatus **100** to function also as a simple cellular phone, while dialing out and interaction with the apparatus will be carried out by the touch screen functional capabilities which are a part of this display unit option **254** for apparatus **100** (external view **200**).

Element **290** in front view **200** of this apparatus **100** preferred embodiment is a general on/off switch of the apparatus **100** which has an integrated ON status indication red light emitting LED.

Element **240** are press button functions for the apparatus **100** integrated RF sub-module communication and RFID activation switch, for remotely operating and securing operations such as contact-less access to secured sites, communication with advanced contact-less ATM machines, smart cards readers and RFID operated door locks and car doors and/or ignition switches.

Emergency button **215**, is used for pressing by the user in case of emergency, in such a case apparatus **100** is connected and communicating with the system **300** if the

user is connecting his apparatus **100** to his cellular phone, or if he connects his apparatus **100** to any host computer that is connected to the internet network.

Apparatus **100** back view **200A** shows the rear side view of the same preferred embodiment of the apparatus **100** shown front view **200**.

5           Element **250** in view **200A** is the sensing aperture of the life signs detection biosensor to sense and indicate the real-time operation of the invention apparatus **100** by a living and healthy human operator. This sensing function is carried out by a dedicated sensor or combined set of sensors, which may be selected of a list of possible life signs indication bio-sensors and will be one or more possible bio-sensors selected from the  
10   group containing at least a body temperature measurement sensor, a body pulse rate measurement sensor, a body O<sub>2</sub> saturation level sensor, an electrodermal activity sensor and a respiration sensor. The preferred embodiment shown in apparatus **100** view **200A** behind aperture **250** may have a dedicated integrated life signs measurement sensor module, made of such combined and integrated two life signs indication dual channel  
15   electro-optical sensor, that measures and performs simultaneously both human body pulse rate in one channel and blood O<sub>2</sub> saturation level in the other channel , which is offered by the company SPO Medical Equipment Ltd., of Kfar Saba, Israel ([www.SPOmedical.com](http://www.SPOmedical.com))

Element **297** of view **200A** is the external opening lead and cover of the  
20   rechargeable battery housing of the apparatus **100**. The rechargeable battery in the housing can be replaced or checked by removing the cover lead **297**.

While the invention apparatus has been described with respect to a limited number of embodiments, it should be appreciated that many variations, modifications and other applications of the invention apparatus may be made.

25           One possible flow-chart of the sequence of steps and related process, generally designated **400**, needed for the use of the invention apparatus while interfacing to a host personal computer, or to a cellular phone, for activation of various operations between the cellular phone/host computer and the apparatus, while using the cellular phone display and keyboard operational functions, or the host PC monitor and  
30   keyboard, for the user's interaction with the invention apparatus, is shown in Figure **4**.

Stage **401** connects the apparatus **100** to the cellular phone mini USB or compatible connector or connecting apparatus **100** regular USB to a personal computer and then the user is switching on the apparatus **100**.

5 Stage **402**: checks whether the user is properly holding the apparatus **100** in his palm to enable reliable and accurate sensing of the apparatus integrated set of sensors.

10 In stage **403**, the user is starting executing the apparatus **100** user's authentication sequence through the execution of the holding user biometric required parameters testing process, which is based on the measurement and processing of at least three biometric parameters (as described herein in one preferred embodiment). As will be appreciated by persons knowledgeable in the art, in another embodiment, fewer biometric parameters, such as at least two parameters, may be processed. In executing a biometric testing process: First tested parameter is a life sign indication sensor output either his pulse rate that should be normal in a predefined normal non active state range, 15 say 50-80 PPM, or his O<sub>2</sub> saturation level that should be in the normal range of 90-100%, or both should be normal, or his body temperature that should be in a normal range of 36-41 degrees centigrade. Second tested parameter is to measure and evaluate the first one of the user's two biometric measured parameters, such as one or two of his fingers fingerprints, and/or the apparatus holding user face pattern set of measured 20 parameters and/or the user measured and analyzed iris pattern. Third tested parameter is to measure and evaluated the user second measured biometric parameter, such as one or two of the user fingerprints, and/or the apparatus holding user face pattern set of measured personal parameters, and/or the user's detected eye iris pattern.

25 In Stage **404**, the at least three presently measured parameters are authenticated when compared and analyzed by the apparatus **100** internal controller and data processing unit **160**. The at least three presently measured parameters are compared to the previously measured, analyzed and stored identical at least three parameters of the same apparatus owner stored in memory unit **140**, Upon authentication a positive response is created by the apparatus **100** and it continues to 30 stage **406**.

If the authentication process fails, then the apparatus **100** controller unit **160** shifts the apparatus **100** to stage **405**, wherein the apparatus shuts itself off and blocks the apparatus from further use or operation for a predefined time duration.

5 In stage **406**, the apparatus unit **160** sends to the cellular phone or to the host it is connected to through interphasing unit **110**, a request to identify the operating system on which the phone or host unit is running on.

In stage **407**, if the unit **160** gets a positive response of identifying a known operating system that is in the apparatus memory bank then it initiates the operation of the related stored operating system dedicated communication interphasing SW package and it continues to stage **408**,  
10

Otherwise it goes back to stage **405** wherein the apparatus **100** controller unit **160** is shutting-off the apparatus and blocks the apparatus from further use or operation for a predefined time duration.

15 In stage **408**, the apparatus initiates a main menu screen, displayed on the cellular phone or host PC screen enabling the user to select between four options:

A: **410** - retrieving stored data from the apparatus's memory going to stage **411**;

B: **420** - saving a file from the host or the cellular phone memory into the apparatus memory **150** or **190** , going to stage **421**;

20 C: **445** - searching in the internet for a website of a selected medical institute, or financial institute, or other, going to stage **430**; and

D: **450** - by selecting in the menu to go to stage **451**, it is exposing to the user a frame that enables the user to select, retrieve or update data and information from and into the apparatus **100** stored data that creates for the user a handy organizer function, including the user's various types of needed to be easily accessible personal stored data, that includes a personal tabular data-base of all the user's set of his registered member data for his frequently visited websites **452** and official certificate cards **454** and point of sale service providers **456**.  
25

Stage **452** provides the user with the user's ID numbers, User names and password codes for all his favorite websites that require registration and personal organizer, as well as the user's personal phone book and important memos

Another option which may be selected is **456** in this menu. It is implemented in case of a user using the apparatus for purchasing at a store; the user can show the merchant his apparatus's stored face picture, so the merchant can compare it to the user face that he observes in real time before approving and finalizing a transaction with the user. Option **454** is all the official cards (certificate) a man need like passport, driving license and so on.

The process may be terminated by selecting and shifting to final stage **999**.

In stage **411**, the user is exposed to a new screen of the cellular or the PC host display with options to select from: A) selecting **412** for medical data; B) selecting **415** for financial data; and C) selecting **416** for other personal data.

In stage **412**, the apparatus initiates a menu displayed on the cellular phone or host screen, wherein the user can select from the options:

A) injured/checked body part, B) ID code of the requested medical doctor, C) required HMO (medical insurer) and D) Required hospital, then moving to stage **413**.

In stage **413**, the apparatus initiates internal memory search for retrieval and display of the relevant data stored in its memory units **150** and **170**.

In stage **414**, the apparatus supports operating usable applications enabling the user to compare stored medical/financial/other data from various periods/dates and data sources;

In stage **418**, the operational sequence take the apparatus back to stage **408** where the user can select a new option

In stage **415**, the user can select from the related hierarchical composite screens by using typical keywords for feeding in, or retrieving the user personal DB stored data retrieval, from the 5 or more keywords search options: A) Bank B) Insurance company/financial institute, C) Date, D) Credit/Debit transaction deal, E) Type of expenditure/income counter account for the transaction, then the sequence moves back to stage **413** to retrieve from the database.

In stage **416**, the user gets a menu screen to select a subject to retrieve stored data from the subjects used as search keywords.

In stage **417**, the user select keys to retrieve the data refers to the subject he has chosen in stage **416**, than - goes to stage **413**.

5           Stage **421**refers to saving new data logically emerging from stage **408** main menu, a screen appears on the display of the host or the cellular phone, requesting keywords for data storage – file subject and date are the main keywords and the user can select up to 5 additional data storage keys, suggested from a readymade list, said list is different for each subject like described in stages **411** and **415**.

10           In stage **422**, the apparatus controller adds one digit to the last processed user's personal data base record number and this number will be the record number to the newly saved record in the apparatus memory.

In stage **423**, the controller creates an encrypting code for each newly processed Record and saves it into the apparatus **100** secured mass storage module **170**.

15           In stage **424**, the apparatus **100** controller **160** shifts the user screen back to stage **408** menu selection screen.

In stage **445**, the user selects the menu option of getting access to the Internet.

In stage **430**, the user sees on the host or cellular phone screen a list of preferred favorite sites which have in the personal secured data of the apparatus's  
20   personal user. In stage **431**, if the user clicks on any one of them then the controller moves to stage **432**, or if the user clicks in an open data feeding field new website address, then the controller **160** moves the sequence to stage **435**.

In stage **432**, the controller **160** detects the URL (internet address) of a user selected preferred favorite website and then the controller feeds in from the memory **150**  
25   the stored specific site predefined user name and password into the selected page user ID data feed spaces to enable the user to get easy and automatic access to any such selected favorite website as a registered and access authorized member.

In stage **433**, the host or the cell phone automatically moves to display the first registered user's website entrance screen at the selected website address, to display  
30   the selected site registered members home page and to enable the user to further interact

with the selected website and associated personal data he may wish to find there, like his personal medical tests results, prescriptions and bank statements.

In stage **434**, a screen appears requesting the user to either save his personal data he got from the website he has visited going back to stage **421** how to save this day  
5 and under what search keys, alternatively the user can go back to stage **408** where he can choose another apparatus operation optional activity from the main menu.

In stage **435**, the user gets an internet screen and he types a new address as he likes and gets his wanted information. In stage **436** the controller generates a two options selection screen one is to save the retrieved personal results in the Device **100**  
10 memory then it goes to stage **434**, otherwise it suggests the user to purchase a service or a product than it goes to stage **437**.

In stage **437**, the user is asked if he wants to use the details of the credit card from the apparatus

Stage **438** requests the user to define the kind of credit card the user wants to  
15 execute, and the selected purchase transaction, after selecting the preferred user credit card for this transaction, the controller takes from the apparatus's secured memory **170** the file containing the user's credit card number, the user name, card expiration date and the other card secret code number and sends this data to the vendor (stage **439**).

In stage **440**, the transaction is then approved.

In stage **441**, a screen appears questioning the user if to save the transaction  
20 details and then go to **421** and if not the user may be transferred and select another activity option from the main menu screen **408**.

Stage **999** takes the user out of the apparatus to host operational process and disconnects all communication between the apparatus **100** and the host computer or the  
25 cellular phone.

A possible flowchart of the process steps, generally designated **500**, associated with the use of the invention apparatus while a user is establishing a connection with the invention system and applying the invention apparatus to be authenticated and get access to the system servers, is shown in Fig. **5**. The described  
30 process **500** in this flowchart is starting from the user authentication stage up to the

stage of getting an approved access to the system servers' data and for the user further interaction with the system to fulfill specific data search and updating tasks, is shown in Figure 5.

5        Stage **501**, connects the user's apparatus **100** to his cellular phone mini USB or a compatible connector, or connecting the apparatus USB connector to a USB slot in a personal computer, or establishing a Bluetooth wireless data connection between the apparatus and the user's cellular phone, when the user switches on the apparatus **100**.

10        In stage **502**, the user holds the apparatus **100** in his palm, pressing his fingers to the fingerprint sensors **270** and **280** as seen in figure 3A, looking into the apparatus camera aperture **260** and/or focusing his line of site to the center of the iris imaging sensor aperture **265**. In parallel, on the other side of the apparatus, the user is attaching his palm to the physiological sensor aperture **250** which senses' the user's heart bit rate and his blood oxygen saturation level sensing his blood then pressing the on/off button **290** that starts the authentication process .

15        In stage **503**, the apparatus then executes a biometric sensing and testing sequence of the holding user three biometric parameters. One is a life sign indication sensor (**128**) output, either his pulse rate that should be normal in a predefined normal non active state range, say 50-80 PPM, or his O<sub>2</sub> saturation level that should be in the normal range of 90-100%, or his body temperature that should be in a normal range of  
20    36-41 degrees centigrade. The other two measured and evaluated parameters are the user's one or two of his fingerprints, and/or grabbing and processing the holding user face pattern set of measured parameters, and/or the user eye iris image grabbing and then analyzing the iris image structure and pattern.

25        Stage **504**, is a junction point for options evaluation and decision stage. If the user's measured and processed set of bio parameters fits to the apparatus's original user's first registration stored set of bio parameters in unit **140**, then the process continues to stage **506**, otherwise the process stops at stage **505**.

30        In stage **505**, the user receives a text message on the connected cellular phone or host computer screen that the authentication process failed and the apparatus then shuts off and the user needs to restart and repeat the same process till that stage.

In stage **506**, the apparatus controller checks the results of the user's now measured life indication sensor output and if the measured parameters are different in more that 15% than the user's moving average results of previous life indication tests, then it goes to stage **524** if the difference is less than 15% then it continues to stage **507**.

5 In stage **507**, the user gets a menu screen on the host or cellular phone display that enables him to choose either to be connected with the invention system for further interaction in stage **508**, or to continue working only on interactions with his host computer or smart phone, in stage **408** as described in process **400** above.

10 In stage **508**, if the user is a new user that it is his first interaction with the invention system, then he has to pass a testing and verification procedure to verify that he is the legitimate owner of the specific apparatus having the apparatus's registered product embedded serial number and therefore the process continues to phase **522** which requires the user to visit in person a service station of the invention system and identity himself in person as well as his personal apparatus in front of an employee of the  
15 system, a procedure which will be done in stage **509**. If the user is not a first time system entry user, then the process goes to stage **530**.

In stage **509**, the user identifies himself in front of the system employee by showing his national ID card and at least one additional ID document such as a passport or a driving license, for example, then the invention system employee reads the  
20 embedded serial number of the apparatus by connecting the apparatus to the system computer terminal and then this number is automatically fed into the system memory to the same temporary file where the employee will manually feed the user's set of ID data including his national ID number, nationality, full name, date of birth and his residence address.

25 In stage **510**, the invention system registers the user as a new customer and opens a dedicated new customer basic data file in the system memory and allocating for that user data file a predefined dedicated and private memory space in the non secured section of the system memory. The system manager registers each user and stores the personal ID data file of each user in a memory sub-system connected to the system. The  
30 registration further includes an additional step wherein the system manager generates for each user N pairs of two different randomly selected alphanumeric characters strings; each of said strings is combined of n alphanumeric characters in length.

The system manager stores the N pairs in the system memory sub-system and also sends the n characters strings N pairs to be stored in the user personal apparatus. In stage **511**, the apparatus, while still connected to the system computer terminal, generates a random alphanumeric data string with L characters that will serve as the  
5 unique user secret access code to his secured private memory partition in the system memory.

In stage **512**, the processed L characters string is fed to the invention system and is checked by the system computer if the processed L characters string has not already been processed and fed to the system memory in the past by another registered  
10 user's apparatus. If the system computer finds in its records an identical memory ID data string of another already registered user then it goes back to stage **511** and then the apparatus generates a new randomly selected string of L alphanumeric characters. If the system could not find in its records an identical memory ID data string already dedicated to and serving another registered user, then this string is selected to be the new secret  
15 access code for the newly registered user.

In stage **513**, the system computer creates for the newly registered user a secured private memory space in the system mass memory that it will be defined and will be further allocated for this user and could be accessed only by using the specific user secret access code with L characters data string, which is stored only in the user's  
20 own apparatus.

In stage **514**, the user and the system employee receives a written displayed message from the system computer saying that the new user registration has ended successfully and the user can from now on work with and interact with the invention system from any remote location while using his registered personal apparatus for  
25 identification and authentication. The user and his apparatus when connected to any cell phone or host computer can now be transferred to work in stage **515**.

In stage **530**, and upon normal initiation of communication between the system manager and each user, the system manager may further communicate with the user and first compare the user's ID data file and his personal apparatus unique  
30 embedded characterizing serial number, as stored in the user's personal apparatus, with the corresponding user's and apparatus's identification data stored in the system memory module. If the two sets of identification data match, then the system manager sends a

first string of the stored N strings of coded alphanumeric data to the user's apparatus and the user's apparatus responds with the second matching string from the same stored pair of coded alphanumeric data uniquely associated with the user's apparatus and the system manager compares the received second string of coded alphanumeric data with a second string of coded alphanumeric data pre-stored in the system's memory. Then the system manager compares for consecutive M out of N times the received additional different strings of coded alphanumeric data pre-stored in the memory of the user's apparatus that is associated with the unique user, with the additional strings of coded alphanumeric data pre-stored in the memory of the system.

In stage **531**, if all M strings of coded alphanumeric data match, then the system manager authenticates the user and permits the user access to the system and the process goes to stage **515**. Otherwise, the system goes to stage **505** which ends the session.

In stage **515**, the user is already a system registered user and can be connected to the system after a short identification and authentication sequence, as detailed herein. In this stage, the user selects from the main menu displayed to him on his host screen; he can choose the option to work and interact with the system and can choose between several interaction options. If the user chooses to work in the unsecured part of the system-stored data, the user chooses the menu option that transfers him to stage **520**. If the user chooses to work in the user's secured and protected part of the system stored data, then he chooses the menu option that transfers him to stage **516**. If the user chooses to work and interact through the systems on his financial and insurance issues, the user can do it through the system and can get safe and secured access to all his relevant banking services, insurance companies, investment houses, pension funds, etc. All the relevant data is being easily accessed and managed by the system through a dedicated menu screen, the user chooses the menu option that takes him to stage **518**. If the user chooses to work and interact through the systems on his medical issues and through the system to get access to all his relevant medical services, hospitals, and clinics data, all managed by the system through a dedicated menu, the user chooses the menu option that takes him to stage **720**. If he wants to end the interaction with the system, the user chooses option **999** that closes the communication with the system,

In stage **516**, the user's apparatus sends, via the host or cellular phone that is connected to, the system, secured access code which is the memory ID data string created in stage **512**.

5 In stage **517**, if the string is recognized as a legitimate string associated with the user, the processes continues to **801**, otherwise it shifts the user to stage **515** and shows him again the main menu with several choice options.

10 In stage **518**, the system checks at the background all the time if the user has pressed on the emergency button, or alternatively in stage **524** if the physiologic sensor detects abnormality in the user physical condition and it sends an alarm that the user is not in a normal health condition. If an emergency is indicated, then the system goes to stage **525**, otherwise it continues to stage **650** for processing financial oriented activities. The system continuously checks that the user is connected to the financial section of its services, if the user has pressed the emergency button of his apparatus, or alternatively  
15 in stage **524** if the physiologic sensor detects abnormality in the user physical condition and it sends an alarm that the user is not in a normal health condition, and if yes the system goes to stage **525** and the user's interaction with the system supported financial services section, stops.

20 In stage **520**, the user (after the stage of requesting interaction with non secured data and the user's apparatus) is requested by the system to transfer to the system the ID data of the user and the apparatus embedded serial number from the apparatus memory.

25 In stage **521**, the system checks if the numbers and data stored in its memory are matching those received from the linked user's apparatus and if positive it continues to stage **545** for further interaction with the system and external services providers and if not it goes to stage **522** for a second authentication stage.

30 In stage **522**, a second human operator based authentication sequence is undertaken with the user at the system clients security center, to check if the apparatus belongs to the user that holds it, this process is carried out every time the system does not authenticate the user during any of the user's access checking stages, as detailed in stages **516** and **517** and/or in **520** and **521**. The employee at the system security center checks if the legitimate apparatus user face picture stored in the apparatus memory

matches the face of the user that came to the office; the system employee also asks the user to operate an authorization process with the apparatus he claims is his, in front of the system employee. If that second human supervised authentication process results are negative then it starts a security investigation with that user.

5           Stage **525** is related to an emergency case message received at the system's special control and emergency management center **348**. The center **348** team automatically receives, from the user's apparatus through the communication lines, the entire user's ID data stored in the user's apparatus including his national ID number and his medical insurance number and the name of the medical insurance company is  
10 registered in. In addition, the center **348** team receives the data on the user's emergency contact person as stored in his apparatus memory

In stage **526**, the emergency center team may contact this person via his cell phone and also contact and request the user's emergency case contact persons to get to this person detected location, as soon as possible.

15           In stage **527**, if the emergency center is calling and the user is answering his phone and requesting for medical or other type of immediate help, then the process goes to stage **528**. Otherwise, the user may get access to his most updated medical records stored in the system memory, in a process undertaken in stage **720** and then the user may download them to his apparatus through the host computer or cell phone, before he  
20 goes by himself to get medical assistance.

In stage **528**, the emergency center team are calling the user location rescue team nearest to the user and giving them by phone the user's exact location and a briefing on the user's medical emergency case records, as stored in his personal apparatus. In parallel, the emergency center team updates all the medical records of this  
25 user, stored in the system memory and prepares a full medical file report on this user, which is transferred electronically or by fax to the emergency room team in the selected hospital- to which the rescue team are intending to take the user to, for further treatment.

In Stage **545**, the user is connected to a menu that supports all the user's needs to deal with and interact with non-secured personal data and connection related with the  
30 user interaction needs with government and municipalities institutes, universities, customers' clubs, for example.

In Stage **650**, the user is connected to a menu that supports all the user's needs to deal with and interact with secured personal data related with the user interaction needs with banks, other financial institutes, insurance companies, etc.

5 In Stage **720**, the user is connected to a menu that supports all the user's needs to deal with and interact with secured personal data related with the user's interaction needs with hospitals,

In stage **801**, the user receives on his host display the menu related to storage and retrieval of his secured personal data to and from his personal apparatus.

10 In stage **999**, the user interaction with the system ends, or the user may choose to be transferred back to the interaction with the system main menu, which is represented by stage **515**.

Another possible flowchart of the process steps, generally designated **600**, associated with the use of the invention apparatus and the user interaction with the invention system done **after** the stage wherein the user is positively authenticated and obtains an approved access to the invention system and then establishes a connection with the invention system. The described process **600** in this flowchart is starting from the stage when the user is obtains a secured access through the system to various kinds of banks, credit card companies and financial institutes, as needed to fulfill specific related data searches and for records updating and executing financial transactions the process starts when the user has reached the first stage and start of process **600** in the invention system user's access creation process, is described in figure 6.

20 In the first stage **650** of process **600**, the user receives a menu screen enabling him to choose a credit card company shifting to stage **664**, a bank company shifting to stage **651**, or to an insurance company shifting to stage **671**. If the user dose not wants to proceed in any of these routes, he can choose to go back to the previously described stage **515** in figure 5.

In stage **651**, the user has chosen the bank selection option and obtains a list of the system registered banks menu, to select the bank he is interested in, or that he has an account in it.

30 In stage **652**, the invention system is connecting through a highly secured communication line with the user's selected bank and the specific branch he works with.

In stage **653**, the user's apparatus is sending to the selected bank and branch the user's bank account and the user's ID data (e.g. username and password) in the format requested by the specific chosen bank.

5 In stage **654**, the bank computer is allocating in its memory the specific user registered bank access permit data details and the account status and compares them with the user's related details derived from the user's apparatus memory, if the details are matching and the requested bank account is found in the bank records, then the process goes to stage **655**; if not the user goes back to stage **650**.

10 In stage **655**, the user receives a menu to choose from, retrieving details from his account or executing financial transactions. If the user wants to execute financial transactions in his account it goes to stage **656**. If the user wants to retrieve the details of a past transaction he will choose and be transferred to stage **660**.

15 In stage **656**, the user chooses between charging his electronic purse section in his apparatus secured memory sub-module with money, by continuing to stage **658**, or choosing a money transfer operation to a third party account by going to stage **657**.

In stage **657**, the screen of the host, through which the user is securely interacting with the bank's computer through the invention system, requests the user to fill in the empty fields on the screen the name of the third party, his account number and his bank and branch details.

20 In stage **658**, the host screen requests the user to enter into the empty field in the screen the amount to be transferred.

In stage **659**, if the transaction is approved by the bank, it goes to stage **662**; if not the process goes back to stage **655**.

25 In stage **660**, a screen on the host display requests the user to enter the parameters of the financial details he wants to retrieve, regarding the time range of transaction dates or transaction numbers.

30 In stage **661**, the bank retrieves the requested financial data, sends it in a highly secured way via a dedicated communication channel to the invention system, and through the system the relevant user's financial data is then transferred and displayed on the user's host computer screen.

In stage **662**, the user receives a screen on his host asking him to choose how he wants to store the requested financial data. He can choose between storing it in his apparatus memory, or in his personal data memory sector at the system data bank, or in both memories in parallel.

5 In stage **663**, the process goes back to stage **801** as described in figure **8**.

In stage **664**, the user receives a menu screen to choose from a list of credit card companies or to go back to stage **650**.

In stage **665**, the invention system connects to the selected credit card company.

10 In stage **666**, the user's apparatus sends the credit card company via the system in a secured format, as agreed with the specific credit card company, the user's credit card number and the additional credit card data associated with the user name.

In stage **667**, the credit card company may approve the card and the process continues to **668**, otherwise the process returns to stage **664**.

15 In stage **668**, a screen on the host display requests the user to fill in the details of the entity that should get the funds and the amount of money to credit the selected entity.

In stage **669**, the user enters the details of the entity to be credited and if he knows only part of the required details then the user is automatically offered a suggestion by his apparatus on the selected entity full set of details, if he did with the selected entity any previous deal in the past. The selected details are then sent through the system to the credit card company. If the transaction is approved, then the process continues to **670**, otherwise it goes back to the beginning of the interaction with the credit card company stage **664**.

25 In stage **670**, the credit card company approves the transaction and continues to stage **671**; otherwise if the transaction is rejected, the process goes back to stage **664**.

In stage **671**, the credit card company executes the requested transaction and sends, via the invention system to the user's apparatus, a deal approval detailed note.

30 In stage **672**, the user gets a screen asking him if he wants to process another transaction through any credit card company. If yes, the process returns him to stage

**664**; if not the process goes back stage **662** to keep the transaction in the selected memory choice.

In stage **673**, the user receives a menu screen to choose from a list of insurance companies that are approved by the system supervisor and registered at the system server, or alternatively to go back to stage **650**.

In stage **674**, the system server is contacting and creating direct access to the user's selected insurance company server.

In stage **676**, the user's apparatus sends, via the system to the insurance company server, the user ID data plus his registered user name and password at the specific selected insurance company.

In stage **677**, the insurance company server approves the user as a registered client and opens for the user direct access to his accounts in the insurance company. If the user's sent ID and access data was not approved, then the user is sent back to stage **673** for another insurance company access trial.

In stage **678**, the insurance company gets a specific instruction from the user such as, to download a specific insurance policy to his apparatus, or to update data in another policy and then the insurance company server approves the user's request. At the end of the user's interaction process, the user's access to the insurance company server is closed and the user is sent back to stage **673**.

Another possible flowchart of the process steps is associated with the use of the invention apparatus and the user interaction with the invention system after the stage of the user is positively authenticated and getting an approved access to the invention system and then establishing a connection with the invention system. The described process in this flowchart starts from the user getting secured access through the system with various kind of hospitals, medical clinics, HMOs and other medial entities and services providers to fulfill specific related data search and for records updating and executing updating of the user's medical records, is shown in previous Figure **5** where the process starts when the user has reached stage **720** in the invention system user's access creation process **700** described in figure 7.

In stage **720**, in process **700** the user has received full access to the invention system as described in figure **5** and the user has selected the option in his interaction

screen to get access to the system memory dealing with his medical records and getting secured access through the system to various system registered medical service providers.

5 In stage **720**, the user receives a menu screen requesting him to choose between medical insurance companies (HMO) and then he goes to stage **721**, or alternatively to choose hospitals then he goes to stage **740**, or ending the process by going back to stage **515**.

10 In stage **721**, the system creates secured access to the medical insurance company server that the user is a member of, according to the relevant data in the medical records stored in the user apparatus memory.

In stage **722**, the apparatus sends to the medical insurance server the user's member username and medical insurance member ID number and if requested also the user's access password to the medical insurance website.

15 In stage **723**, the medical insurance company server checks if the user medical file ID data fits to the ID and user data that was received from the user's apparatus through the invention system and continues to stage **724** if positive and returns back to stage **720** if negative.

20 In stage **724**, the system requests the user to select between several options in a menu screen he gets on through his host or cell phone display. In option **725**, the user may choose making a doctor/clinic appointment. In choosing option **730**, the user requests all his past medical tests results, otherwise the user is directed back to stage **720** and then stops if no further action item is selected by him.

25 In stage **725**, the user receives a screen from the medical insurance through the system and to his host display requesting the user to select the type and the name of the medical doctor he wants to meet.

In stage **726**, the user gets a screen with the reception open dates, hours for the selected doctor.

In stage **727**, the user is selecting his best date and time choice for appointment to the selected doctor.

In stage **728**, the user receives from the medical insurance computer a final confirmation notice on his host screen regarding the user's final approved medical appointment time and day, then goes to stage **729**.

5 In stage **729**, the user receives a menu on his host screen display to choose if he wants to make another appointment. Then he may move to **725** or to see his past medical tests results he goes to **730**, or to return to main menu **720** or to save in stage **801**.

In stage **730**, the user receives on his host screen display a menu screen from the medical insurance server, to select the medical tests results he wants to review.

10 In stage **731**, the user selects the requested tests results and the user's apparatus forwards to the host screen the most updated results the user has in his apparatus memory on this specific test, if any.

15 In stage **732**, the medical insurance company server searches its memory records to check if it finds more relevant updated tests data on this user and then it sends the found files to the user's host to enable the user to select either to display the results on the screen or/and to save them in his apparatus memory for long term storage.

In stage **733**, the user selects his choice on the processing of the retrieved medical tests results and the system goes back to stage **729**, which may connect to the save stage **801** in figure 8.

20 In stage **740**, the user receives a menu screen on his host display to choose a hospital from a list, or to return to stage **720**. He then chooses the preferred hospital from the list and then goes to stage **741**.

25 In stage **741**, the system server contacts the selected hospital via a secured communication channel it has with each of the hospitals in the displayed list and creates an open communication link with the hospital server.

In Stage **742**, the user's personal apparatus sends the user's ID data file including full name, ID card number and details.

30 In stage **743**, the selected hospital server checks if it has in its records that the specific user was a hospitalized patient or was treated by the hospital's clinics; if yes goes to stage **744**, if not, it goes back to stage **740**.

In stage **744**, the user receives a screen with a menu requesting him to choose if he needs a hospital release medical report, or medical tests results and the user selects his choice.

In stage **745**, the hospital server searches for the selected data files and goes to  
5 **746** if the requested data files were found, and if not, the process goes back to stage **740**.

In stage **746**, the user receives the information from the hospital on his host screen.

In stage **747**, the user receives a menu screen requesting him to choose where to store the retrieved hospital data in the system memory wherein the user's personal  
10 medical data files are stored, or in the user's personal apparatus memory, or in both then it goes to stage **801**.

.After the new medical files are saved and stored in one or two of the selected storage memories in stage **801**, then the process goes back to stage **720**, where the user gets a new menu screen to start another medical data processing sequence with the  
15 invention system and with external medical services providers or goes back to stage **515** in figure 5.

Another possible flowchart of the a dedicated process steps, is associated with the use of the invention apparatus and the user's interaction with the invention system, after the stage in which the user is positively authenticated and getting an  
20 approved access to the invention system and establishing an open connection link with the invention system. The described dedicated process in this flowchart is related to the steps of the user needs to store and retrieve data in and out of the system memory bank, the related processes are described in figure 8 which covers the process **800** of data storage and retrieval in the invention system memory.

In step **801**, the user is requested by a menu on his host screen to choose  
25 between retrieval of data from the system memory and then the process goes to stage **805**. Alternatively, if the user selects the option to save data in the system memory, then the process goes to stage **820**, or if the user wants to end this process it goes to stage **999**.

In step **805**, if the data requested is from the non-secured data memory  
30 partition of the system mass memory bank, then the process goes to **810**, or if the user

needs to retrieve secured data from the secured data partition of the system memory the process goes to **816**.

In stage **810**, the user's personal apparatus send the user's ID data file.

5 In stage **812**, the system server approves the user's ID and requests to get from the user his selected data retrieval keywords, to enable the system server to find the requested data from the system's memory vast data base.

In stage **814**, the system server approves the selected search keywords, finds the requested data files according to the given keywords and returns to stage **805**.

10 In stage **816**, where the user has selected in stage **805** the option to retrieve secured data files, then the user's apparatus sends to the system server for secured identification, the apparatus' memory stored L alphanumeric characters of the secured access code, security string, that was generated in the first user's registration stage activities at the system server and is stored both at the apparatus memory as well as in the system memory sector that stores the specific user data.

15 In stage **817**, the system server requests the user to enter the requested secured data files relevant DB access keywords and goes to stage **818**.

In stage **818**, the system server retrieves the user requested secured data files according to the user's selected search keywords, then the user is requested through the host if to return back to **801**. If the user wishes to store further data or initiate the retrieval sequence, he returns to **805**, or he may go to end stage **999** and stop.

20

In stage **820**, the user is requested through a menu screen in his host, to save the retrieved or the new data in the system non-secured data memory sector - stage **821**, or if he wishes to store the new data in the system secured data memory sector he goes to stage **826**, or to go back to stage **801** to restart the entire process **800**.

25 In stage **821**, the user's personal apparatus sends the user's ID card number.

In stage **822**, the system server requests the user, while connecting to the user through the host or the cellular phone he is connected to, to get the user's selected data base save and retrieval keywords for the specific new data file the user wants to save in his personal files sector in the system's database.

In stage **824**, the personal apparatus encrypts the specific file in process and sends it for the user's retrieval to the user's personal files sector in the system's database and then return to stage **801**.

5 In stage **826**, the personal apparatus sends to the system server the hidden user-system agreed identification string of L alphanumeric characters of the secured access code.

10 In stage **828**, the system sever requests the user to define and send the user's selected data base save and retrieval keywords for the specific new data file the user wants to save securely encrypted in his non accessible personal files sector in the system's database.

In stage **829**, the personal apparatus encrypts the user's file and then sends it to the system server to be stored in the system's secured and encrypted data files memory sector. Then the user can select if to repeat the data handling process and go to stage **801** or to end the process and go to end stage **999**.

15 In stage **999**, the process ends and the user is disconnected from the system server and from his personal apparatus which also shuts down.

20 Referring now to Figure 9, which illustrates the dedicated device **1000** related to the present invention, serving as one possible embodiment of a charging and user personal data backup device for the invention apparatus. Figure 9 demonstrates a conceptual modular structure and the related device internal sub-modules layout and functionality for the present invention apparatus's charging and data backup device.

25 Block **1010** in figure 9 is the device **1000** mains plug-in charging module that includes the device **1000** charging plug **1012** for its connection to the mains supply, an AC-DC converter unit **1014** and a power supply unit **1016**. Unit **1014** converts the mains AC voltage to DC voltage and the power supply **1016** generates from the converted DC voltage, all the DC voltages that are required to drive the device **1000** electronic sub-module **1020** various electronic components.

30 Sub-module **1040** includes a battery charger and a rechargeable battery, to enable power backup and safe operation of the device **100**, in case of lack of voltage supply from the mains electrical power. Sub-module **1020** is the device main electronic module that includes a micro processor and associated electronics sub-module **1024** and

a mass memory, solid state, flash memory based sub-module **1028**, that is of a similar memory capacity size, when compared to the memory units **150** and **170** combined data storage capacity in the apparatus **100**. The electronic unit **1020** automatically checks the memory sub-module **1028** updating requirements, whenever the apparatus **100** is  
5 connected through its interphasing data plug **110** to the device **1000** connection plug unit **1030**. Processor sub-module **1024** checks the apparatus **100** last updating date and its related secured and non secured memory data content and status and if it is more updated then the data stored in the memory **1028** of the device, then it creates a mirror image of the apparatus **100** memory sub-modules **150** and **170** content, in memory unit  
10 **1028**. In case that for some reason the memory content of the apparatus **100** is erased or injured, then the sub-module **1024** detects it and automatically updates the apparatus **100** memory units **150** and **170** with the last version of the data stored in memory module **1028** of device **1000**.

Sub-module **1050** is an electronic buzzer activation module that operates upon  
15 pressing a button, located on the device **1000** housing, an RF transmitter also integrated in this sub module **1050**. When a user needs to allocate the exact position of his apparatus in the home or office environment, the user presses the module **1050** buzzer button, then the integrated RF transmitter sub-module **1050** transmits a coded signal to the Buzzer RF receiver sub-module **198** embedded within the apparatus **100** housing and  
20 then the detected coded signal activates an electronic sound buzzer that emits an easily detectable sound. The sound buzzer is integrated in the apparatus **100** sub-module **166** and enables the user to easily allocate through the generated sound the position of the apparatus **100** in a room or an open space.

25

## WHAT IS CLAIMED IS

1. Apparatus managing personal and secured data and documentation files stored in the apparatus, comprising:

- 5           (a) a sensor module comprising a plurality of biometric sensors for reading a plurality of personal biological identification parameters of the user holding the apparatus, said apparatus being uniquely identified with said user;
- 10          (b) a processing module in communication with said sensor module for processing said personal biological identification parameters and for processing and managing the personal and secured data and documentation files associated with said user;
- 15          (c) an authentication unit in communication with the processing module configured to receive and authenticate the identity of said user by comparing said user's personal biological identification parameters read, by the sensor module and processed by the processing module,
- 20           with a pre-recorded set of personal biological identification parameters stored in said authentication unit;
- (d) an encryption module in communication with said processing module for the encryption plus compression and/or decompression plus decryption of said user's data
- 25           files;
- (e) a memory module in communication with said processing module and said encryption module for the storage of said user's data and documentation files;
- 30          (f) communication and data connection means in communication with said processing module for connecting said apparatus with an external device.

wherein access to the user's stored personal data and documentation files associated with said unique user is only enabled after positive authentication of said user's personal biological identification parameters by said authentication unit.

5     2.     The apparatus according to claim 1, wherein said plurality of biometric sensors continuously read a plurality of personal biological identification parameters associated with said user holding the apparatus and in the event that a change occurs in any of the plurality of personal biological identification parameters, access to the stored personal data files is denied  
10    and the operation of the apparatus is completely shut down.

3.     The apparatus according to claim 1, wherein at least one of said plurality of biometric sensors is a life signs detector, said life signs detector being configured to measure and record at least one of said user's life sign parameters.

15    4.     The apparatus according to claim 3, wherein said at least one of said user's life sign parameters is measured by any of a group of life sign indicators including a body pulse rate measurement indicator, a body O<sub>2</sub> saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or  
20    emotional stress indicator.

5.     The apparatus according to claim 3, wherein, whenever any of the group of life sign indicators detects a critical level, the apparatus is configured to initiate an emergency call to any of a group of registered emergency centers, and send to said registered emergency centers any of a  
25    group of data files containing information associated with the user, including the identification data file of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user.

6.     The apparatus according to claim 1, further comprising:  
          an emergency button in communication with said processing  
30    module and said communication and data connection means module;  
          wherein on said emergency button being activated,  
          communication is initiated between said apparatus and any of a group of registered emergency centers, said emergency call transmitting any

of a group of data files containing information associated with the unique user of said apparatus, including the identification data of said user, the personal medical data file of said user, and location of said user.

5 7. The apparatus according to claim 1, wherein said apparatus is configured to communicate with any of a group of service providers including banks, credit card companies, clinics, hospitals and medical insurance companies, municipal and utility entities and websites frequently accessed by said user thereby allowing said user to access and manage said  
10 user's personal data and documentation files processed stored and provided to said user's apparatus by said group of service providers.

8. The apparatus according to claim 1, wherein said external device comprises any one of a group including a remote server, a local server, a host computer, voice or data communication means and a cellular phone.

15 9. The apparatus according to claim 5, wherein said emergency call is initiated via any one of a group of communication means including a secured server, directly via the internet by said apparatus connection and communication means, via the internet through any host computer, via a voice and data communication device and via any cellular phone network.

20 10. The apparatus according to claim 6, wherein said emergency call is initiated via any one of a group of communication means including a secured server, directly via the internet by said apparatus connection and communication means, via the internet through any host computer, via a voice and data communication device and the cellular phone network.

25 11. The apparatus according to claim 1, wherein said communication and data connection means comprises at least one of a group of connection and communication devices including any data interface connector attached to a host computer, a Mini USB or compatible industrial data interface connector attached to a cellular phone, a near field wireless communication interface, a  
30 magnetic reader interface, and a smart card reader based on a contact-less communication interface using induction or RF communication.

12. The apparatus according to claim 1, wherein said memory module comprises a detachable and upgradeable miniature PCB board having Flash

and/or Nano type solid state read and write memory components with a memory capacity of at least 10 Gigabytes of accessible memory size.

13. The apparatus according to claim 1, further comprising:

a magnetic strip element that is only activatable after positive authentication of said user's personal biological identification parameters; and

wherein said magnetic strip is configured to be concealed within the apparatus and on activation configured to extend out of the apparatus for swiping and reading by any of group of devices including a credit card reader, ATM and point of sale magnetic strip reading device.

14. The apparatus according to claim 1, further comprising a updating module in communication with the processing module configured to securely update the user's data and documentation files.

15. The apparatus according to claim 1, further comprising an integrated digital data encoder/decoder and a RF transceiver module in communication with the processing module, said integrated digital data encoder/decoder and a RF transceiver module being configured to communicate with any of a group of external devices including RF operated credit card readers, ATM machines and electronic locks or gate/door opener remotely operated using RFID based techniques.

16. The apparatus according to claim 15, further comprising a supplementary base-station device in communication with said RF transceiver, said base-station device configured to electrically charge the apparatus and simultaneously automatically execute a backup of the internal secured and non-secured stored data of the apparatus.

17. The apparatus according to claim 11, further comprising an integrated software module that automatically detects the operating system of the computer or cellular phone connected to said apparatus through one of said group of communicating devices through which the apparatus is connected, said computer or cellular phone having keyboard and display units associated therewith, thereby allowing the user to interact with said memory module and with said processing module of said apparatus via said keyboard and

display units, whereby said computer or cellular phone is configured to utilize and interact with said memory module, said processing module and said sensor module of said apparatus.

18. The apparatus according to claim 1, further comprising a power charging and data backup device in communication with the processing module of said apparatus, said device comprising;

i. a charging and power sub module comprising a charging plug for connecting to the mains supply, an AC-DC converter, a power supply unit and a rechargeable backup battery.

ii. an electronic sub module comprising a micro processor, and a mass memory unit,

iii. an activation sub-module comprising an electronic buzzer activator, a button connected to said buzzer activator and an RF transmitter connected to said electronic buzzer activator , wherein on activating said buzzer button, said RF transmitter is configured to transmit a coded signal to the apparatus to enable the user to determine the location of the apparatus; and

wherein said charging and power sub module, said electronic sub module and said activation sub-module are in communication with each other; and

wherein the memory module of said apparatus is in communication with the mass memory unit of said device, thereby to compare and synchronize the version of data stored in the memory module of said apparatus with the version of data stored in mass memory unit of said device.

19. The apparatus according to claim 1, further comprising an integrated GPS module in communication with the processing module to precisely locate the geographical position of the apparatus.

20. The apparatus according to claim 1, further comprising at least one module selected from the group comprising a cellular modem module in communication with the processing module; and a flat display and touch screen module in communication with the processing module.

21. A method for managing personal and secured data and documentation files of a plurality of unique users, each one of said plurality of unique users having a personal identification unit uniquely associated with said one user for storing each user's personal data and documentation files, each of said  
5 personal identification units comprising:
- a sensor module comprising a plurality of biometric sensors;
  - a processing module in communication with said sensor module;
  - an authentication unit in communication with the processing  
10 module;
  - an encryption module in communication with said processing module;
  - a memory module in communication with said processing module and said encryption module; and
  - 15 communication and data connection means in communication with said processing module;
- the method comprising the steps of:
- a. said sensor module reading a plurality of personal biological identification parameters of the user holding the apparatus; and
  - 20 b. said authentication module comparing the personal biological identification parameters of said user with a pre-recorded set of personal biological identification parameters stored in said authentication unit; and
  - c. if said authentication unit positively identifies said user,  
25 allowing said user access to said user's personal data and documentation files stored in said memory module and allowing said user to communicate with other communication means through said apparatus.
22. The method of claim 21 further comprising the steps of:
- 30 said biometric sensors continuously reading a plurality of personal biological identification parameters of said user holding the apparatus; and

in the event that a change occurs in any of the plurality of personal biological identification parameters, denying access to the stored personal data files and completely shutting down the operation of said apparatus.

5     23.     The method of claim 21, wherein at least one of said plurality of biometric sensors is a life signs detector, configured to measure and record at least one of a group of life sign indicators including a body pulse rate measurement indicator, a body O<sub>2</sub> saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body  
10    respiration indicator and a physical or emotional stress indicator, the method further comprising the steps of:

initiating an emergency call to any of a group of registered emergency centers, whenever any of the life sign indicators detects a critical level; and

15           wherein said emergency call transmits any of a group of data files information associated with the user, including identification of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user.

24.     The method of claim 21, wherein said apparatus further comprises an  
20    emergency button in communication with said processing module and said communication and data connection means module, the method further comprising the steps of:

when said emergency button is activated, communication is initiated between said apparatus and any of a group of registered  
25    emergency centers; and

said emergency call transmitting any of a group of data files information associated with the user, including identification of the user, the personal medical data file of the user, and location of the user.

30    25.     The method of claim 21, further comprising the step of:

communicating, via any one of a group of communication means, with any of a group of service providers including banks, credit card companies, clinics, hospitals and medical insurance companies,

municipal and utility entities and websites frequently accessed by said user thereby allowing said user to access and manage said user's personal data and documentation files stored by said group of service providers.

5     26.     The method of claim 21, wherein said apparatus further comprises a magnetic strip element, the method further comprising the step of:

              after positive authentication of said user's personal biological identification parameters, activating said magnetic strip thereby allowing said magnetic strip to be read by any of group of devices  
10           including a credit card reader, ATM, and point of sale magnetic strip reading device.

              27.     The method of claim 21, wherein said apparatus further comprises a power charging and data backup device, said device comprising a charging and power sub module, an electronic sub module and a mass memory solid-  
15     state memory unit, the method further comprising the steps of:

              comparing the memory content of said apparatus memory module to the memory content of said device mass memory solid-state memory unit; and

              if the memory module of the apparatus lacks data, updating the  
20     apparatus memory with the last version of the data stored within said memory sub-module; and

              if said solid-state memory unit of said device lacks data, updating the solid-state memory unit of said device with the last version of the data stored within said apparatus memory sub-module.

25     28.     The method of claim 21, wherein each of said plurality of unique users is in communication with a system manager, said system manager managing a remote centralized data communication storage and management system of said plurality of unique users, the method further comprising the steps of:

30           a. said system manager registering each unique user and storing the personal ID data file of each unique user in a memory sub-system connected to said centralized system; and

b. said registration further includes the step wherein said system manager generates for each system user N pairs of two different randomly selected characters strings, each of said strings is a combination of n alphanumeric characters in length; and

5 c. said system manager storing said N pairs in said system memory sub-system and sending said n characters strings pairs to be stored in said unique user personal identification unit memory module; and

d. said personal identification unit generating a secret access code  
10 of L alphanumeric characters to be further stored in said system memory within a special partition containing the list of said secret access codes for said plurality of unique users without assigning any identification or link between the associated users to his registered secret access code.

15 29. The method of claim 28, wherein after registration and upon normal initiation of communication between said system manager and each unique user , said system manager further communicating with said unique user and first comparing said unique user's ID data file and said personal identification unit unique embedded characterizing serial number stored in  
20 the unique user's personal identification unit with the corresponding user's ID and personal identification data stored in said memory sub-system; and

if the two sets of identification data match;

i. said system manager sending a first string of said stored N  
25 strings of coded alphanumeric data, to said user's personal identification unit; and

ii said user personal identification unit responding with the second matching string from the same stored pair of coded alphanumeric data uniquely associated with said user personal identification unit; and

30 iii said system manager comparing the received second string of coded alphanumeric data with a second string of coded alphanumeric data pre-stored in the memory sub-system; and

- iv. said system manager comparing for consecutive M out of N times the received additional different strings of coded alphanumeric data pre-stored in the memory of said personal identification unit associated with said unique user with the additional strings of coded alphanumeric data pre-stored in the memory of sub-system; and
- v. if all M strings of coded alphanumeric data match, then said system manager declares authenticating of said unique user and permitting said unique user access to said system.
30. The method of claim 29, wherein after said user gains access to said system, said user chooses either to work with the unsecured parts of said system memory or to gain access to said user secured personal data stored in said system memory by sending from said personal identification unit said secret access code that permits each such user sole access to his private secured memory partition in said system memory.
31. The method of claim 28, further comprising the steps of:
- after the step of authenticating, said system manager connecting the personal identification unit of said unique user with any of a group of emergency centers or service providers registered with said system manager at the request of said user personal identification unit; and
- in the case of a medical emergency call initiated by said personal identification unit, transferring the user's updated medical data to the emergency center.
32. A system for managing personal and secured data and documentation files of a plurality of unique users, the system comprising:
- a. a system manager for managing and updating personal data of said system plurality of unique users and for communicating with each of said plurality of unique users; and
- b. a memory sub-system connected to said system manager to store updated personal data of each of said plurality of unique users; and
- c. a plurality of personal identification units, each of said personal identification units being associated with a unique user, each

unique user being registered with said system manager and the personal ID data file of each unique user being stored in said memory sub-system; and

d. a plurality of computer hosts and cellular phones in communication with said system manager, enabling the direct connection by said system manager with said plurality of unique users through their corresponding personal identification unit; and

e. a plurality of registered emergency centers and a plurality of registered service providers in communication with said system manager, said plurality of service providers including banks, credit card companies, insurance companies, clinics, hospitals and medical insurance companies, government, municipal and utility entities and selected websites frequently accessed by said plurality of users; and

wherein said system manager's access to and communication with the personal data and documentation files stored in said personal identification units associated with each said unique user and to the personal data and documentation files stored by said group of service providers is only enabled after positive authentication of said unique user's personal biological identification parameters by said authentication unit.

33. The system according to claim 32, wherein each of said plurality of personal identification units comprises:

i. a sensor module comprising a plurality of biometric sensors for reading a plurality of personal biological identification parameters of the user holding the of personal identification units, said of personal identification units being uniquely identified with said user;

ii. a processing module in communication with said sensor module for processing said personal biological identification parameters and for processing and managing the personal and secured data and documentation files associated with said user;

iii. an authentication unit in communication with the processing module configured to receive and authenticate the identity of said user by comparing said user's personal biological identification

parameters read, by the sensor module and processed by the processing module, with a pre-recorded set of personal biological identification parameters stored in said authentication unit;

iv. an encryption module in communication with said processing module for the encryption plus compression and/or decompression plus decryption of said user's data files;

v. a memory module in communication with said processing module and said encryption module for the storage of said user's data and documentation files; and

vi. communication and data connection means in communication with said processing module for connecting said of personal identification units with said system manager and plurality of service providers;

The system according to claim 33, wherein said system manager is configured:

to communicate with said personal identification units to compare the user's ID data file stored in the unique user's personal identification units with the corresponding identification data stored in said memory sub-system, and

if the two sets of identification data match, then said system manager is configured to initiate a further level of security identification prior to full communication and data updating capability being enabled between said system manager and said user personal identification unit; and

wherein said further level of security identification comprises said system manager sending a first string of coded alphanumeric data uniquely associated with said user personal identification unit to said user personal identification unit, said personal identification unit responding with a second string of coded alphanumeric data uniquely associated with said user personal identification unit, and said system manager verifying the received second string of coded alphanumeric data with a second string of coded alphanumeric data pre-stored in the memory sub-system; and

said system manager comparing for full matching for N consecutive times received additional different strings of coded alphanumeric data pre-stored in the memory of said personal identification unit associated with said unique user with counter generated additional strings of coded alphanumeric data pre-stored in the memory of sub-system.

35. The system according to claim 33, wherein said plurality of biometric sensors continuously read a plurality of personal biological identification parameters associated with the user holding his unique personal identification units and in the event that a change occurs in any of the plurality of personal biological identification parameters, access to the stored personal data files is denied and the operation of said identification units is completely shut down.

36. The system according to claim 33, wherein each personal identification unit further comprises an emergency button in communication with said processing module and said communication and data connection means module;

wherein at least one of said plurality of biometric sensors is a life signs detector, said life signs detector being configured to measure and record at least one of said user's life sign parameters; and

wherein said at least one of said user's life sign parameters is measured by any of a group of life sign indicators including a body pulse rate measurement indicator, a body O<sub>2</sub> saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator; and

wherein the personal identification unit is configured to initiate an emergency call to any of said plurality of registered emergency centers, whenever said emergency button is activated or whenever any of the group of life sign indicators detects a critical level; and

wherein the personal identification unit is configured to transmit any of a group of data files containing information associated with the user, including the identification data of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user.

37. The system of claim 36, wherein said system, further comprises:  
a computerized call center configured to receive phone calls or  
emergency voice and data messages from any of said plurality of  
registered emergency centers and a plurality of registered service  
5 providers and to communicate with any of said plurality of cellular  
phone and host computers; and  
wherein said call center is configured to communicate the user's  
location coordinates to an emergency rescue team and simultaneously  
said call center is configured to communicate with any of said  
10 plurality of registered emergency centers and service providers to  
receive said user's updated medical data and to transfer said data to  
the user's personal identification unit.

## **ABSTRACT OF THE DISCLOSURE**

A system, method and personal apparatus for managing highly secured personal data is provided. The system and the personal apparatus are complementary, both providing highly secured personal data, mass, safe and secured data access, storage and management solutions, while serving the needs for managing and exchanging secured personal data with external services and data providers and with other such highly secured personal data users. The apparatus may be used independently of the system by securely connecting the apparatus to service providers. The apparatus, which is uniquely identified with a unique user, includes a sensor module comprising a plurality of biometric sensors for reading a plurality of personal biological identification parameters of the user and an authentication unit for positive authentication of the user's personal biological identification parameters stored in the authentication unit. The system is designed to securely serve the needs of conducting and maintaining multiple users' personal data access, storage, updating and retrieval capabilities. The method supports the safe and secured operation of the apparatus by its owner, in order to get access to the system and to exchange highly secured personal data with external pre-registered service providers and with other registered system users.

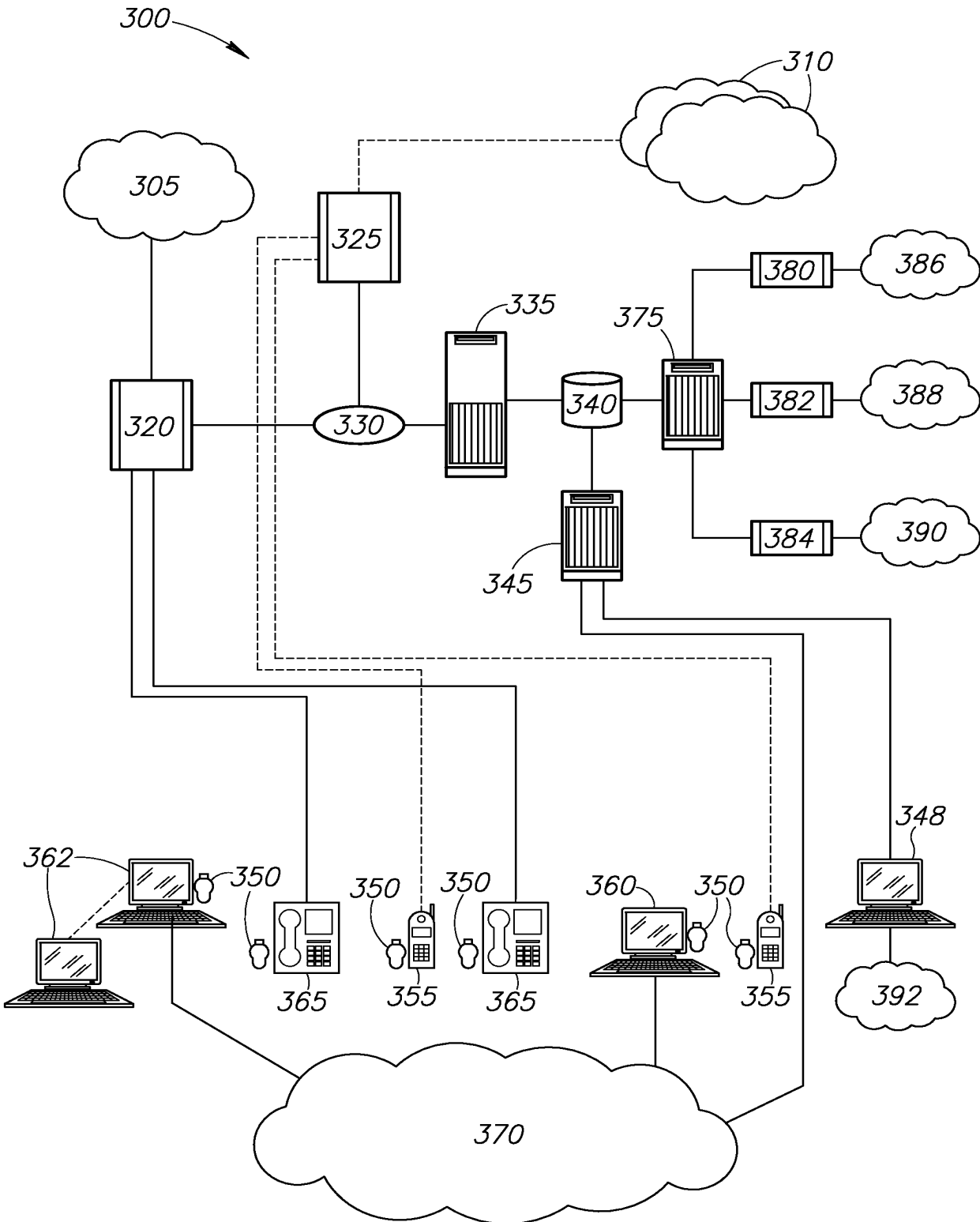


FIG.1

2/9

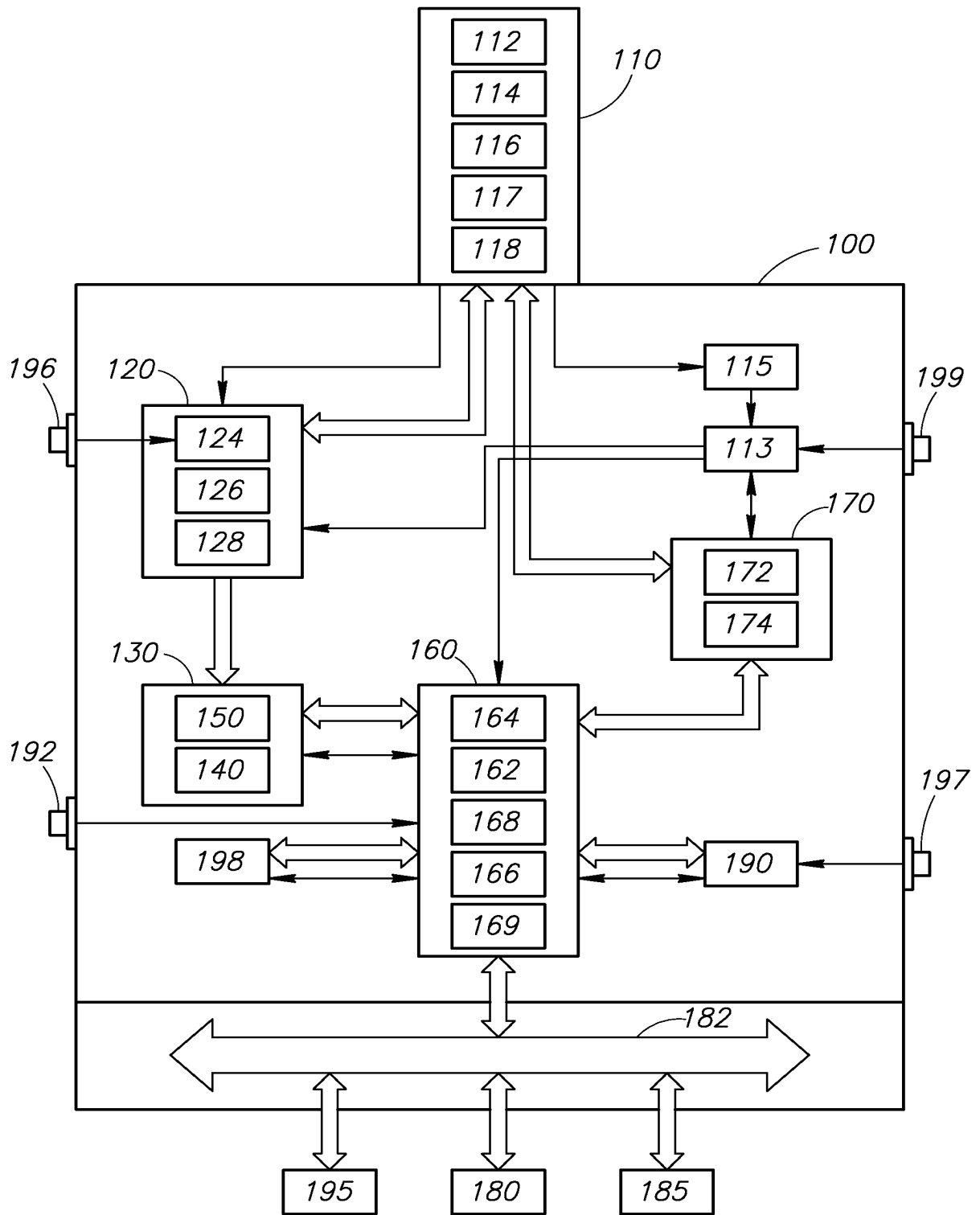


FIG.2

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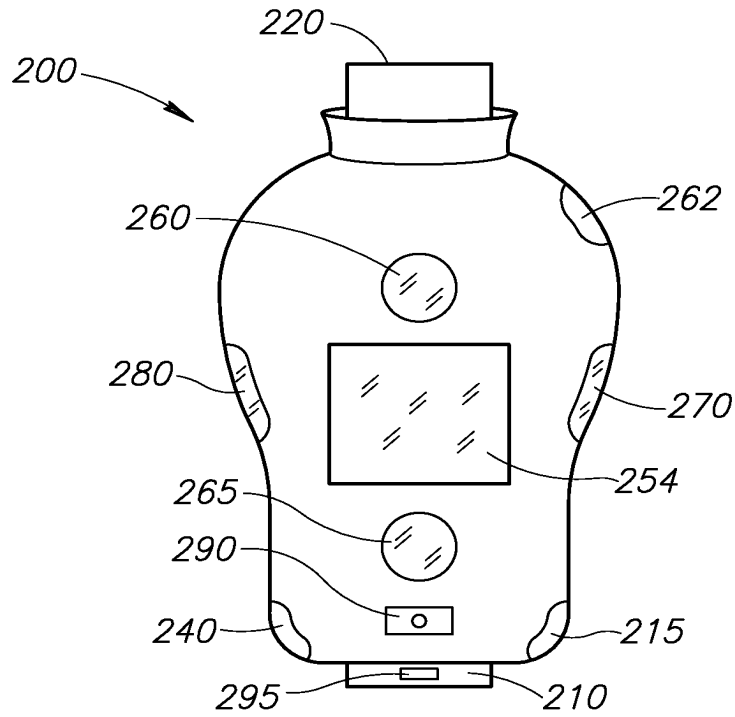


FIG. 3A

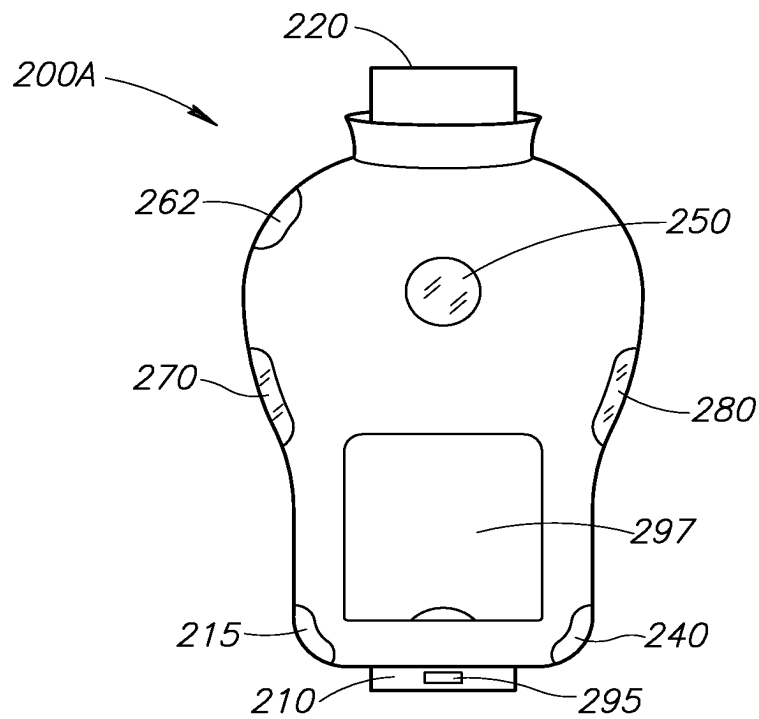


FIG. 3B

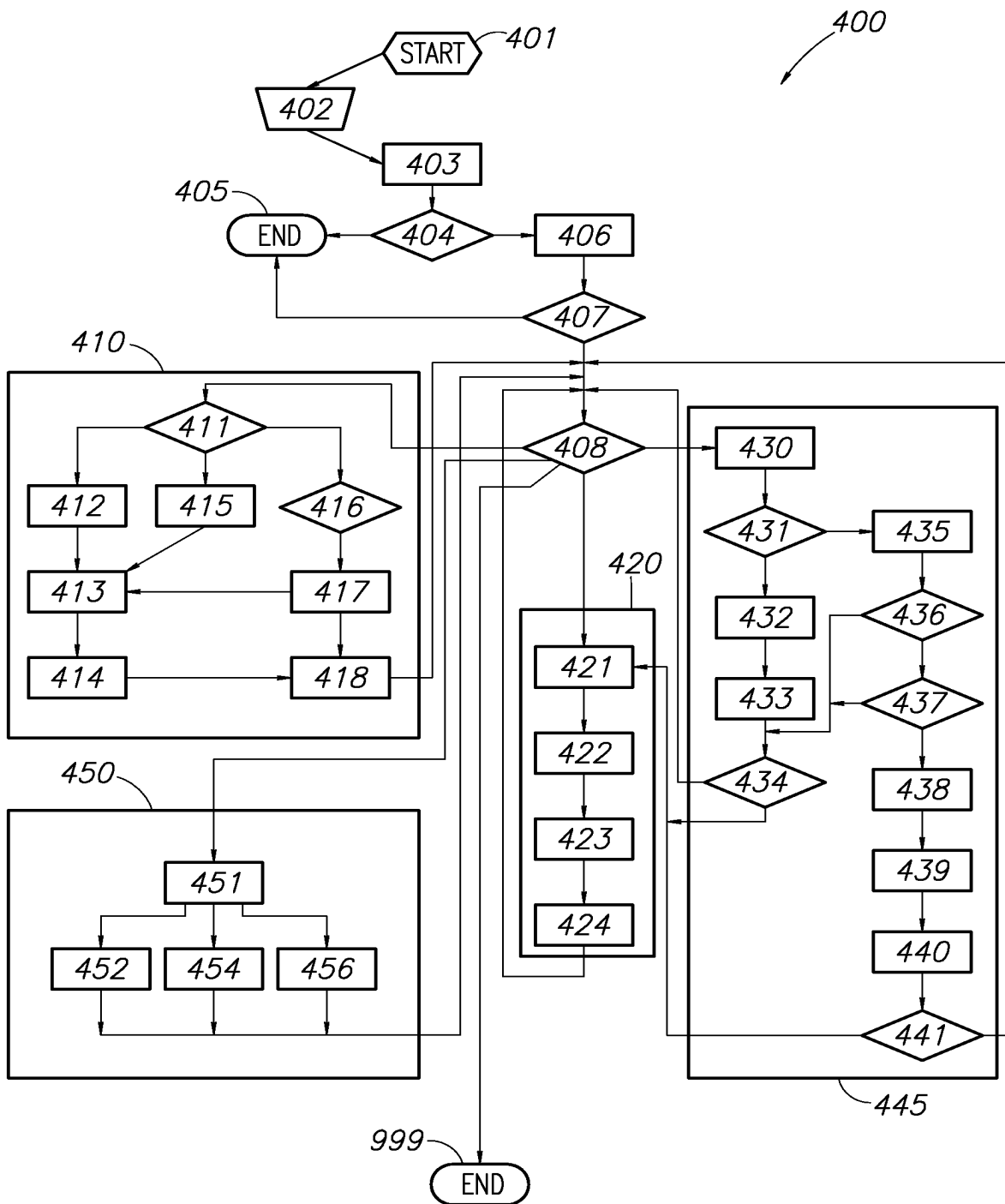


FIG.4

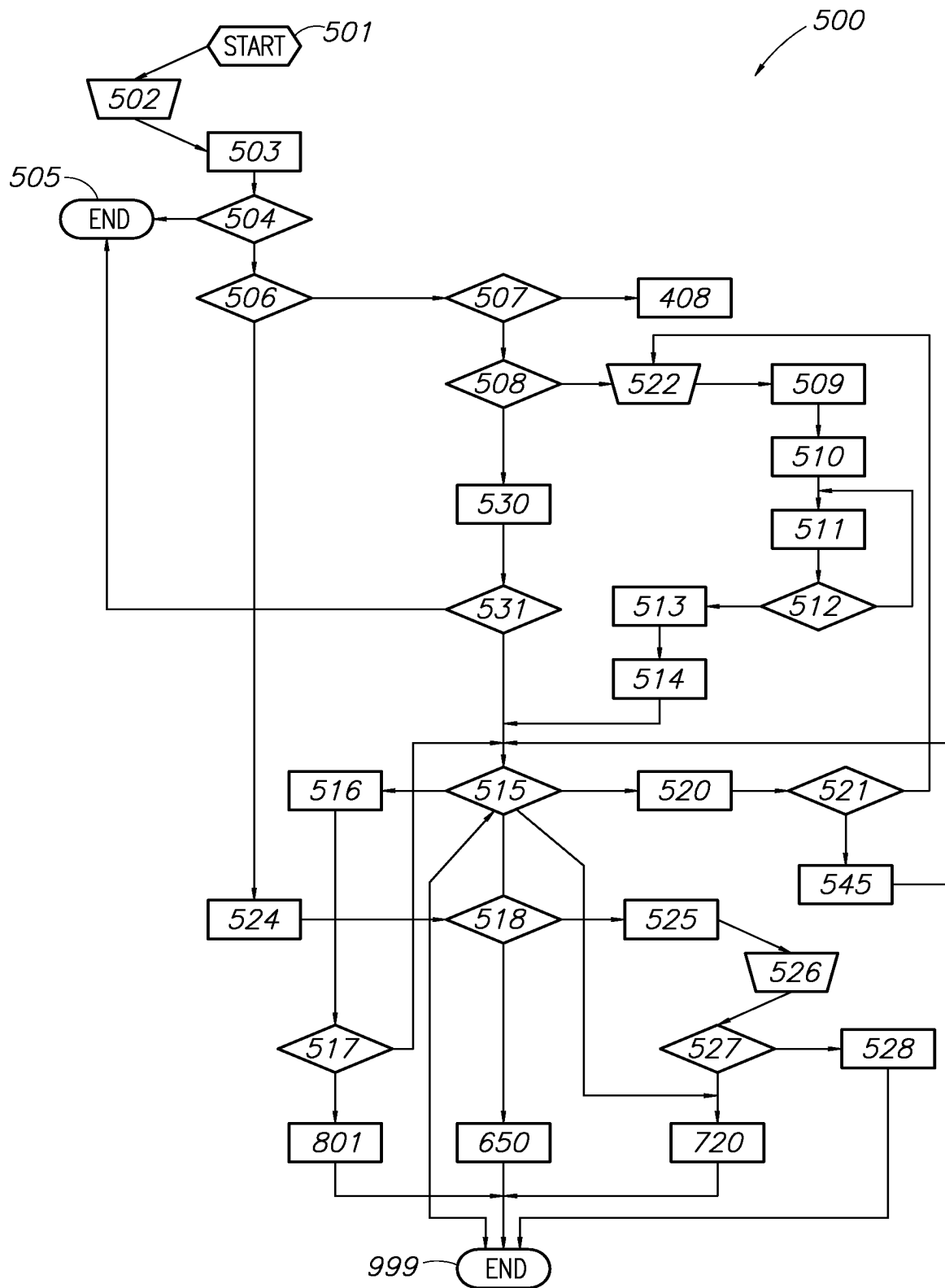


FIG.5

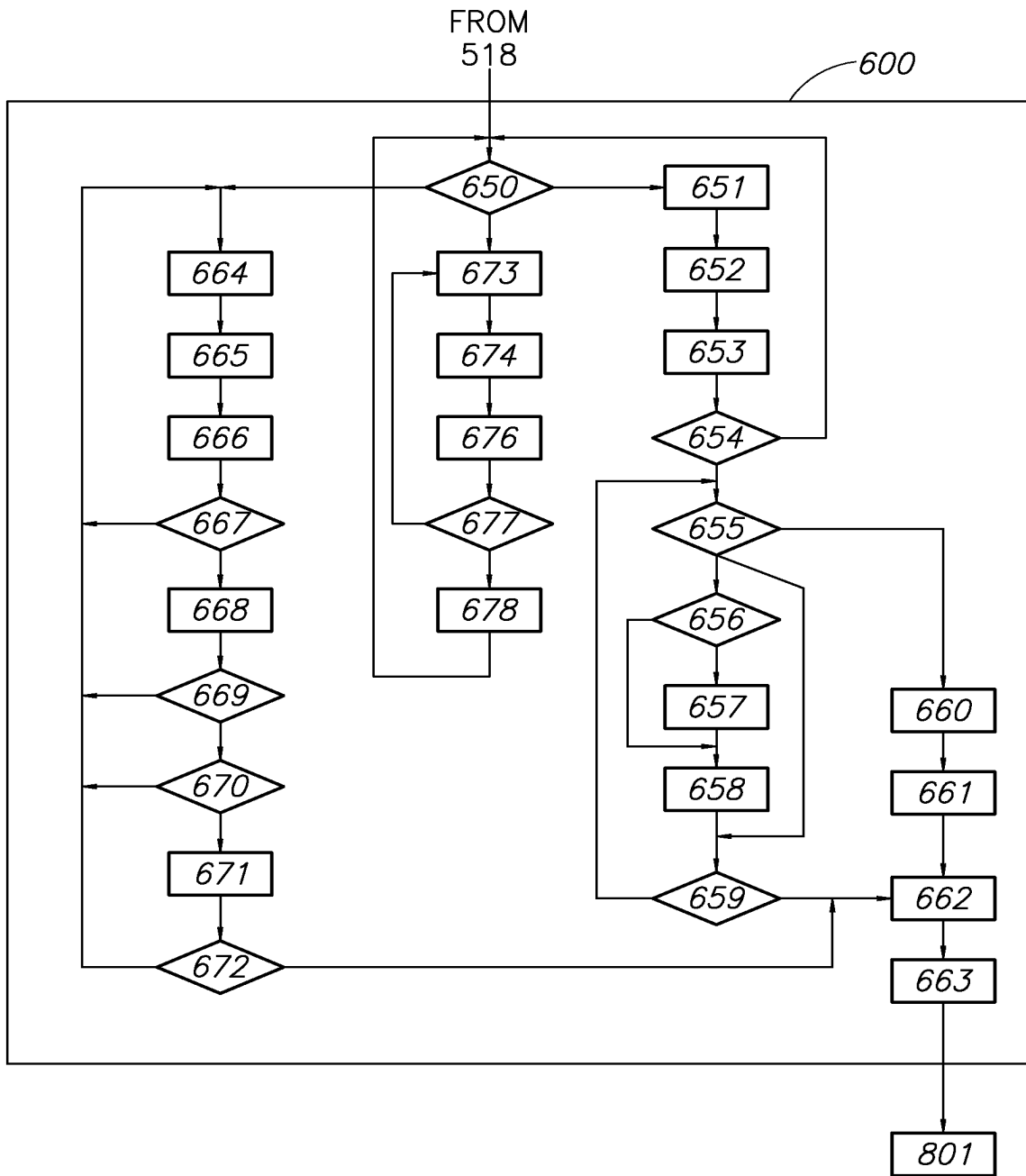


FIG.6

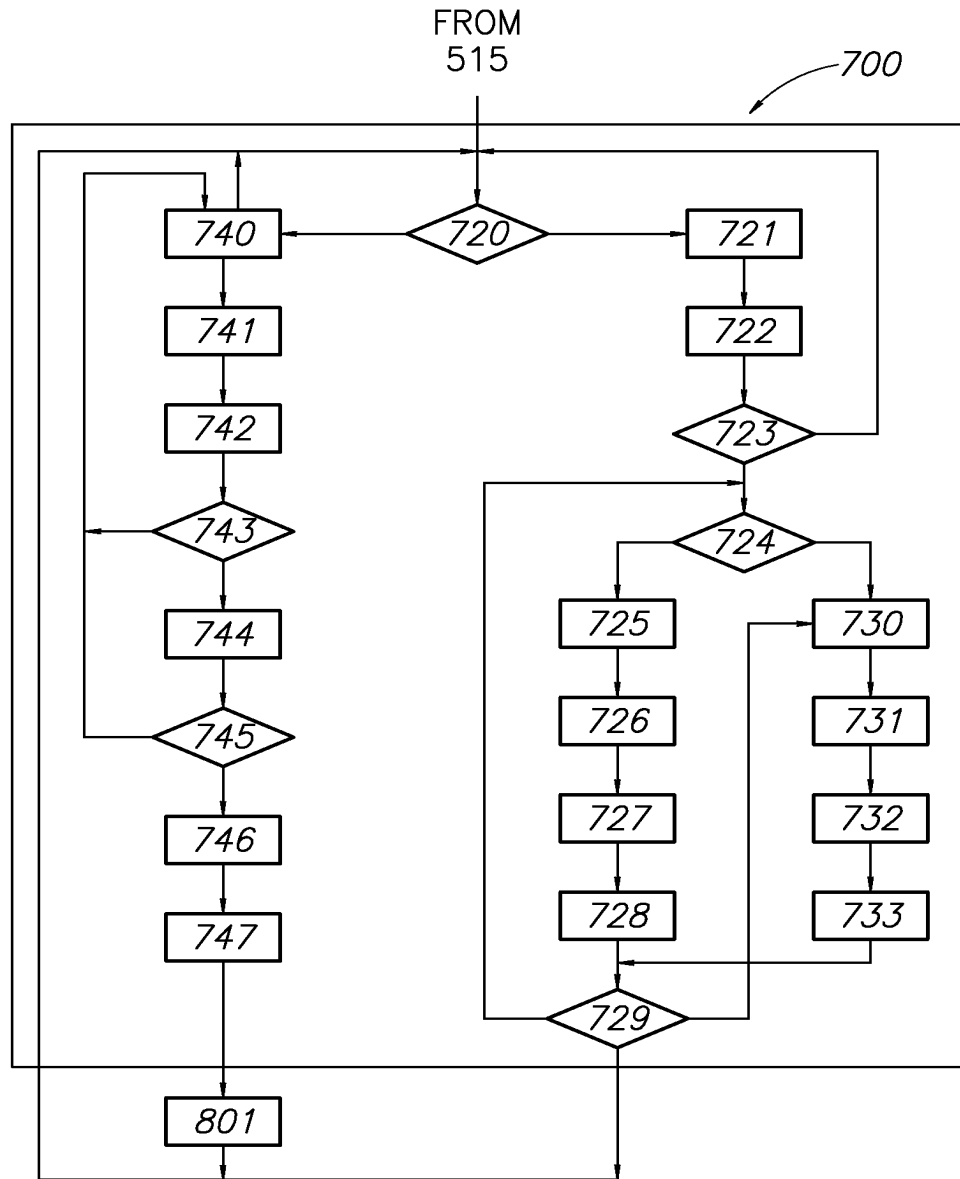


FIG. 7

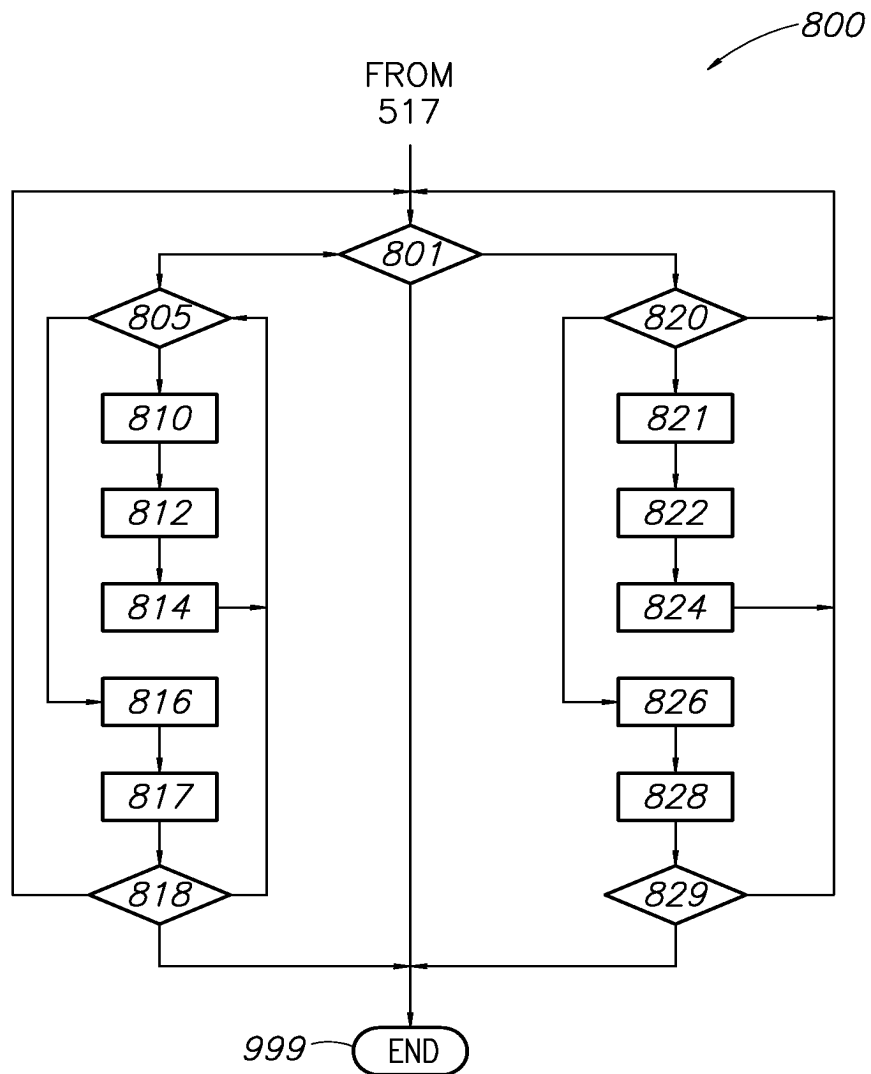


FIG.8

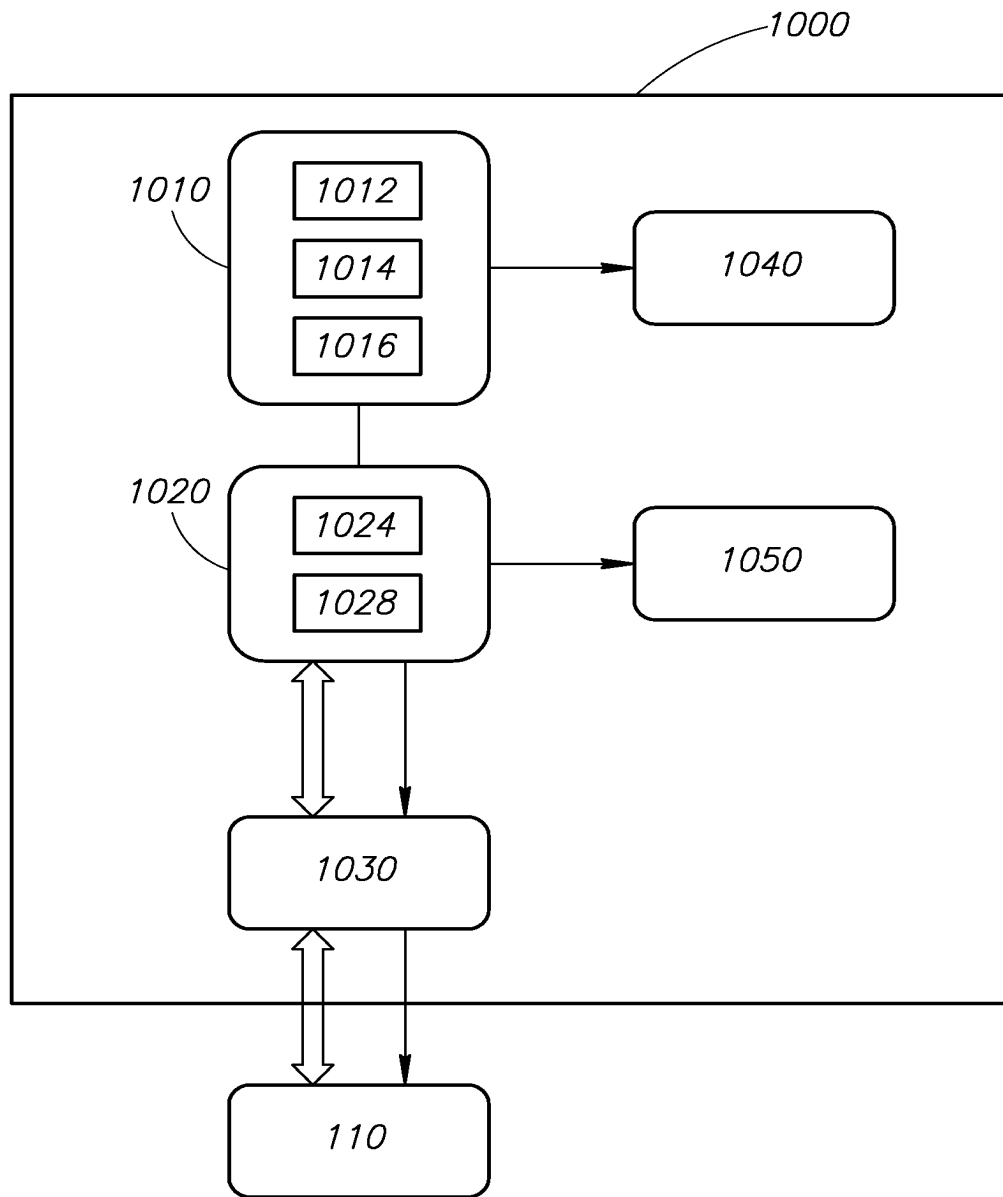


FIG.9

**DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below under my name.

I believe I am the original, first and sole inventor (if only one name is listed below), or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**A SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM**

the Specification of which

☒ is attached hereto  
☐ was filed on \_\_\_\_\_  
as Application Serial No. \_\_\_\_\_  
and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified Specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, 1.56(a).

**PRIORITY CLAIM - NON-U.S. OR PCT PATENT APPLICATION(S)**

I hereby claim priority benefits under 35 U.S.C. 119(a)-(d) or 35 U.S.C. 365(b) of any foreign application(s) for patent or inventor's certificate listed below, or 35 U.S.C. 365(a) of any PCT international application listed below which designated at least one country other than the United States of America, and have also listed below any foreign application for patent or inventor's certificate, or any PCT international application having a filing date before that of the application on which priority is claimed:

| APPLICATION<br>NUMBER | COUNTRY/<br>CONVENTION | DAY/MONTH/YEAR<br>FILED | PRIORITY<br>CLAIMED |
|-----------------------|------------------------|-------------------------|---------------------|
|-----------------------|------------------------|-------------------------|---------------------|

**PRIORITY CLAIM - U.S. PROVISIONAL PATENT APPLICATION(S)**

I hereby claim priority benefits under 35, U.S.C. §119 of any U.S. Provisional Patent Application listed below that has been filed in the United States in accordance with 35 U.S.C.

§119(e), or any U.S. Patent Application listed below that has been converted to a U.S. Provisional Application within one (1) year of its filing date:

| APPLICATION<br>NUMBER | DAY/MONTH/YEAR FILED | PRIORITY CLAIMED |
|-----------------------|----------------------|------------------|
| 61/ 313,145           | MARCH 12, 2010       | YES              |

**PRIORITY CLAIM - U.S. PATENT APPLICATION(S)**

I hereby claim the benefit under 35 U.S.C. §120 of any U.S. Patent Application listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in any prior U.S. Patent Application in the manner provided by the first paragraph of 35 U.S.C. §112, I acknowledge the duty to disclose material information as defined in 37 CFR §1.56(a), which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

| APPLICATION<br>NUMBER | DAY/MONTH/YEAR FILED | STATUS - PATENTED,<br>PENDING, ABANDONED |
|-----------------------|----------------------|------------------------------------------|
|-----------------------|----------------------|------------------------------------------|

**DESIGNATION OF ATTORNEY OR AGENT**

I hereby appoint Henry M. Sinai and/or the following attorneys and/or agents at Customer Number 35650 with full power of substitution and revocation to prosecute this application and transact all business connected therewith in the United States Patent and Trademark Office, provided that if one of said attorneys or agents ceases being affiliated with the firm of IP-PARTNERSHIP as partner, associate, employee or of counsel, such attorney's or agent's appointment as attorney or agent and all powers derived therefrom shall terminate on the date such attorney or agent ceases being so affiliated.

Daniel J. Swirsky (Reg. No. 45,148)

David Klein (Reg. No. 41,118)

Heidi M. Brun (Reg. No. 34,504)

Attorney Docket No.: OSH-2799-US

Please address all correspondence regarding this application to:

CUSTOMER NUMBER 35650

being:

IP-PARTNERSHIP  
PO BOX 669  
RAANANA 43350, ISRAEL

Please direct all telephone calls to International: (972) 9-746 0363 and all facsimiles to (US) 800 243 2384, and all email messages to [hsinai@ip-partnership.com](mailto:hsinai@ip-partnership.com)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF INVENTOR:

Gila FISH

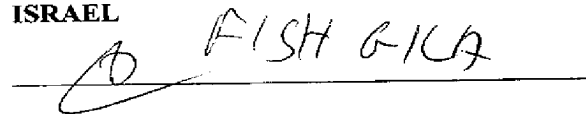
ADDRESS:

10/3 Ha'efroni St.; Mevasseret Zion 90805;  
ISRAEL

COUNTRY OF CITIZENSHIP:

ISRAEL

SIGNATURE OF INVENTOR

Handwritten signature of Gila Fish, with the name "FISH GILA" written above the signature line.

NAME OF INVENTOR:

Avner KORMAN

ADDRESS:

1 Bnei Binyamin St.; Herzlia 46362; ISRAEL

COUNTRY OF CITIZENSHIP:

ISRAEL

SIGNATURE OF INVENTOR

Handwritten signature of Avner Korman, with the name "KORMAN AVNER" written above the signature line.

| Electronic Patent Application Fee Transmittal  |          |                                                        |        |                      |
|------------------------------------------------|----------|--------------------------------------------------------|--------|----------------------|
| Application Number:                            |          |                                                        |        |                      |
| Filing Date:                                   |          |                                                        |        |                      |
| Title of Invention:                            |          | A SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM |        |                      |
| First Named Inventor/Applicant Name:           |          | Gila FISH                                              |        |                      |
| Filer:                                         |          | Henry SINAI                                            |        |                      |
| Attorney Docket Number:                        |          | OSH-2799-US                                            |        |                      |
| Filed as Small Entity                          |          |                                                        |        |                      |
| <b>Utility under 35 USC 111(a) Filing Fees</b> |          |                                                        |        |                      |
| Description                                    | Fee Code | Quantity                                               | Amount | Sub-Total in USD(\$) |
| <b>Basic Filing:</b>                           |          |                                                        |        |                      |
| Utility filing Fee (Electronic filing)         | 4011     | 1                                                      | 82     | 82                   |
| Utility Search Fee                             | 2111     | 1                                                      | 270    | 270                  |
| Utility Examination Fee                        | 2311     | 1                                                      | 110    | 110                  |
| <b>Pages:</b>                                  |          |                                                        |        |                      |
| <b>Claims:</b>                                 |          |                                                        |        |                      |
| Claims in excess of 20                         | 2202     | 17                                                     | 26     | 442                  |
| <b>Miscellaneous-Filing:</b>                   |          |                                                        |        |                      |
| <b>Petition:</b>                               |          |                                                        |        |                      |

| Description                       | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|-----------------------------------|----------|----------|--------|----------------------|
| Patent-Appeals-and-Interference:  |          |          |        |                      |
| Post-Allowance-and-Post-Issuance: |          |          |        |                      |
| Extension-of-Time:                |          |          |        |                      |
| Miscellaneous:                    |          |          |        |                      |
| Total in USD (\$)                 |          |          |        | 904                  |

## Electronic Acknowledgement Receipt

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|---------------------------------------------|--------------------------------------------------------|
| <b>EFS ID:</b>                              | 8151914                                                |
| <b>Application Number:</b>                  | 12849971                                               |
| <b>International Application Number:</b>    |                                                        |
| <b>Confirmation Number:</b>                 | 8890                                                   |
| <b>Title of Invention:</b>                  | A SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM |
| <b>First Named Inventor/Applicant Name:</b> | Gila FISH                                              |
| <b>Customer Number:</b>                     | 35650                                                  |
| <b>Filer:</b>                               | Henry SINAI                                            |
| <b>Filer Authorized By:</b>                 |                                                        |
| <b>Attorney Docket Number:</b>              | OSH-2799-US                                            |
| <b>Receipt Date:</b>                        | 04-AUG-2010                                            |
| <b>Filing Date:</b>                         |                                                        |
| <b>Time Stamp:</b>                          | 13:02:04                                               |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                            |

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| RAM confirmation Number                  | 8724        |
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### File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/<br>Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|-----------|-------------------------------------|------------------|------------------|
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|                              |                                                     |                     |                                          |     |    |
|------------------------------|-----------------------------------------------------|---------------------|------------------------------------------|-----|----|
| 1                            |                                                     | Spec_2799US_osh.pdf | 430353                                   | yes | 75 |
|                              |                                                     |                     | 5bc70e861fbe4f26aba26bf76aabb55b57f98ce8 |     |    |
|                              | Multipart Description/PDF files in .zip description |                     |                                          |     |    |
|                              | Document Description                                |                     | Start                                    | End |    |
|                              | Specification                                       |                     | 1                                        | 60  |    |
|                              | Claims                                              |                     | 61                                       | 74  |    |
|                              | Abstract                                            |                     | 75                                       | 75  |    |
| Warnings:                    |                                                     |                     |                                          |     |    |
| Information:                 |                                                     |                     |                                          |     |    |
| 2                            | Drawings-only black and white line drawings         | 2799US_figs.pdf     | 93214                                    | no  | 9  |
|                              |                                                     |                     | 96398e34a02d8eac84925e846daf389af6b2f59f |     |    |
| Warnings:                    |                                                     |                     |                                          |     |    |
| Information:                 |                                                     |                     |                                          |     |    |
| 3                            | Oath or Declaration filed                           | DECLPOA_2799us.pdf  | 154513                                   | no  | 3  |
|                              |                                                     |                     | 3202d18638acac864e191ae4fff49a30bffb7520 |     |    |
| Warnings:                    |                                                     |                     |                                          |     |    |
| Information:                 |                                                     |                     |                                          |     |    |
| 4                            | Fee Worksheet (PTO-875)                             | fee-info.pdf        | 36412                                    | no  | 2  |
|                              |                                                     |                     | 4e5d614a77dd095cf23f5c5319cb9a04d590b352 |     |    |
| Warnings:                    |                                                     |                     |                                          |     |    |
| Information:                 |                                                     |                     |                                          |     |    |
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**New Applications Under 35 U.S.C. 111**

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

**National Stage of an International Application under 35 U.S.C. 371**

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

**New International Application Filed with the USPTO as a Receiving Office**

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Date: 08/04/10

Approved for use through 7/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| PATENT APPLICATION FEE DETERMINATION RECORD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                      |                                    |                     |              | Application or Docket Number<br><b>12/849,971</b> |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
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| Substitute for Form PTO-875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| <b>APPLICATION AS FILED – PART I</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | SMALL ENTITY |                                                   | OR       |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| OTHER THAN SMALL ENTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | NUMBER FILED                                                                                                                                                                                                         | NUMBER EXTRA                       | RATE (\$)           | FEE (\$)     | RATE (\$)                                         | FEE (\$) |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| BASIC FEE<br>(37 CFR 1.16(a), (b), or (c))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | N/A                                                                                                                                                                                                                  | N/A                                | N/A                 | 82           | N/A                                               |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| SEARCH FEE<br>(37 CFR 1.16(k), (l), or (m))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | N/A                                                                                                                                                                                                                  | N/A                                | N/A                 | 270          | N/A                                               |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | N/A                                                                                                                                                                                                                  | N/A                                | N/A                 | 110          | N/A                                               |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| TOTAL CLAIMS<br>(37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 37                                                                                                                                                                                                                   | minus 20 = 17                      | x\$26               | 442          | x\$52                                             |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3                                                                                                                                                                                                                    | minus 3 = *                        | x\$110              |              | x\$220                                            |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| APPLICATION SIZE FEE<br>(37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$260 (\$130 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                      |                                    | 195                 |              | 390                                               |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    | TOTAL               | 904          | TOTAL                                             |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| * If the difference in column 1 is less than zero, enter "0" in column 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| <b>APPLICATION AS AMENDED – PART II</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| SMALL ENTITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                      | OTHER THAN SMALL ENTITY            |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| RATE (\$)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ADDITIONAL FEE (\$)                                                                                                                                                                                                  | RATE (\$)                          | ADDITIONAL FEE (\$) |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| X =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                      | X =                                |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| X =                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                      | X =                                |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                      | N/A                                |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| TOTAL ADD'T FEE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      | TOTAL ADD'T FEE                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">(Column 1)</th> <th colspan="2" style="text-align: center;">(Column 2)</th> <th colspan="2" style="text-align: center;">(Column 3)</th> </tr> <tr> <th style="text-align: center;">AMENDMENT A</th> <th style="text-align: center;">CLAIMS REMAINING AFTER AMENDMENT</th> <th style="text-align: center;">HIGHEST NUMBER PREVIOUSLY PAID FOR</th> <th style="text-align: center;">PRESENT EXTRA</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Total (37 CFR 1.16(i))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus **</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td>Independent (37 CFR 1.16(h))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus ***</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td colspan="6">Application Size Fee (37 CFR 1.16(s))</td> </tr> <tr> <td colspan="6">FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))</td> </tr> </tbody> </table> </div> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">(Column 1)</th> <th colspan="2" style="text-align: center;">(Column 2)</th> <th colspan="2" style="text-align: center;">(Column 3)</th> </tr> <tr> <th style="text-align: center;">AMENDMENT B</th> <th style="text-align: center;">CLAIMS REMAINING AFTER AMENDMENT</th> <th style="text-align: center;">HIGHEST NUMBER PREVIOUSLY PAID FOR</th> <th style="text-align: center;">PRESENT EXTRA</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Total (37 CFR 1.16(i))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus **</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td>Independent (37 CFR 1.16(h))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus ***</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td colspan="6">Application Size Fee (37 CFR 1.16(s))</td> </tr> <tr> <td colspan="6">FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))</td> </tr> </tbody> </table> </div> </div> |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          | (Column 1) |  | (Column 2) |  | (Column 3) |  | AMENDMENT A | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |  |  | Total (37 CFR 1.16(i)) | * | Minus ** | = |  |  | Independent (37 CFR 1.16(h)) | * | Minus *** | = |  |  | Application Size Fee (37 CFR 1.16(s)) |  |  |  |  |  | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |  |  |  |  |  | (Column 1) |  | (Column 2) |  | (Column 3) |  | AMENDMENT B | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |  |  | Total (37 CFR 1.16(i)) | * | Minus ** | = |  |  | Independent (37 CFR 1.16(h)) | * | Minus *** | = |  |  | Application Size Fee (37 CFR 1.16(s)) |  |  |  |  |  | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |  |  |  |  |  |
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| AMENDMENT A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">(Column 1)</th> <th colspan="2" style="text-align: center;">(Column 2)</th> <th colspan="2" style="text-align: center;">(Column 3)</th> </tr> <tr> <th style="text-align: center;">AMENDMENT B</th> <th style="text-align: center;">CLAIMS REMAINING AFTER AMENDMENT</th> <th style="text-align: center;">HIGHEST NUMBER PREVIOUSLY PAID FOR</th> <th style="text-align: center;">PRESENT EXTRA</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Total (37 CFR 1.16(i))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus **</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td>Independent (37 CFR 1.16(h))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus ***</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td colspan="6">Application Size Fee (37 CFR 1.16(s))</td> </tr> <tr> <td colspan="6">FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))</td> </tr> </tbody> </table> </div> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">(Column 1)</th> <th colspan="2" style="text-align: center;">(Column 2)</th> <th colspan="2" style="text-align: center;">(Column 3)</th> </tr> <tr> <th style="text-align: center;">AMENDMENT B</th> <th style="text-align: center;">CLAIMS REMAINING AFTER AMENDMENT</th> <th style="text-align: center;">HIGHEST NUMBER PREVIOUSLY PAID FOR</th> <th style="text-align: center;">PRESENT EXTRA</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Total (37 CFR 1.16(i))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus **</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td>Independent (37 CFR 1.16(h))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus ***</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td colspan="6">Application Size Fee (37 CFR 1.16(s))</td> </tr> <tr> <td colspan="6">FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))</td> </tr> </tbody> </table> </div> </div> |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          | (Column 1) |  | (Column 2) |  | (Column 3) |  | AMENDMENT B | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |  |  | Total (37 CFR 1.16(i)) | * | Minus ** | = |  |  | Independent (37 CFR 1.16(h)) | * | Minus *** | = |  |  | Application Size Fee (37 CFR 1.16(s)) |  |  |  |  |  | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |  |  |  |  |  | (Column 1) |  | (Column 2) |  | (Column 3) |  | AMENDMENT B | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |  |  | Total (37 CFR 1.16(i)) | * | Minus ** | = |  |  | Independent (37 CFR 1.16(h)) | * | Minus *** | = |  |  | Application Size Fee (37 CFR 1.16(s)) |  |  |  |  |  | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
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| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">(Column 1)</th> <th colspan="2" style="text-align: center;">(Column 2)</th> <th colspan="2" style="text-align: center;">(Column 3)</th> </tr> <tr> <th style="text-align: center;">AMENDMENT B</th> <th style="text-align: center;">CLAIMS REMAINING AFTER AMENDMENT</th> <th style="text-align: center;">HIGHEST NUMBER PREVIOUSLY PAID FOR</th> <th style="text-align: center;">PRESENT EXTRA</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Total (37 CFR 1.16(i))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus **</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td>Independent (37 CFR 1.16(h))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus ***</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td colspan="6">Application Size Fee (37 CFR 1.16(s))</td> </tr> <tr> <td colspan="6">FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))</td> </tr> </tbody> </table> </div> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">(Column 1)</th> <th colspan="2" style="text-align: center;">(Column 2)</th> <th colspan="2" style="text-align: center;">(Column 3)</th> </tr> <tr> <th style="text-align: center;">AMENDMENT B</th> <th style="text-align: center;">CLAIMS REMAINING AFTER AMENDMENT</th> <th style="text-align: center;">HIGHEST NUMBER PREVIOUSLY PAID FOR</th> <th style="text-align: center;">PRESENT EXTRA</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Total (37 CFR 1.16(i))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus **</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td>Independent (37 CFR 1.16(h))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus ***</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td colspan="6">Application Size Fee (37 CFR 1.16(s))</td> </tr> <tr> <td colspan="6">FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))</td> </tr> </tbody> </table> </div> </div> |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          | (Column 1) |  | (Column 2) |  | (Column 3) |  | AMENDMENT B | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |  |  | Total (37 CFR 1.16(i)) | * | Minus ** | = |  |  | Independent (37 CFR 1.16(h)) | * | Minus *** | = |  |  | Application Size Fee (37 CFR 1.16(s)) |  |  |  |  |  | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |  |  |  |  |  | (Column 1) |  | (Column 2) |  | (Column 3) |  | AMENDMENT B | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |  |  | Total (37 CFR 1.16(i)) | * | Minus ** | = |  |  | Independent (37 CFR 1.16(h)) | * | Minus *** | = |  |  | Application Size Fee (37 CFR 1.16(s)) |  |  |  |  |  | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
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| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
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| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
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| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">(Column 1)</th> <th colspan="2" style="text-align: center;">(Column 2)</th> <th colspan="2" style="text-align: center;">(Column 3)</th> </tr> <tr> <th style="text-align: center;">AMENDMENT B</th> <th style="text-align: center;">CLAIMS REMAINING AFTER AMENDMENT</th> <th style="text-align: center;">HIGHEST NUMBER PREVIOUSLY PAID FOR</th> <th style="text-align: center;">PRESENT EXTRA</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Total (37 CFR 1.16(i))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus **</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td>Independent (37 CFR 1.16(h))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus ***</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td colspan="6">Application Size Fee (37 CFR 1.16(s))</td> </tr> <tr> <td colspan="6">FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))</td> </tr> </tbody> </table> </div> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">(Column 1)</th> <th colspan="2" style="text-align: center;">(Column 2)</th> <th colspan="2" style="text-align: center;">(Column 3)</th> </tr> <tr> <th style="text-align: center;">AMENDMENT B</th> <th style="text-align: center;">CLAIMS REMAINING AFTER AMENDMENT</th> <th style="text-align: center;">HIGHEST NUMBER PREVIOUSLY PAID FOR</th> <th style="text-align: center;">PRESENT EXTRA</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Total (37 CFR 1.16(i))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus **</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td>Independent (37 CFR 1.16(h))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus ***</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td colspan="6">Application Size Fee (37 CFR 1.16(s))</td> </tr> <tr> <td colspan="6">FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))</td> </tr> </tbody> </table> </div> </div> |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          | (Column 1) |  | (Column 2) |  | (Column 3) |  | AMENDMENT B | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |  |  | Total (37 CFR 1.16(i)) | * | Minus ** | = |  |  | Independent (37 CFR 1.16(h)) | * | Minus *** | = |  |  | Application Size Fee (37 CFR 1.16(s)) |  |  |  |  |  | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |  |  |  |  |  | (Column 1) |  | (Column 2) |  | (Column 3) |  | AMENDMENT B | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |  |  | Total (37 CFR 1.16(i)) | * | Minus ** | = |  |  | Independent (37 CFR 1.16(h)) | * | Minus *** | = |  |  | Application Size Fee (37 CFR 1.16(s)) |  |  |  |  |  | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
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| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
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| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
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| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">(Column 1)</th> <th colspan="2" style="text-align: center;">(Column 2)</th> <th colspan="2" style="text-align: center;">(Column 3)</th> </tr> <tr> <th style="text-align: center;">AMENDMENT B</th> <th style="text-align: center;">CLAIMS REMAINING AFTER AMENDMENT</th> <th style="text-align: center;">HIGHEST NUMBER PREVIOUSLY PAID FOR</th> <th style="text-align: center;">PRESENT EXTRA</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Total (37 CFR 1.16(i))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus **</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td>Independent (37 CFR 1.16(h))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus ***</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td colspan="6">Application Size Fee (37 CFR 1.16(s))</td> </tr> <tr> <td colspan="6">FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))</td> </tr> </tbody> </table> </div> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">(Column 1)</th> <th colspan="2" style="text-align: center;">(Column 2)</th> <th colspan="2" style="text-align: center;">(Column 3)</th> </tr> <tr> <th style="text-align: center;">AMENDMENT B</th> <th style="text-align: center;">CLAIMS REMAINING AFTER AMENDMENT</th> <th style="text-align: center;">HIGHEST NUMBER PREVIOUSLY PAID FOR</th> <th style="text-align: center;">PRESENT EXTRA</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Total (37 CFR 1.16(i))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus **</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td>Independent (37 CFR 1.16(h))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus ***</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td colspan="6">Application Size Fee (37 CFR 1.16(s))</td> </tr> <tr> <td colspan="6">FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))</td> </tr> </tbody> </table> </div> </div> |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          | (Column 1) |  | (Column 2) |  | (Column 3) |  | AMENDMENT B | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |  |  | Total (37 CFR 1.16(i)) | * | Minus ** | = |  |  | Independent (37 CFR 1.16(h)) | * | Minus *** | = |  |  | Application Size Fee (37 CFR 1.16(s)) |  |  |  |  |  | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |  |  |  |  |  | (Column 1) |  | (Column 2) |  | (Column 3) |  | AMENDMENT B | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |  |  | Total (37 CFR 1.16(i)) | * | Minus ** | = |  |  | Independent (37 CFR 1.16(h)) | * | Minus *** | = |  |  | Application Size Fee (37 CFR 1.16(s)) |  |  |  |  |  | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Total (37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | *                                                                                                                                                                                                                    | Minus **                           | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Independent (37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | *                                                                                                                                                                                                                    | Minus ***                          | =                   |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">(Column 1)</th> <th colspan="2" style="text-align: center;">(Column 2)</th> <th colspan="2" style="text-align: center;">(Column 3)</th> </tr> <tr> <th style="text-align: center;">AMENDMENT B</th> <th style="text-align: center;">CLAIMS REMAINING AFTER AMENDMENT</th> <th style="text-align: center;">HIGHEST NUMBER PREVIOUSLY PAID FOR</th> <th style="text-align: center;">PRESENT EXTRA</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Total (37 CFR 1.16(i))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus **</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td>Independent (37 CFR 1.16(h))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus ***</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td colspan="6">Application Size Fee (37 CFR 1.16(s))</td> </tr> <tr> <td colspan="6">FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))</td> </tr> </tbody> </table> </div> <div style="width: 45%;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">(Column 1)</th> <th colspan="2" style="text-align: center;">(Column 2)</th> <th colspan="2" style="text-align: center;">(Column 3)</th> </tr> <tr> <th style="text-align: center;">AMENDMENT B</th> <th style="text-align: center;">CLAIMS REMAINING AFTER AMENDMENT</th> <th style="text-align: center;">HIGHEST NUMBER PREVIOUSLY PAID FOR</th> <th style="text-align: center;">PRESENT EXTRA</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td>Total (37 CFR 1.16(i))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus **</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td>Independent (37 CFR 1.16(h))</td> <td style="text-align: center;">*</td> <td style="text-align: center;">Minus ***</td> <td style="text-align: center;">=</td> <td colspan="2"></td> </tr> <tr> <td colspan="6">Application Size Fee (37 CFR 1</td></tr></tbody></table></div></div>                                                                                                             |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          | (Column 1) |  | (Column 2) |  | (Column 3) |  | AMENDMENT B | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |  |  | Total (37 CFR 1.16(i)) | * | Minus ** | = |  |  | Independent (37 CFR 1.16(h)) | * | Minus *** | = |  |  | Application Size Fee (37 CFR 1.16(s)) |  |  |  |  |  | FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j)) |  |  |  |  |  | (Column 1) |  | (Column 2) |  | (Column 3) |  | AMENDMENT B | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA |  |  | Total (37 CFR 1.16(i)) | * | Minus ** | = |  |  | Independent (37 CFR 1.16(h)) | * | Minus *** | = |  |  | Application Size Fee (37 CFR 1        |  |  |  |  |  |                                                                 |  |  |  |  |  |
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| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
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| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                      | (Column 2)                         |                     | (Column 3)   |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
| AMENDMENT B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | CLAIMS REMAINING AFTER AMENDMENT                                                                                                                                                                                     | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA       |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |
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| Application Size Fee (37 CFR 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                      |                                    |                     |              |                                                   |          |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |            |  |            |  |            |  |             |                                  |                                    |               |  |  |                        |   |          |   |  |  |                              |   |           |   |  |  |                                       |  |  |  |  |  |                                                                 |  |  |  |  |  |



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| APPLICATION<br>NUMBER | FILING or<br>371(c) DATE | GRP ART<br>UNIT | FIL FEE REC'D | ATTY. DOCKET NO | TOT CLAIMS | IND CLAIMS |
|-----------------------|--------------------------|-----------------|---------------|-----------------|------------|------------|
| 12/849,971            | 08/04/2010               | 2113            | 904           | OSH-2799-US     | 37         | 3          |

CONFIRMATION NO. 8890

FILING RECEIPT



\*OC000000043014548\*

35650  
HENRY M. SINAI  
(IP-PARTNERSHIP)  
P.O. BOX 669  
RAANANA, 43350  
ISRAEL

Date Mailed: 08/17/2010

Receipt is acknowledged of this non-provisional patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. **If an error is noted on this Filing Receipt, please submit a written request for a Filing Receipt Correction. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections**

**Applicant(s)**

Gila FISH, Mevasseret Zion, ISRAEL;  
Avner KORMAN, Herzlia, ISRAEL;

**Power of Attorney:** The patent practitioners associated with Customer Number 35650

**Domestic Priority data as claimed by applicant**

This appln claims benefit of 61/313,145 03/12/2010

**Foreign Applications**

**If Required, Foreign Filing License Granted:** 08/11/2010

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 12/849,971**

**Projected Publication Date:** 09/15/2011

**Non-Publication Request:** No

**Early Publication Request:** No

**\*\* SMALL ENTITY \*\***

**Title**

SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM

**Preliminary Class**

714

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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|--------------------|-----------------------|-----------------------|------------------------|
| 12/849,971         | 08/04/2010            | Gila FISH             | OSH-2799-US            |

**CONFIRMATION NO. 8890**

## PUBLICATION NOTICE



35650  
HENRY M. SINAI  
(IP-PARTNERSHIP)  
P.O. BOX 669  
RAANANA, 43350  
ISRAEL

**Title:** SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM

**Publication No.** US-2011-0224509-A1

**Publication Date:** 09/15/2011

## NOTICE OF PUBLICATION OF APPLICATION

The above-identified application will be electronically published as a patent application publication pursuant to 37 CFR 1.211, et seq. The patent application publication number and publication date are set forth above.

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| APPLICATION NO.                                                                                         | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.          | CONFIRMATION NO.       |
|---------------------------------------------------------------------------------------------------------|-------------|----------------------|------------------------------|------------------------|
| 12/849,971                                                                                              | 08/04/2010  | Gila FISH            | OSH-2799-US                  | 8890                   |
| 35650 7590 02/23/2012<br>HENRY M. SINAI<br>(IP-PARTNERSHIP)<br>P.O. BOX 669<br>RAANANA, 43350<br>ISRAEL |             |                      | EXAMINER<br>NGUYEN, HIEP VAN |                        |
|                                                                                                         |             |                      | ART UNIT<br>3686             | PAPER NUMBER           |
|                                                                                                         |             |                      | MAIL DATE<br>02/23/2012      | DELIVERY MODE<br>PAPER |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                              |                                      |                                    |  |
|------------------------------|--------------------------------------|------------------------------------|--|
| <b>Office Action Summary</b> | <b>Application No.</b><br>12/849,971 | <b>Applicant(s)</b><br>FISH ET AL. |  |
|                              | <b>Examiner</b><br>HIEP V. NGUYEN    | <b>Art Unit</b><br>3686            |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 04 August 2010.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_\_; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 5) ☒ Claim(s) 1-37 is/are pending in the application.
- 5a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 6) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 7) ☒ Claim(s) 1-37 is/are rejected.
- 8) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 9) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☒ The drawing(s) filed on 08/04/2010 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |                                                                                                            |                                                                                         |
|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____                                                |

### **DETAILED ACTION**

1. Claims 1-37 have been examined.

#### ***Claim Rejections - 35 USC § 101***

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claim 1 is directed to software per se as it recites a sensor/processing/authentication/encryption/memory payment transfer module. According to MPEP 2106 II IV, however, there are four categories of invention: process, machine, article of manufacture or composition of matter. Therefore, as "software" is neither a category of invention nor a subset of one of the categories it does not represent patent eligible subject matter (In re. Nuijten, 84 USPQ2d 1495).

Claim 2-20 are rejected as each depends from Claim 1.

#### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

Art Unit: 3686

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-37 are rejected under 35 U.S.C. 102(b) as being anticipated by Mass et al. (US. 20090062887 hereinafter Mass).

4. With respect to Claim 1, Mass teaches apparatus managing personal and secured data and documentation files stored in the apparatus, comprising:

- a. a sensor module comprising a plurality of biometric sensors for reading a plurality of personal biological identification parameters of the user holding the apparatus, said apparatus being uniquely identified with said user ('887; *Paras 0038-0039; Para 0070; Para 0381* );
- b. a processing module in communication with said sensor module for processing said personal biological identification parameters and for processing and managing the personal and secured data and documentation files associated with said user ('887; *Para 0087*);
- c. an authentication unit in communication with the processing module configured to receive and authenticate the identity of said user by comparing said user's personal biological identification parameters read, by the sensor module and processed by the processing module, with a pre-recorded set of personal biological identification parameters stored in said authentication unit ('887; *Para 0221*);

Art Unit: 3686

- d. an encryption module in communication with said processing module for the encryption plus compression and/or decompression plus decryption of said user's data files ('887; Para 0222);
  - e. a memory module in communication with said processing module and said encryption module for the storage of said user's data and documentation files ('887; Para 0379);
  - f. communication and data connection means in communication with said processing module for connecting said apparatus with an external device.
- wherein access to the user's stored personal data and documentation files associated with said unique user is only enabled after positive authentication of said user's personal biological identification parameters by said authentication unit ('887; Para 0408).

5. With respect to Claim 2, Mass teaches the apparatus according to claim 1, wherein said plurality of biometric sensors continuously read a plurality of personal biological identification parameters associated with said user holding the apparatus and in the event that a change occurs in any of the plurality of personal biological identification parameters, access to the stored personal data files is denied and the operation of the apparatus is completely shut down ('887; Para 0131).

6. With respect to Claim 3, Mass teaches the apparatus according to claim 1, wherein at least one of said plurality of biometric sensors is a life signs detector, said life

Art Unit: 3686

signs detector being configured to measure and record at least one of said user's life sign parameters (*'887; Para 0235: heartbeat signal detector*).

7. With respect to Claim 4, Mass teaches the apparatus according to claim 3, wherein said at least one of said user's life sign parameters is measured by any of a group of life sign indicators including a body pulse rate measurement indicator, a body saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator (*'887; Para 0237*).

8. With respect to Claim 5, Mass teaches the apparatus according to claim 3, wherein, whenever any of the group of life sign indicators detects a critical level, the apparatus is configured to initiate an emergency call to any of a group of registered emergency centers, and send to said registered emergency centers any of a group of data files containing information associated with the user, including the identification data file of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user (*'887; Para 0335*).

9. With respect to Claim 6, Mass teaches the apparatus according to claim 1, further comprising:

an emergency button in communication with said processing module and said communication and data connection means module (*'887; Para 0266*);

wherein on said emergency button being activated, communication is initiated between said apparatus and any of a group of registered emergency centers, said emergency call transmitting any of a group of data files containing information associated with the unique user of said apparatus, including the identification data of said user, the personal medical data file of said user, and location of said user ('887; *Para 0267*).

10. With respect to Claim 7, Mass teaches the apparatus according to claim 1, wherein said apparatus is configured to communicate with any of a group of service providers including banks, credit card companies, clinics, hospitals and medical insurance companies, municipal and utility entities and websites frequently accessed by said user thereby allowing said user to access and manage said user's personal data and documentation files processed stored and provided to said user's apparatus by said group of service providers ('887; *Para 0376: the Examiner interprets transferring patient data between smart card and network system*).

11. With respect to Claim 8, Mass teaches the apparatus according to claim 1, wherein said external device comprises any one of a group including a remote server, a local server, a host computer, voice or data communication means and a cellular phone ('887; *Para 0264; Para 0267*).

12. With respect to Claim 9, Mass teaches the apparatus according to claim 5, wherein said emergency call is initiated via any one of a group of communication means including a secured server, directly via the internet by said apparatus connection and communication means, via the internet through any host computer, via a voice and data communication device and via any cellular phone network ('887; *Para 0071*).

13. With respect to Claim 10, Mass teaches the apparatus according to claim 6, wherein said emergency call is initiated via any one of a group of communication means including a secured server, directly via the internet by said apparatus connection and communication means, via the internet through any host computer, via a voice and data communication device and the cellular phone network ('887; *Paras 0132, 0157, 0267*).

14. With respect to Claim 11, Mass teaches the apparatus according to claim 1, wherein said communication and data connection means comprises at least one of a group of connection and communication devices including any data interface connector attached to a host computer, a Mini USB or compatible industrial data interface connector attached to a cellular phone, a near field wireless communication interface, a magnetic reader interface, and a smart card reader based on a contact-less communication interface using induction or RF communication ('887; *Paras 0132, 0245, 0330*).

Art Unit: 3686

15. With respect to Claim 12, Mass teaches the apparatus according to claim 1, wherein said memory module comprises a detachable and upgradeable miniature PCB board having Flash and/or Nano type solid state read and write memory components with a memory capacity of at least Gigabytes of accessible memory size (*'887; Para 0410: flash storage*).

16. With respect to Claim 13, Mass teaches the apparatus according to claim 1, further comprising:

a magnetic strip element that is only activatable after positive authentication of said user's personal biological identification parameters ();

wherein said magnetic strip is configured to be concealed within the apparatus and on activation configured to extend out of the apparatus for swiping and reading by any of group of devices including a credit card reader, ATM and point of sale magnetic strip reading device (*'887; Para 0376: the Examiner interprets transferring patient data between smart card and network system*).

17. With respect to Claim 14, , Mass teaches the apparatus according to claim 1, further comprising a updating module in communication with the processing module configured to securely update the user's data and documentation files (*'887; Para 0398*).

Art Unit: 3686

18. With respect to Claim 15, Mass teaches the apparatus according to claim 1, further comprising an integrated digital data encoder/decoder and a RF transceiver module in communication with the processing module, said integrated digital data encoder/decoder and a RF transceiver module being configured to communicate with any of a group of external devices including RF operated credit card readers, ATM machines and electronic locks or gate/door opener remotely operated using RFID based techniques (*'887; Paras 0056, 0104, 0197, 0407*).

19. With respect to Claim 16, , Mass teaches the teaches the apparatus according to claim 15, further comprising a supplementary base-station device in communication with said RF transceiver, said base-station device configured to electrically charge the apparatus and simultaneously automatically execute a backup of the internal secured and non-secured stored data of the apparatus (*'887; Para 0157*).

20. With respect to Claim 17, Mass teaches the teaches the apparatus according to claim 11, further comprising an integrated software module that automatically detects the operating system of the computer or cellular phone connected to said apparatus through one of said group of communicating devices through which the apparatus is connected, said computer or cellular phone having keyboard and display units associated therewith, thereby allowing the user to interact with said memory module and with said processing module of said apparatus via said keyboard and display units, whereby said computer or cellular phone is configured to utilize and interact with said

memory module, said processing module and said sensor module of said apparatus  
(*'887; Para 0046*).

21. With respect to Claim 18, Mass teaches the apparatus according to claim 1,  
further comprising a power charging and data backup device in communication with the  
processing module of said apparatus, said device comprising:

- i. a charging and power sub module comprising a charging plug for  
connecting to the mains supply, an AC-DC converter, a power supply unit  
and a rechargeable backup battery (*'887; Para 0189, 0359*).
- ii. an electronic sub module comprising a microprocessor, and a mass  
memory unit (*'887; Para 0406*),
- iii. an activation sub-module comprising an electronic buzzer activator,  
a button connected to said buzzer activator and an RF transmitter  
connected to said electronic buzzer activator, wherein on activating said  
buzzer button, said RF transmitter is configured to transmit a coded signal  
to the apparatus to enable the user to determine the location of the  
apparatus (*'887; Para 0167*);

wherein said charging and power sub module, said electronic sub module and  
said activation sub-module are in communication with each other (*'887; Para 0191*);

wherein the memory module of said apparatus is in communication with the  
mass memory unit of said device, thereby to compare and synchronize the version of

Art Unit: 3686

data stored in the memory module of said apparatus with the version of data stored in mass memory unit of said device (*'887; Para 0247*).

22. With respect to Claim 19, Mass teaches the apparatus according to claim 1, further comprising an integrated GPS module in communication with the processing module to precisely locate the geographical position of the apparatus (*'887; Para 0257*).

23. With respect to Claim 20, Mass teaches the apparatus according to claim 1, further comprising at least one module selected from the group comprising a cellular modem module in communication with the processing module (*'887; Para 0410*);

a flat display and touch screen module in communication with the processing module (*'887; Para 0398*).

24. With respect to Claim 21, Mass teaches a method for managing personal and secured data and documentation files of a plurality of unique users, each one of said plurality of unique users having a personal identification unit uniquely associated with said one user for storing each user's personal data and documentation files, each of said sonal identification units comprising:

a sensor module comprising a plurality of biometric sensors (*'887; Paras 0038-0039; Para 0070; Para 0381* );

a processing module in communication with said sensor module ('887; *Para 0087*);

an authentication unit in communication with the processing module ('887; *Para 0221*);

an encryption module in communication with said processing module ('887; *Para 0222*);

a memory module in communication with said processing module and said encryption module ('887; *Para 0379*);

communication and data connection means in communication with said processing module ('887; *Para 0408*);

the method comprising the steps of:

a. said sensor module reading a plurality of personal biological identification parameters of the user holding the apparatus ('887; *Paras 0038-0039; Para 0070; Para 0381* );

b. said authentication module comparing the personal biological identification parameters of said user with a pre-recorded set of personal biological identification parameters stored in said authentication unit ('887; *Paras 0221-0222*);

c. if said authentication unit positively identifies said user, allowing said user access to said user's personal data and documentation files stored in said memory module and allowing said user to communicate with other communication means through said apparatus ('887; *Paras 0221-0222*).

25. With respect to Claim 22, Mass teaches the method of claim 21 further comprising the steps of:

said biometric sensors continuously reading a plurality of personal biological identification parameters of said user holding the apparatus and in the event that a change occurs in any of the plurality of personal biological identification parameters, denying access to the stored personal data files and completely shutting down the operation of said apparatus ('887; *Para 0131*).

26. With respect to Claim 23, Mass teaches the method of claim 21, wherein at least one of said plurality of biometric sensors is a life signs detector, configured to measure and record at least one of a group of life sign indicators including a body pulse rate measurement indicator, a body O<sub>2</sub> saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator, the method further comprising the steps of:

initiating an emergency call to any of a group of registered emergency centers, whenever any of the life sign indicators detects a critical level ();

wherein said emergency call transmits any of a group of data files information associated with the user, including identification of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user ('887; *Para 0131*)).

27. With respect to Claim 24, Mass teaches the method of claim 21, wherein said apparatus further comprises an emergency button in communication with said processing module and said communication and data connection means module, the method further comprising the steps of:

when said emergency button is activated, communication is initiated between said apparatus and any of a group of registered emergency centers ('887; *Paras 0335-0036*);

said emergency call transmitting any of a group of data files information associated with the user, including identification of the user, the personal medical data file of the user, and location of the user ('887; *Para 0337*).

28. With respect to Claim 25, Mass teaches the method of claim 21, further comprising the step of:

communicating, via any one of a group of communication means, with any of a group of service providers including banks, credit card companies, clinics, hospitals and medical insurance companies, municipal and utility entities and websites frequently accessed by said user thereby allowing said user to access and manage said user's personal data and documentation files stored by said group of service providers ('887; *Para 0337*).

29. With respect to Claim 26, Mass teaches the method of claim 21, wherein said apparatus further comprises a magnetic strip element, the method further comprising

the step of: after positive authentication of said user's personal biological identification parameters, activating said magnetic strip thereby allowing said magnetic strip to be read by any of group of devices including a credit card reader, ATM, and point of sale magnetic strip reading device ('887; *Para 0376*).

30. With respect to Claim 27, Mass teaches the method of claim 21, wherein said apparatus further comprises a power charging and data backup device, said device comprising a charging and power sub module, an electronic sub module and a mass memory solid- state memory unit, the method further comprising the steps of:

comparing the memory content of said apparatus memory module to the memory content of said device mass memory solid- state memory unit;

if the memory module of the apparatus lacks data, updating the apparatus memory with the last version of the data stored within said memory sub-module ();

if said solid-state memory unit of said device lacks data, updating the solid-state memory unit of said device with the last version of the data stored within said apparatus memory sub-module ('887; *Para 0376: the Examiner interprets transferring patient data between smart card and network system*).

31. With respect to Claim 28, Mass teaches the method of claim 21, wherein each of said plurality of unique users is in communication with a system manager, said system manager managing a remote centralized data communication storage and management system of said plurality of unique users, the method further comprising the steps of:

a. said system manager registering each unique user and storing the personal ID data file of each unique user in a memory sub-system connected to said centralized system ('887; *Para 0220*);

b. said registration further includes the step wherein said system manager generates for each system user N pairs of two different randomly selected characters strings, each of said strings is a combination of n alphanumeric characters in length ('887; *Para 0220*);

c. said system manager storing said N pairs in said system memory sub-system and sending said n characters strings pairs to be stored in said unique user personal identification unit memory module ('887; *Para 0220*);

d. said personal identification unit generating a secret access code of L alphanumeric characters to be further stored in said system memory within a special partition containing the list of said secret access codes for said plurality of unique users without assigning any identification or link between the associated users to his registered secret access code ('887; *Para 0220-0222*).

32. Referring to Claim 29, XXXX teaches the method of claim 28, wherein after registration and upon normal initiation of communication between said system manager and each unique user, said system manager further communicating with said unique user and first comparing said unique user's ID data file and said personal identification unit unique embedded characterizing serial number stored in the unique user's personal

identification unit with the corresponding user's ID and personal identification data stored in said memory sub-system;

if the two sets of identification data match;

i. said system manager sending a first string of said stored N strings of coded alphanumeric data, to said user's personal identification unit;

ii. said user personal identification unit responding with the second matching string from the same stored pair of coded alphanumeric data uniquely associated with said user personal identification unit: and

iii. said system manager comparing the received second string of coded alphanumeric data with a second string of coded alphanumeric data pre-stored in the memory sub-system;

iv. said system manager comparing for consecutive M out of N times the received additional different strings of coded alphanumeric data pre-stored in the memory of said personal identification unit associated with said unique user with the additional strings of coded alphanumeric data pre-stored in the memory of sub-system ;

v. if all M strings of coded alphanumeric data match, then said system manager declares authenticating of said unique user and permitting said unique user access to said system (*'887; Paras 0220-0222: the Examiner interprets the encryption including public and private keys*).

33. With respect to Claim 30, Mass teaches the method of claim 29, wherein after said user gains access to said system, said user chooses either to work with the

unsecured parts of said system memory or to gain access to said user secured personal data stored in said system memory by sending from said personal identification unit said secret access code that permits each such user sole access to his private secured memory partition in said system memory.

34.

if the two sets of identification data match;

i. said system manager sending a first string of said stored N strings of coded alphanumeric data, to said user's personal identification unit;

ii. said user personal identification unit responding with the second matching string from the same stored pair of coded alphanumeric data uniquely associated with said user personal identification unit: and

iii. said system manager comparing the received second string of coded alphanumeric data with a second string of coded alphanumeric data pre-stored in the memory sub-system ;

iv. said system manager comparing for consecutive M out of N times the received additional different strings of coded alphanumeric data pre-stored in the memory of said personal identification unit associated with said unique user with the additional strings of coded alphanumeric data pre-stored in the memory of sub-system;

v. if all M strings of coded alphanumeric data match, then said system manager declares authenticating of said unique user and permitting said unique user access to said system ('887; *Paras 0220-0222: the Examiner interprets the encryption including public and private keys*).

35. With respect to Claim 31, Mass teaches the method of claim 28, further comprising the steps of:

after the step of authenticating, said system manager connecting the personal identification unit of said unique user with any of a group of emergency centers or service providers registered with said system manager at the request of said user personal identification unit ('887; Paras 0054-0055);

in the case of a medical emergency call initiated by said personal identification unit, transferring the user's updated medical data to the emergency center ('887; Para 0121).

36. With respect to Claim 32, Mass teaches a system for managing personal and secured data and documentation files of a plurality of unique users, the system comprising:

a. a system manager for managing and updating personal data of said system plurality of unique users and for communicating with each of said plurality of unique users ('887; Paras 0076, 0163);

b. a memory sub-system connected to said system manager to store updated personal data of each of said plurality of unique users ('887; Paras 0076, 0163);

c. a plurality of personal identification units, each of said personal identification units being associated with a unique user, each unique user being registered with said

Art Unit: 3686

system manager and the personal ID data file of each unique user being stored in said memory sub-system ('887; *Paras 0038-0039; Para 0070; Para 0381* );

d. a plurality of computer hosts and cellular phones in communication with said system manager, enabling the direct connection by said system manager with said plurality of unique users through their corresponding personal identification unit ('887; *Figs. 1A-B*);

e. a plurality of registered emergency centers and a plurality of registered service providers in communication with said system manager, said plurality of service providers including banks, credit card companies, insurance companies, clinics, hospitals and medical insurance companies, government, municipal and utility entities and selected websites frequently accessed by said plurality of users ('887; *Para 0163*);

wherein said system manager's access to and communication with the personal data and documentation files stored in said personal identification units associated with each said unique user and to the personal data and documentation files stored by said group of service providers is only enabled after positive authentication of said unique user's personal biological identification parameters by said authentication unit ('887; *Para 0054*).

37. With respect to Claim 33, Mass teaches the system according to claim 32, wherein each of said plurality of personal identification units comprises :

i. a sensor module comprising a plurality of biometric sensors for reading a plurality of personal biological identification parameters of the user holding the of

Art Unit: 3686

personal identification units, said of personal identification units being uniquely identified with said user ('887; *Paras 0038-0039; Para 0070; Para 0381* )

ii. a processing module in communication with said sensor module for processing said personal biological identification parameters and for processing and managing the personal and secured data and documentation files associated with said user ('887; *Para 0087*);

iii. an authentication unit in communication with the processing module configured to receive and authenticate the identity of said user by comparing said user's personal biological identification parameters read, by the sensor module and processed by the processing module, with a pre-recorded set of personal biological identification parameters stored in said authentication unit ('887; *Para 0221*);;

iv. an encryption module in communication with said processing module for the encryption plus compression and/or decompression plus decryption of said user's data files ('887; *Para 0222*);

v. a memory module in communication with said processing module and said encryption module for the storage of said user's data and documentation files ('887; *Para 0379*);

vi communication and data connection means in communication with said processing module for connecting said of personal identification units with said system manager and plurality of service providers ('887; *Para 0408*).

38. With respect to Claim 34, Mass teaches the system according to claim 33, wherein said system manager is configured:

to communicate with said personal identification units to compare the user's ID data file stored in the unique user's personal identification units with the corresponding identification data stored in said memory sub-system, and if the two sets of identification data match, then said system manager is configured to initiate a further level of security identification prior to full communication and data updating capability being enabled between said system manager and said user personal identification unit ('887; Para 0103);

wherein said further level of security identification comprises said system manager sending a first string of coded alphanumeric data uniquely associated with said user personal identification unit to said user personal identification unit, said personal identification unit responding with a second string of coded alphanumeric data uniquely associated with said user personal identification unit, and said system manager verifying the received second string of coded alphanumeric data with a second string of coded alphanumeric data pre-stored in the memory sub-system ('887; Para 0104);

said system manager comparing for full matching for N consecutive times received additional different strings of coded alphanumeric data pre-stored in the memory of said personal identification unit associated with said unique user with counter generated additional strings of coded alphanumeric data pre-stored in the memory of sub-system ('887; Para 0104-0105).

39. With respect to Claim 35, Mass teaches the system according to claim 33, wherein said plurality of biometric sensors continuously read a plurality of personal biological identification parameters associated with the user holding his unique personal identification units and in the event that a change occurs in any of the plurality of personal biological identification parameters, access to the stored personal data files is denied and the operation of said identification units is completely shut down ('887; *Para 0131*).

40. With respect to Claim 36, Mass teaches the system according to claim 33, wherein each personal identification unit further comprises an emergency button in communication with said processing module and said communication and data connection means module ('887; *Para 0266*);

wherein at least one of said plurality of biometric sensors is a life signs detector, said life signs detector being configured to measure and record at least one of said user's life sign parameters ('887; *Para 0235: heartbeat signal detector*);

wherein said at least one of said user's life sign parameters is measured by any of a group of life sign indicators including a body pulse rate measurement indicator, a body O2 saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator ('887; *Para 0237*).; wherein the personal identification unit is configured to initiate an emergency call to any of said plurality of registered emergency centers,

whenever said emergency button is activated or whenever any of the group of life sign indicators detects a critical level ('887; *Para 0267*);

wherein the personal identification unit is configured to transmit any of a group of data files containing information associated with the user, including the identification data of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user ('887; *Para 0267*);.

41. With respect to Claim 37, Mass teaches the system of claim 36, wherein said system, further comprises:

a computerized call center configured to receive phone calls or emergency voice and data messages from any of said plurality of registered emergency centers and a plurality of registered service providers and to communicate with any of said plurality of cellular phone and host computers ('887; *Para 0337*);

wherein said call center is configured to communicate the user's location coordinates to an emergency rescue team and simultaneously said call center is configured to communicate with any of said plurality of registered emergency centers and service providers to receive said user's updated medical data and to transfer said data to the user's personal identification unit ('887; *Para 0337*).

### ***Conclusion***

42. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Bui et al., US. 6,830,549, Method and Apparatus for providing patient case;

Khanuja et al., US. 7,448,996, Method and Apparatus for remotely monitoring the condition of a patient.

43. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HIEP V. NGUYEN whose telephone number is (571) 270-5211. The examiner can normally be reached on Monday through Friday between 8:00AM and 5:00PM.

44. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry O'Connor can be reached on 5712726787. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

45. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or (571) 272-1000.

Art Unit: 3686

46. Official replies to this Office action may now be submitted electronically by registered users of the EFS-Web system. Information on EFS-Web tools is available on the Internet at: <http://www.uspto.gov/patents/process/file/efs/guidance/index.jsp>. An EFS-Web Quick-Start Guide is available at: <http://www.uspto.gov/ebs/portal/efs/quick-start.pdf>.

47. Alternatively, official replies to this Office action may still be submitted by any **one** of fax, mail, or hand delivery. **Faxed replies should be directed to the central fax at (571) 273-8300.** Mailed replies should be addressed to "Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450." Hand delivered replies should be delivered to the "Customer Service Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314."

/HIEP V NGUYEN/  
Examiner, Art Unit 3686

|                                   |                                       |                                                           |             |
|-----------------------------------|---------------------------------------|-----------------------------------------------------------|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>12/849,971 | Applicant(s)/Patent Under<br>Reexamination<br>FISH ET AL. |             |
|                                   | Examiner<br>HIEP V. NGUYEN            | Art Unit<br>3686                                          | Page 1 of 1 |

**U.S. PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name           | Classification |
|---|---|--------------------------------------------------|-----------------|----------------|----------------|
| * | A | US-2009/0062887                                  | 03-2009         | Mass et al.    | 607/60         |
| * | B | US-7,448,996                                     | 11-2008         | Khanuja et al. | 600/300        |
| * | C | US-6,830,549                                     | 12-2004         | Bui et al.     | 600/549        |
|   | D | US-                                              |                 |                |                |
|   | E | US-                                              |                 |                |                |
|   | F | US-                                              |                 |                |                |
|   | G | US-                                              |                 |                |                |
|   | H | US-                                              |                 |                |                |
|   | I | US-                                              |                 |                |                |
|   | J | US-                                              |                 |                |                |
|   | K | US-                                              |                 |                |                |
|   | L | US-                                              |                 |                |                |
|   | M | US-                                              |                 |                |                |

**FOREIGN PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | Classification |
|---|---|--------------------------------------------------|-----------------|---------|------|----------------|
|   | N |                                                  |                 |         |      |                |
|   | O |                                                  |                 |         |      |                |
|   | P |                                                  |                 |         |      |                |
|   | Q |                                                  |                 |         |      |                |
|   | R |                                                  |                 |         |      |                |
|   | S |                                                  |                 |         |      |                |
|   | T |                                                  |                 |         |      |                |

**NON-PATENT DOCUMENTS**

| * |   | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|-------------------------------------------------------------------------------------------|
|   | U |                                                                                           |
|   | V |                                                                                           |
|   | W |                                                                                           |
|   | X |                                                                                           |

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits    | Search Query                                                                      | DBs                                                               | Default Operator | Plurals | Time Stamp          |
|-------|---------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------|---------|---------------------|
| L1    | 410091  | biometric or physiological                                                        | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2012/02/22<br>13:54 |
| L2    | 5904178 | parameter or value                                                                | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2012/02/22<br>13:55 |
| L3    | 258528  | authentication or<br>authenticate                                                 | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2012/02/22<br>13:55 |
| L4    | 229175  | encryption or encrypted                                                           | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2012/02/22<br>13:56 |
| L5    | 9896    | 1 and 2 and 3 and 4                                                               | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2012/02/22<br>13:56 |
| L6    | 2393287 | sensor                                                                            | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2012/02/22<br>13:56 |
| L7    | 4551    | 5 and 6                                                                           | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2012/02/22<br>13:56 |
| L8    | 1268225 | identification or fingerprint                                                     | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2012/02/22<br>13:57 |
| L9    | 4171    | 7 and 8                                                                           | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2012/02/22<br>13:57 |
| L10   | 5192    | ((pulse adj rate) or heat<br>or saturation<br>or respiration) near<br>measurement | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2012/02/22<br>13:58 |
| L11   | 26      | 9 and 10                                                                          | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2012/02/22<br>13:58 |
| L12   | 318495  | emergency                                                                         | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR               | OFF     | 2012/02/22<br>13:59 |
|       |         |                                                                                   |                                                                   |                  |         |                     |

|     |      |                       |                                                                   |    |     |                      |
|-----|------|-----------------------|-------------------------------------------------------------------|----|-----|----------------------|
| L13 | 21   | 11 and 12             | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2012/02/22:<br>13:59 |
| L14 | 1670 | emergency near center | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2012/02/22:<br>13:59 |
| L15 | 1    | 13 and 14             | US-PGPUB; USPAT;<br>USOCR; FPRS; EPO;<br>JPO; DERWENT;<br>IBM_TDB | OR | OFF | 2012/02/22:<br>13:59 |

**2/ 22/ 2012 2:00:04 PM**

|                                                                                                                    |                                            |                                                               |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| <b><i>Index of Claims</i></b><br> | <b>Application/Control No.</b><br>12849971 | <b>Applicant(s)/Patent Under Reexamination</b><br>FISH ET AL. |
|                                                                                                                    | <b>Examiner</b><br>HIEP V NGUYEN           | <b>Art Unit</b><br>3686                                       |

|   |                 |   |                   |   |                     |   |                 |
|---|-----------------|---|-------------------|---|---------------------|---|-----------------|
| ✓ | <b>Rejected</b> | - | <b>Cancelled</b>  | N | <b>Non-Elected</b>  | A | <b>Appeal</b>   |
| = | <b>Allowed</b>  | ÷ | <b>Restricted</b> | I | <b>Interference</b> | O | <b>Objected</b> |

☐ Claims renumbered in the same order as presented by applicant
 ☐ CPA
 ☐ T.D.
 ☐ R.1.47

| CLAIM |          | DATE       |  |  |  |  |  |  |  |  |  |
|-------|----------|------------|--|--|--|--|--|--|--|--|--|
| Final | Original | 02/22/2012 |  |  |  |  |  |  |  |  |  |
|       | 1        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 2        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 3        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 4        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 5        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 6        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 7        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 8        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 9        | ✓          |  |  |  |  |  |  |  |  |  |
|       | 10       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 11       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 12       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 13       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 14       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 15       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 16       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 17       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 18       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 19       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 20       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 21       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 22       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 23       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 24       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 25       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 26       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 27       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 28       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 29       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 30       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 31       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 32       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 33       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 34       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 35       | ✓          |  |  |  |  |  |  |  |  |  |
|       | 36       | ✓          |  |  |  |  |  |  |  |  |  |

|                                                                                                                    |                                            |                                                               |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| <b><i>Index of Claims</i></b><br> | <b>Application/Control No.</b><br>12849971 | <b>Applicant(s)/Patent Under Reexamination</b><br>FISH ET AL. |
|                                                                                                                    | <b>Examiner</b><br>HIEP V NGUYEN           | <b>Art Unit</b><br>3686                                       |

|   |                 |   |                   |   |                     |   |                 |
|---|-----------------|---|-------------------|---|---------------------|---|-----------------|
| ✓ | <b>Rejected</b> | - | <b>Cancelled</b>  | N | <b>Non-Elected</b>  | A | <b>Appeal</b>   |
| = | <b>Allowed</b>  | ÷ | <b>Restricted</b> | I | <b>Interference</b> | O | <b>Objected</b> |

|                                                                                                                                                                                   |          |             |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------|--|--|--|--|--|--|--|--|
| <input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47 |          |             |  |  |  |  |  |  |  |  |
| <b>CLAIM</b>                                                                                                                                                                      |          | <b>DATE</b> |  |  |  |  |  |  |  |  |
| Final                                                                                                                                                                             | Original | 02/22/2012  |  |  |  |  |  |  |  |  |
|                                                                                                                                                                                   | 37       | ✓           |  |  |  |  |  |  |  |  |

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|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------|
| <b><i>Search Notes</i></b><br><br> | <b>Application/Control No.</b><br><br>12849971 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>FISH ET AL. |
|                                                                                                                     | <b>Examiner</b><br><br>HIEP V NGUYEN           | <b>Art Unit</b><br><br>3686                                       |

|                 |                 |             |                 |
|-----------------|-----------------|-------------|-----------------|
| <b>SEARCHED</b> |                 |             |                 |
| <b>Class</b>    | <b>Subclass</b> | <b>Date</b> | <b>Examiner</b> |
| 705             | 1-3             | 2/22/2012   | HVN             |

|                                          |             |                 |
|------------------------------------------|-------------|-----------------|
| <b>SEARCH NOTES</b>                      |             |                 |
| <b>Search Notes</b>                      | <b>Date</b> | <b>Examiner</b> |
| Search EAST: See attached search history | 2/22/2012   | HVN             |

|                            |                 |             |                 |
|----------------------------|-----------------|-------------|-----------------|
| <b>INTERFERENCE SEARCH</b> |                 |             |                 |
| <b>Class</b>               | <b>Subclass</b> | <b>Date</b> | <b>Examiner</b> |
|                            |                 |             |                 |

|                                     |  |
|-------------------------------------|--|
| /H.V.N./<br>Examiner, Art Unit 3686 |  |
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## UNITED STATES PATENT AND TRADEMARK OFFICE

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## BIB DATA SHEET

CONFIRMATION NO. 8890

|                                                                                                                                                                                                                                                                                                                        |                                                                                                                   |                                                                 |                                   |                                                              |                           |                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------|---------------------------|--------------------------------|
| <b>SERIAL NUMBER</b><br>12/849,971                                                                                                                                                                                                                                                                                     | <b>FILING or 371(c) DATE</b><br>08/04/2010<br><b>RULE</b>                                                         | <b>CLASS</b><br>705                                             | <b>GROUP ART UNIT</b><br>3686     | <b>ATTORNEY DOCKET NO.</b><br>OSH-2799-US                    |                           |                                |
| <b>APPLICANTS</b><br>Gila FISH, Mevasseret Zion, ISRAEL;<br>Avner KORMAN, Herzlia, ISRAEL;<br><b>** CONTINUING DATA *****</b><br>This appln claims benefit of 61/313,145 03/12/2010<br><b>** FOREIGN APPLICATIONS *****</b><br><b>** IF REQUIRED, FOREIGN FILING LICENSE GRANTED *** SMALL ENTITY **</b><br>08/11/2010 |                                                                                                                   |                                                                 |                                   |                                                              |                           |                                |
| Foreign Priority claimed <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>35 USC 119(a-d) conditions met <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Verified and Acknowledged <u>/HIEP VAN NGUYEN/</u><br>Examiner's Signature                                       |                                                                                                                   | <input type="checkbox"/> Met after Allowance<br>hvn<br>Initials | <b>STATE OR COUNTRY</b><br>ISRAEL | <b>SHEETS DRAWINGS</b><br>9                                  | <b>TOTAL CLAIMS</b><br>37 | <b>INDEPENDENT CLAIMS</b><br>3 |
| <b>ADDRESS</b><br>HENRY M. SINAI<br>(IP-PARTNERSHIP)<br>P.O. BOX 669<br>RAANANA, 43350<br>ISRAEL                                                                                                                                                                                                                       |                                                                                                                   |                                                                 |                                   |                                                              |                           |                                |
| <b>TITLE</b><br>SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM                                                                                                                                                                                                                                                   |                                                                                                                   |                                                                 |                                   |                                                              |                           |                                |
| <b>FILING FEE RECEIVED</b><br>904                                                                                                                                                                                                                                                                                      | FEES: Authority has been given in Paper<br>No. _____ to charge/credit DEPOSIT ACCOUNT<br>No. _____ for following: |                                                                 |                                   | <input type="checkbox"/> All Fees                            |                           |                                |
|                                                                                                                                                                                                                                                                                                                        |                                                                                                                   |                                                                 |                                   | <input type="checkbox"/> 1.16 Fees (Filing)                  |                           |                                |
|                                                                                                                                                                                                                                                                                                                        |                                                                                                                   |                                                                 |                                   | <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) |                           |                                |
|                                                                                                                                                                                                                                                                                                                        |                                                                                                                   |                                                                 |                                   | <input type="checkbox"/> 1.18 Fees (Issue)                   |                           |                                |
|                                                                                                                                                                                                                                                                                                                        |                                                                                                                   |                                                                 |                                   | <input type="checkbox"/> Other _____                         |                           |                                |
|                                                                                                                                                                                                                                                                                                                        |                                                                                                                   |                                                                 | <input type="checkbox"/> Credit   |                                                              |                           |                                |

Ser. No. 12/849,971  
Art Unit 3686  
Amendment dated June 17, 2012  
Reply to Office Action of February 23, 2012

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Patent Application**

**Inventor(s)** : Gila FISH et al  
**Serial No.** : 12/849,971  
**Docket No.** : OSH-2799-US  
**Filed** : August 4, 2010  
**Title** : A SECURED PERSONAL DATA HANDLING AND  
MANAGEMENT SYSTEM  
**Examiner** : Hiep Van NGUYEN  
**Art Unit** : 3765

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO OFFICE ACTION AND AMENDMENT**

Sir:

In response to the Office Action dated February 23, 2012, we respectfully submit the following response with an amended listing of claims.

Please amend the above-identified application as follows:

**Amendments to the Claims** are reflected in the listing of claims which begins on page 2 of this paper.

**Remarks/Arguments** begin on page 17 of this paper

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended) Apparatus for storing and managing personal and secured data and documentation files ~~stored in the apparatus associated with a specific user~~, comprising:

~~a sensor module comprising~~ a plurality of biometric sensors for reading a plurality of personal biological identification parameters of the user holding the apparatus, said plurality of biometric sensors being integrated within the apparatus ~~said apparatus being uniquely identified with said user~~;

a first storage unit for the storage of said user's data and documentation files;

~~a processing module in communication with said sensor module for processing said personal biological identification parameters and for processing and managing the personal and secured data and documentation files associated with said user;~~

an authentication unit comprising a second storage unit, in communication with the processing module configured to receive and authenticate the identity of said user by comparing said user's personal biological identification parameters read, by the sensor module and processed by the processing module, with said second storage unit configured to store a pre-recorded set of personal biological identification parameters uniquely associated with the specific user stored in said authentication unit, wherein said authentication unit is configured to compare the plurality of personal biological identification parameters of the user holding the apparatus with the pre-recorded set of personal biological identification parameters stored in said second storage unit;

a processor in communication with said plurality of biometric sensors, said first storage unit and said authentication unit;

~~an encryption module in communication with said processing module for the encryption plus compression and/or decompression plus decryption of said user's data files;~~

~~memory module in communication with said processing module and said encryption module for the storage of said user's data and documentation files;~~

~~communication and data connection means in communication with said processing module for connecting said apparatus with an external device.~~

wherein access to the ~~user's stored~~ personal data and documentation files stored in said first storage unit ~~associated with said unique user~~ is only enabled after said authentication unit positively matches each of the plurality authentication of said user's personal biological identification parameters of the user holding the apparatus with the pre-recorded set of personal biological identification parameters stored in said second storage unit ~~by said authentication unit.~~

2. (currently amended) The apparatus according to claim 1, wherein said plurality of biometric sensors are configured to continuously read a plurality of personal biological identification parameters associated with said user holding the apparatus and in the event that a change occurs in any of the plurality of personal biological identification parameters, access to the stored personal data files is denied and the operation of the apparatus is completely shut down.

3. (previously presented) The apparatus according to claim 1, wherein at least one of said plurality of biometric sensors is a life signs detector, said life signs detector being configured to measure and record at least one of said user's life sign parameters.

4. (previously presented) The apparatus according to claim 3, wherein said at least one of said user's life sign parameters is measured by any of a group of life sign indicators including a body pulse rate measurement indicator, a body O<sub>2</sub> saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator.

5. (previously presented) The apparatus according to claim 3, wherein, whenever any of the group of life sign indicators detects a critical level, the apparatus is configured to initiate an emergency call to any of a group of registered emergency centers, and send to said registered emergency centers any of a group of data files containing information associated with the user, including the identification data file of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user.

6. (currently amended) The apparatus according to claim 1, further comprising:

communication and data connection means for communicating with an external device, said communication and data connection means are controlled by and in communication with said processor;

an emergency button in communication with said processor and said communication and data connection means module;

wherein on said emergency button being activated, communication is initiated between said apparatus and any of a group of registered emergency centers, said emergency call transmitting any of a group of data files containing information associated with the unique user of said apparatus, including the identification data of said user, the personal medical data file of said user, and location of said user.

7. (currently amended) The apparatus according to claim ~~[[1]]~~6, wherein said apparatus is configured to communicate with any of a group of service providers, said group of service providers including banks, credit card companies, clinics, hospitals and medical insurance companies, municipal and utility entities and websites frequently accessed by said user; thereby allowing said user to access and manage ~~said user's~~ personal data and documentation files, associated with said user; ~~processed stored and provided to said user's apparatus by said group of service providers.~~

8. (currently amended) The apparatus according to claim ~~[[1]]~~6, wherein said external device comprises any one of a group including a remote server, a local server, a host computer, voice or data communication means and a cellular phone.

9. (previously presented) The apparatus according to claim 5, wherein said emergency call is initiated via any one of a group of communication means including a secured server, directly via the internet by said apparatus connection and communication means, via the internet through any host computer, via a voice and data communication device and via any cellular phone network.

10. (previously presented) The apparatus according to claim 6, wherein said emergency call is initiated via any one of a group of communication means including a secured server, directly via the internet by said apparatus connection and communication means, via the internet through any host computer, via a voice and data communication device and the cellular phone network.

11. (currently amended) The apparatus according to claim ~~[[1]]~~6, wherein said communication and data connection means comprises at least one of a group of connection and communication devices including ~~any~~ a data interface connector attached to a host computer, a Mini USB, a ~~or~~ compatible industrial data interface connector attached to a cellular phone, a near field wireless communication interface, a Bluetooth communication interface, a magnetic reader interface, and a smart card reader based on a contact-less communication interface using induction or RF communication.

12. (currently amended) The apparatus according to claim 1, wherein said ~~memory module~~ first storage unit comprises a detachable and upgradeable miniature PCB board having Flash and/or Nano type solid state read and write memory components with a memory capacity of at least 10 Gigabytes of accessible memory size.

13. (previously presented) The apparatus according to claim 1, further comprising:

a magnetic strip element that is only activatable after positive authentication of said user's personal biological identification parameters; and

wherein said magnetic strip is configured to be concealed within the apparatus and on activation configured to extend out of the apparatus for swiping and reading by any of group of devices including a credit card reader, ATM and point of sale magnetic strip reading device.

14. (currently amended) The apparatus according to claim 1, ~~further comprising a updating module in communication with~~ wherein the processor is configured to securely update the user's data and documentation files.

15. (currently amended) The apparatus according to claim 1, further comprising an integrated digital data encoder/decoder and a RF transceiver module in communication with the processor, said integrated digital data encoder/decoder and a RF transceiver ~~module~~ being configured to communicate with any of a group of external devices including RF operated credit card readers, ATM machines, and remotely operated electronic locks ~~or gate/door~~ gates and doors opener ~~remotely operated~~ using RFID based techniques.

16. (previously presented) The apparatus according to claim 15, further comprising a supplementary base-station device in communication with said RF transceiver, said base-station device configured to electrically charge the apparatus and simultaneously automatically execute a backup of the internal secured and non-secured stored data of the apparatus.

17. (currently amended) The apparatus according to claim 6, further comprising an integrated software module that automatically detects the operating system of the computer or cellular phone connected to said apparatus through one of said group of communicating devices through which the apparatus is connected, said computer or cellular phone having keyboard and display units associated therewith, thereby allowing the user to interact with said first storage unit and with said processor of said apparatus via said keyboard and display units, whereby said computer or cellular phone is configured to utilize and interact with said memory module, said processor and said sensor module of said apparatus.

18. (currently amended) The apparatus according to claim 1, further comprising a power charging and data backup device in communication with the processor of said apparatus, said device comprising;

- i. ~~a charging and power sub module comprising~~ a charging plug for connecting to the mains supply, an AC-DC converter, a power supply unit and a rechargeable backup battery[.];
- ii. ~~an electronic sub module comprising~~ a micro processor[.] and a mass memory unit[.];
- iii. ~~an activation sub module comprising~~ an electronic buzzer activator, a button connected to said buzzer activator and an RF transmitter connected to said electronic buzzer activator, wherein on activating said buzzer button, said RF transmitter is configured to transmit a coded signal to the apparatus to enable the user to determine the location of the apparatus; and  
~~wherein said charging and power sub module, said electronic sub module and said activation sub module are in communication with each other; and~~  
wherein the first storage unit of said apparatus is in communication with the mass memory unit of said device, thereby to compare and synchronize the version of data stored in the first storage unit of said apparatus with the version of data stored in mass memory unit of said device.

19. (currently amended) The apparatus according to claim 1, further comprising an integrated GPS module in communication with the processor to precisely locate the geographical position of the apparatus.

20. (currently amended) The apparatus according to claim 1, further comprising at least one ~~module selected from the of a group of units including comprising~~ a cellular modem ~~module in communication with the~~ and a flat display and touch screen ~~module~~ in communication with the processor.

21. (currently amended) A method for managing personal and secured data and documentation files of a plurality of unique users, each one of said plurality of unique users having a personal identification unit uniquely associated with said one user for storing each user's personal data and documentation files, each of said personal identification units comprising:

~~a sensor module comprising~~ a plurality of biometric sensors integrated within the personal identification unit;

a processor in communication with said ~~sensor module~~ plurality of biometric sensors;

an authentication unit in communication with the processor;

an encryption ~~module~~ unit in communication with said processor;

a first storage unit in communication with said processor and said encryption ~~module~~ unit; and

communication and data connection means in communication with said processor;

the method comprising the steps of:

a. ~~said sensor module~~ the plurality of biometric sensors reading a plurality of personal biological identification parameters of the user holding the personal identification unit; and

b. said authentication ~~module~~ unit comparing each of the personal biological identification parameters of said user with a pre-recorded set of personal biological identification parameters stored in said authentication unit; and

c. if said authentication unit positively identifies said user, allowing said user access to said user's personal data and documentation files stored in said first storage unit and allowing said user to communicate with other communication means through said personal identification unit.

22. (previously presented) The method of claim 21 further comprising the steps of:

said biometric sensors continuously reading a plurality of personal biological identification parameters of said user holding the apparatus; and  
in the event that a change occurs in any of the plurality of personal biological identification parameters, denying access to the stored personal data files and completely shutting down the operation of said apparatus.

23. (previously presented) The method of claim 21, wherein at least one of said plurality of biometric sensors is a life signs detector, configured to measure and record at least one of a group of life sign indicators including a body pulse rate measurement indicator, a body O2 saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator, the method further comprising the steps of:

initiating an emergency call to any of a group of registered emergency centers, whenever any of the life sign indicators detects a critical level; and  
wherein said emergency call transmits any of a group of data files information associated with the user, including identification of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user.

24. (currently amended) The method of claim 21, wherein said apparatus further comprises an emergency button in communication with said processor and said communication and data connection means ~~module~~, the method further comprising the steps of:

when said emergency button is activated, communication is initiated between said apparatus and any of a group of registered emergency centers;  
and  
said emergency call transmitting any of a group of data files information associated with the user, including identification of the user, the personal medical data file of the user, and location of the user.

25. (previously presented) The method of claim 21, further comprising the step of:  
communicating, via any one of a group of communication means, with any of a group of service providers including banks, credit card companies,

clinics, hospitals and medical insurance companies, municipal and utility entities and websites frequently accessed by said user thereby allowing said user to access and manage said user's personal data and documentation files stored by said group of service providers.

26. (previously presented) The method of claim 21, wherein said apparatus further comprises a magnetic strip element, the method further comprising the step of:

after positive authentication of said user's personal biological identification parameters, activating said magnetic strip thereby allowing said magnetic strip to be read by any of group of devices including a credit card reader, ATM, and point of sale magnetic strip reading device.

27. (currently amended) The method of claim 21, wherein said apparatus further comprises a power charging and data backup device, said device comprising a charging and power ~~sub-module unit~~, an electronic sub ~~module unit~~ and a mass memory solid-state memory unit, the method further comprising the steps of:

comparing the memory content of said apparatus first storage unit to the memory content of said ~~device~~-mass memory solid-state memory unit; and

if the first storage unit of the apparatus lacks data, updating the ~~apparatus memory~~ first storage unit with the last version of the data stored within said ~~memory sub-module~~ the solid-state memory unit; and

if said solid-state memory unit of said device lacks data, updating the solid-state memory unit of said device with the last version of the data stored within said apparatus ~~memory sub-module~~ the solid-state memory unit.

28. (previously presented) The method of claim 21, wherein each of said plurality of unique users is in communication with a system manager, said system manager managing a remote centralized data communication storage and management system of said plurality of unique users, the method further comprising the steps of:

a. said system manager registering each unique user and storing the personal ID data file of each unique user in a memory sub-system connected to said centralized system; and

b. said registration further includes the step wherein said system manager generates for each system user N pairs of two different randomly selected

characters strings, each of said strings is a combination of n alphanumeric characters in length; and

c. said system manager storing said N pairs in said system memory sub-system and sending said n characters strings pairs to be stored in said unique user personal identification unit memory module; and

d. said personal identification unit generating a secret access code of L alphanumeric characters to be further stored in said system memory within a special partition containing the list of said secret access codes for said plurality of unique users without assigning any identification or link between the associated users to his registered secret access code.

29. (previously presented) The method of claim 28, wherein after registration and upon normal initiation of communication between said system manager and each unique user, said system manager further communicating with said unique user and first comparing said unique user's ID data file and said personal identification unit unique embedded characterizing serial number stored in the unique user's personal identification unit with the corresponding user's ID and personal identification data stored in said memory sub-system; and

if the two sets of identification data match;

i. said system manager sending a first string of said stored N strings of coded alphanumeric data, to said user's personal identification unit; and

ii. said user personal identification unit responding with the second matching string from the same stored pair of coded alphanumeric data uniquely associated with said user personal identification unit; and

iii. said system manager comparing the received second string of coded alphanumeric data with a second string of coded alphanumeric data pre-stored in the memory sub-system; and

iv. said system manager comparing for consecutive M out of N times the received additional different strings of coded alphanumeric data pre-stored in the memory of said personal identification unit associated with said unique user with the additional strings of coded alphanumeric data pre-stored in the memory of sub-system; and

v. if all M strings of coded alphanumeric data match, then said system manager declares authenticating of said unique user and permitting said unique user access to said system.

30. (previously presented) The method of claim 29, wherein after said user gains access to said system, said user chooses either to work with the unsecured parts of said system memory or to gain access to said user secured personal data stored in said system memory by sending from said personal identification unit said secret access code that permits each such user sole access to his private secured memory partition in said system memory.

31. (previously presented) The method of claim 28, further comprising the steps of:

after the step of authenticating, said system manager connecting the personal identification unit of said unique user with any of a group of emergency centers or service providers registered with said system manager at the request of said user personal identification unit; and

in the case of a medical emergency call initiated by said personal identification unit, transferring the user's updated medical data to the emergency center.

32. (currently amended) A system for managing personal and secured data and documentation files of a plurality of unique users, the system comprising:

a. a system manager for managing and updating personal data of said system plurality of unique users and for full-duplex communicating communication with each of said plurality of unique users and a plurality of service providers; and

b. a ~~memory sub-storage~~ system connected to said system manager to store updated personal data of each of said plurality of unique users; ~~and~~

c. a plurality of personal identification units, each of said personal identification units being associated with a unique user, each unique user being registered with said system manager, each of said personal identification units comprising a storage unit configured to store ~~and the personal ID data file of each unique user being stored in said memory sub-~~

~~system; and~~ and a plurality of biometric sensors for reading a plurality of personal biological identification parameters of the user holding the apparatus, said plurality of biometric sensors being integrated within the personal identification units;

d. a plurality of computer hosts and cellular phones in communication with said system manager, enabling the direct connection by said system manager with said plurality of unique users through their corresponding personal identification unit; and

e. a plurality of registered emergency centers and a plurality of registered service providers in communication with said system manager, said plurality of service providers including banks, credit card companies, insurance companies, clinics, hospitals and medical insurance companies, government, municipal and utility entities and selected websites frequently accessed by said plurality of users; ~~and~~

wherein said system manager's access to and communication with the personal data and documentation files stored in said personal identification units associated with each said unique user and to the personal data and documentation files stored by said group of service providers is only enabled after positive authentication of each of said unique user's personal biological identification parameters by said authentication unit.

33. (currently amended) The system according to claim 38, wherein each of said plurality of personal identification units comprises:

i. a sensor module comprising a plurality of biometric sensors for reading a plurality of personal biological identification parameters of the user holding the of personal identification units, said of personal identification units being uniquely identified with said user;

ii. a processor in communication with said sensor module for processing said personal biological identification parameters and for processing and managing the personal and secured data and documentation files associated with said user;

iii. an authentication unit in communication with the processor configured to receive and authenticate the identity of said user by comparing said user's personal biological identification parameters read, by the sensor module and processed by the processor, with a pre-recorded set of personal biological identification parameters stored in said authentication unit;

iv. an encryption module in communication with said processor for the encryption plus compression and/or decompression plus decryption of said user's data files;

v. a storage unit in communication with said processor and said encryption module for the storage of said user's data and documentation files; and

vi. communication and data connection means in communication with said processor for connecting said of personal identification units with said system manager and plurality of service providers;

34 (currently amended)                      The system according to claim 33, wherein said system manager is configured:

to communicate with said personal identification units to compare the user's ID data file stored in the unique user's personal identification units with the corresponding identification data stored in said storage unit ~~memory sub-system~~, and

if the two sets of identification data match, then said system manager is configured to initiate a further level of security identification prior to full communication and data updating capability being enabled between said system manager and said user personal identification unit; and

wherein said further level of security identification comprises said system manager sending a first string of coded alphanumeric data uniquely associated with said user personal identification unit to said user personal identification unit, said personal identification unit responding with a second string of coded alphanumeric data uniquely associated with said user personal identification unit, and said system manager verifying the received second

string of coded alphanumeric data with a second string of coded alphanumeric data pre-stored in the memory sub-system; and

said system manager comparing for full matching for N consecutive times received additional different strings of coded alphanumeric data pre-stored in the memory of said personal identification unit associated with said unique user with counter generated additional strings of coded alphanumeric data pre-stored in the memory of sub-system.

35. (previously presented) The system according to claim 33, wherein said plurality of biometric sensors continuously read a plurality of personal biological identification parameters associated with the user holding his unique personal identification units and in the event that a change occurs in any of the plurality of personal biological identification parameters, access to the stored personal data files is denied and the operation of said identification units is completely shut down.

36. (currently amended) The system according to claim 33, wherein each personal identification unit further comprises an emergency button in communication with said processor and said communication and data connection means module;

wherein at least one of said plurality of biometric sensors is a life signs detector, said life signs detector being configured to measure and record at least one of said user's life sign parameters; and

wherein said at least one of said user's life sign parameters is measured by any of a group of life sign indicators including a body pulse rate measurement indicator, a body O<sub>2</sub> saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator; and

wherein the personal identification unit is configured to initiate an emergency call to any of said plurality of registered emergency centers, whenever said emergency button is activated or whenever any of the group of life sign indicators detects a critical level; and

wherein the personal identification unit is configured to transmit any of a group of data files containing information associated with the user, including

the identification data of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user.

37. (previously presented) The system of claim 36, wherein said system, further comprises:

a computerized call center configured to receive phone calls or emergency voice and data messages from any of said plurality of registered emergency centers and a plurality of registered service providers and to communicate with any of said plurality of cellular phone and host computers; and

wherein said call center is configured to communicate the user's location coordinates to an emergency rescue team and simultaneously said call center is configured to communicate with any of said plurality of registered emergency centers and service providers to receive said user's updated medical data and to transfer said data to

38. (NEW) The apparatus according to claim 1, further comprising:

an encryption unit in communication with said processor for the encryption plus compression and for the decompression plus decryption of said user's data files.

### **Remarks/Arguments**

This response is filed in response to an Office Action dated February 23, 2012, from the United States Patent and Trademark Office in connection with the above identified application.

Applicant has carefully studied the outstanding Office Action. The present response is intended to be fully responsive to all points of rejection raised by the Examiner.

Claims 1-37 are pending in the application.

Claims 1-2, 6-8, 11-12, 14-15, 17-21, 24, 27, 32-34 and 36 have been amended. New Claim 38 has been added.

Applicants respectfully assert that no new matter has been added.

Reconsideration of the rejections is respectfully requested.

### **Claim Rejections – under 35 U.S.C. §101**

Claims 1-20 are rejected under 35 U.S.C. § 101, because the claimed invention is directed to non-statutory subject matter.

Claim 1 has been amended to overcome the deficiencies noted by the Examiner.

### **Claim Rejections – under 35 USC § 102**

Claims 1-37 are rejected under 35 U.S.C. 102(b) as being anticipated by Mass et al (US 20090062887 hereinafter Mass)

Applicant respectfully traverses this rejection in view of the remarks that follow.

Claims 1-2, 6-8, 11-12, 14-15, 17-21, 24, 27, 32-34 and 36 have been amended. New Claim 38 has been added.

As is well-established, in order to successfully assert a prima facie case of anticipation, the Examiner must provide a single prior art document that includes every element and limitation of the claim or claims being rejected. Therefore, if even one element or limitation is missing from the cited document, the Examiner has not succeeded in making a prima facie case.

Applicants begin with claim 1.

Claim 1 (as amended) recites apparatus for storing and managing personal and secured data and documentation files associated with a specific user. The apparatus comprises, *inter alia*, a plurality of biometric sensors- integrated within the apparatus - for reading a plurality of personal biological identification parameters of the user holding the apparatus and an authentication unit comprising a storage unit configured to store a pre-recorded set of personal biological identification parameters uniquely associated with the specific user. The authentication unit is configured to compare the plurality of personal biological identification parameters of the user holding the apparatus with the pre-recorded set of personal biological identification parameters stored in the storage unit of the authentication unit.

Access to the personal data and documentation files stored in another apparatus storage unit is only enabled after the authentication unit positively matches each of the plurality of personal biological identification parameters of the user holding the apparatus with the pre-recorded set of personal biological identification parameters stored in the storage unit.(emphasis added).

The Office Action cites Mass et al as the closest prior art to the present application. Mass describes a wireless patient communicator.

Applicant respectfully submits that the Office Action is mistaken in attributing elements of claim 1 to Mass. For example, Para 221 of Mass (cited in para 4 of the Office Action) does not expressly or inherently the limitation of an authentication unit, which is configured to *compare each of the plurality of personal biological identification parameters of the user holding the apparatus with the pre-recorded set of personal biological identification parameters stored in a storage unit of the apparatus*.

Para 221 (of Mass), states:

[0221] One authentication mechanism that may be used  
To pair the PIMD and the PPC is the "challenge/response"  
approach. A PIMD or PPC wanting to authenticate another  
device creates a random challenge message and sends it to  
that device. The device receiving the challenge message adds  
a time stamp and signs it with a private key (from a public/  
private key pair). The signed response is returned to the challenger,  
who can check it with the public key. If it passes, and  
the time stamp is "recent," then the challenger knows that the  
other device really has the private key. As long as keys are

secured, the receiver has to be the authentic owner of that public/private key pair. Authentication can also be performed with symmetric keys, if a means is provided to ensure that the same key is in both systems in a secure manner, but a public key infrastructure (PKI) may be preferred for some applications.

In other words, the authentication mechanism of Mass refers to the pairing of two devices and does not describe or suggest the limitation of claim 1.

Furthermore, it is respectfully asserted that, Mass fails to meet either expressly or inherently the limitation that *plurality of biometric sensors are integrated within the apparatus*.

Thirdly, since Mass does not compare the identification parameters of the holder of the apparatus with the pre-recorded set of identification parameters stored in the apparatus, Mass fails to meet either expressly or inherently the limitation of *only enabling access to data files after verification of the identity of the holder of the apparatus*. (emphasis added).

Accordingly, Mass cannot anticipate Applicants' amended claim 1. Since claims 2-20 and claim 38 depend directly or indirectly from independent claim 1, they are not anticipated for at least the same reason. Additional arguments to distinguish the cited patent from claim 1 could have been made, but it is believed that the foregoing discussion is sufficient to overcome the Examiner's rejection.

Claim 21 (as amended) recites a method claim for managing personal and secured data and documentation files of a plurality of unique users, each having their own unique personal identification unit.

The method comprises the steps;

a. a plurality of biometric sensors being *integrated within the personal identification unit* reading a plurality of personal biological identification parameters of the user holding the personal identification unit; and

b. said authentication unit *comparing each of the personal biological identification parameters of said user with a pre-recorded set of personal biological identification parameters stored in said authentication unit*; and

c. if said authentication unit positively identifies said user, allowing said user access to said user's personal data and documentation files stored in said first storage

unit and allowing said user to communicate with other communication means through said personal identification unit. (emphasis added)

Applicant respectfully submits that the Office Action is mistaken in attributing elements of claim 21 to Mass. For example, Paras 221 and 222 of Mass (cited in para 24 of the Office Action) does not expressly or inherently the limitation of an authentication unit, which is configured to *comparing the personal biological identification parameters of said user with a pre-recorded set of personal biological identification parameters stored in said authentication unit*.

Thus, since Mass does not compare the identification parameters of the holder of the apparatus with the pre-recorded set of identification parameters stored in the apparatus, Mass fails to meet either expressly or inherently the limitation of *only allowing said user access to said user's personal data and documentation files* stored in said first storage unit and *allowing said user to communicate with other communication means through said personal identification unit*.

Para 221 was discussed above. Para 222 states:

[0222] A PIMD can be manufactured to include the public certificate for the server. The server has a private key well secured, such as secured in hardware encryption modules. The PPC has a private key, and the server has the public keys for all manufactured PPCs. However, the PIMD may not have enough memory to store the public keys for all PPCs, or the PIMD may be implanted before its associated PPC is manufactured.

In other words, the authentication mechanism of Mass refers to the pairing of two devices and does not describe or suggest the limitation of claim 21.

Thus, Applicant respectfully submits that the Office Action has not shown that every element and limitation of the claim or claims being rejected appears in the cited prior art. Thus, Applicants respectfully submit that Mass et al. does not anticipate Applicant's claim 21. Since claims 22-31 depend directly or indirectly from independent claim 21, they cannot be anticipated by Mass et al. for at least the same reasons.

Claim 32 (as amended) recites a system for managing personal and secured data and documentation files of a plurality of unique users. The system comprises, *inter alia*, a system manager for managing and updating personal data of the unique

users and for full-duplex communication with each of said plurality of unique users and a plurality of service providers; and a plurality of personal identification units.

Each personal identification unit is associated with a unique user, each unique user being registered with the system manager and each personal identification units comprising a storage unit configured to store the personal ID data file of each unique user and a plurality of biometric sensors for reading a plurality of personal biological identification parameters of the user holding the apparatus, the plurality of biometric sensors being integrated within the personal identification units;

The system manager's access to and communication with the personal data and documentation files stored in said personal identification units associated with each said unique user and to the personal data and documentation files stored by said group of service providers is only enabled after positive authentication of said unique user's personal biological identification parameters by said authentication unit.

Para 0054 of Mass was cited (para 36 of the Office action) as teaching the limitation of enabling access after authentication of the user's biological parameters through biometric sensors stored in his personal identification units. However, Para 0054 (below) does not describe or suggest this feature.

[0054] The life critical network 200 essentially provides a private network that is configured to operate on top of existing mobile and fixed facility networks. The LCN 200 utilizes a secured architecture providing for authentication and management of those components that are allowed access to the network 200. Such components or nodes include, for example, portable patient communicators 14, patient sensors 17A-17B, PIMD programmer systems 23, clinician mobile devices 25, clinician workstations 27, patient advocate mobile devices 21, and smart hubs 19, among others.

As previously discussed, Mass does not compare the identification parameters of the holder of the apparatus with the pre-recorded set of identification parameters stored in the apparatus, Mass fails to meet either expressly or inherently the limitation of only enabling access to data files after verification of the identity of the holder of the apparatus. Mass also fails to meet either expressly or inherently the limitation that *plurality of biometric sensors are integrated within the apparatus*.

Thus, Applicant respectfully submits that the Office Action has not shown that every element and limitation of the claim or claims being rejected appears in the cited prior art. Thus, Applicants respectfully submit that Mass et al. does not

anticipate Applicant's claim 32. Since claims 33-37 depend directly or indirectly from independent claim 32, they cannot be anticipated by Mass et al. for at least the same reasons.

### **Conclusion**

Should the Examiner have any question or comment as to the form, content or entry of this Amendment, the Examiner is requested to contact the undersigned at the telephone number below. Similarly, if there are any further issues yet to be resolved to advance the prosecution of this application to issue, the Examiner is requested to telephone, communicate via mail, Fax and email to the undersigned counsel.

In view of the above amendments and remarks, it is respectfully submitted that the claims, namely claims 1-38 are patentable over the art of record and are now in condition for allowance. Prompt notice of allowance is respectfully solicited.

Ser. No. 12/849,971  
Art Unit 3686  
Amendment dated June 17, 2012  
Reply to Office Action of February 23, 2012

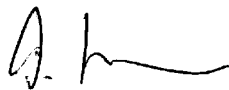
**Petition for One-Month Extension of Time under 37 CFR 1.136(a)**

The period for filing a response to the instant Office Action was set to expire on May 23, 2012. Applicant hereby requests that the period for filing a response be extended by one (1) month, so as to expire on June 23, 2012. Accordingly, this response is being timely filed.

The fee for a Petition for a One-Month Extension of Time is Seventy-Five Dollars (\$75.00) dollars for a small entity, for which credit card payment is provided herewith via EFS-Web.

Respectfully submitted,

  
Gila Fish, Inventor

  
Avner Korman, Inventor

| Electronic Patent Application Fee Transmittal |          |                                                      |        |                      |
|-----------------------------------------------|----------|------------------------------------------------------|--------|----------------------|
| Application Number:                           |          | 12849971                                             |        |                      |
| Filing Date:                                  |          | 04-Aug-2010                                          |        |                      |
| Title of Invention:                           |          | SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM |        |                      |
| First Named Inventor/Applicant Name:          |          | Gila FISH                                            |        |                      |
| Filer:                                        |          | Henry M. Sinai                                       |        |                      |
| Attorney Docket Number:                       |          | OSH-2799-US                                          |        |                      |
| Filed as Small Entity                         |          |                                                      |        |                      |
| Utility under 35 USC 111(a) Filing Fees       |          |                                                      |        |                      |
| Description                                   | Fee Code | Quantity                                             | Amount | Sub-Total in USD(\$) |
| Basic Filing:                                 |          |                                                      |        |                      |
| Pages:                                        |          |                                                      |        |                      |
| Claims:                                       |          |                                                      |        |                      |
| Miscellaneous-Filing:                         |          |                                                      |        |                      |
| Petition:                                     |          |                                                      |        |                      |
| Patent-Appeals-and-Interference:              |          |                                                      |        |                      |
| Post-Allowance-and-Post-Issuance:             |          |                                                      |        |                      |
| Extension-of-Time:                            |          |                                                      |        |                      |
| Extension - 1 month with \$0 paid             | 2251     | 1                                                    | 75     | 75                   |

| Description       | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|-------------------|----------|----------|--------|----------------------|
| Miscellaneous:    |          |          |        |                      |
| Total in USD (\$) |          |          |        | 75                   |

## Electronic Acknowledgement Receipt

|                                             |                                                      |
|---------------------------------------------|------------------------------------------------------|
| <b>EFS ID:</b>                              | 13093513                                             |
| <b>Application Number:</b>                  | 12849971                                             |
| <b>International Application Number:</b>    |                                                      |
| <b>Confirmation Number:</b>                 | 8890                                                 |
| <b>Title of Invention:</b>                  | SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM |
| <b>First Named Inventor/Applicant Name:</b> | Gila FISH                                            |
| <b>Customer Number:</b>                     | 35650                                                |
| <b>Filer:</b>                               | Henry M. Sinai                                       |
| <b>Filer Authorized By:</b>                 |                                                      |
| <b>Attorney Docket Number:</b>              | OSH-2799-US                                          |
| <b>Receipt Date:</b>                        | 25-JUN-2012                                          |
| <b>Filing Date:</b>                         | 04-AUG-2010                                          |
| <b>Time Stamp:</b>                          | 13:22:09                                             |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

### Payment information:

|                                          |             |
|------------------------------------------|-------------|
| Submitted with Payment                   | yes         |
| Payment Type                             | Credit Card |
| Payment was successfully received in RAM | \$75        |
| RAM confirmation Number                  | 11175       |
| Deposit Account                          |             |
| Authorized User                          |             |

### File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/<br>Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|-----------|-------------------------------------|------------------|------------------|
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| Warnings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                  |                      |                                              |    |    |
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| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> |                                                  |                      |                                              |    |    |



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| APPLICATION NO.                                                                                         | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.          | CONFIRMATION NO.       |
|---------------------------------------------------------------------------------------------------------|-------------|----------------------|------------------------------|------------------------|
| 12/849,971                                                                                              | 08/04/2010  | Gila FISH            | OSH-2799-US                  | 8890                   |
| 35650 7590 08/24/2012<br>HENRY M. SINAI<br>(IP-PARTNERSHIP)<br>P.O. BOX 669<br>RAANANA, 43350<br>ISRAEL |             |                      | EXAMINER<br>NGUYEN, HIEP VAN |                        |
|                                                                                                         |             |                      | ART UNIT<br>3686             | PAPER NUMBER           |
|                                                                                                         |             |                      | MAIL DATE<br>08/24/2012      | DELIVERY MODE<br>PAPER |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                              |                        |                     |  |
|------------------------------|------------------------|---------------------|--|
| <b>Office Action Summary</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                              | 12/849,971             | FISH ET AL.         |  |
|                              | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                              | HIEP V. NGUYEN         | 3686                |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 25 June 2012.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_; the restriction requirement and election have been incorporated into this action.
- 4) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 5) ☒ Claim(s) 1-38 is/are pending in the application.
- 5a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 6) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 7) ☒ Claim(s) 1-38 is/are rejected.
- 8) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 9) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 10) ☐ The specification is objected to by the Examiner.
- 11) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 12) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |                                                                                      |                                                                   |
|--------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____.                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date ____.                                                          | 6) <input type="checkbox"/> Other: ____.                          |

### DETAILED ACTION

1. Claims 1-38 have been examined. Claims 1-2, 6-8, 11-12, 14-15, 17-21, 24, 27, 32-34 and 36 have been amended. Claim 38 has been added. No new matter has been added.

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mass et al. (US. 20090062887 hereinafter Mass) in view of Moran (US. 6,539,380).

3. With respect to Claim 1, Mass teaches apparatus managing personal and secured data and documentation files stored in the apparatus, comprising:

a plurality of biometric sensors for reading a plurality of personal biological identification parameters of the user holding the apparatus, said plurality of biometric sensors being integrated within the apparatus ('887; *Paras 0038-0039; Para 0070; Para 0381* );

a first storage unit for the storage of said user's data and documentation files ('887; *Para 0004, 0009, 0039, 0066*);

Mass does not disclose an authentication unit comprising a second storage unit, with said second storage unit configured to store a pre-recorded set of personal biological identification parameters uniquely associated with the specific user, wherein said authentication unit is configured to compare the plurality of personal biological identification parameters of the user holding the apparatus with the pre-recorded set of personal biological identification parameters stored in said second storage unit.

However, Moran discloses to store a pre-recorded set of personal biological identification parameters uniquely associated with the specific user, wherein said authentication unit is configured to compare the plurality of personal biological identification parameters of the user holding the apparatus with the pre-recorded set of personal biological identification parameters stored in said second storage unit ('380; *Col. 4, lines 15-37*);

a processor in communication with said plurality of biometric sensors, said first storage unit and said authentication unit ('380; *Col. 4, lines 15-37*);

wherein access to the personal data and documentation files stored in said first storage unit is only enabled after said authentication unit positively matches each of the plurality of personal biological identification parameters of the user holding the apparatus with the pre-recorded set of personal biological identification parameters stored in said second storage unit ('380; *Col. 4, lines 15-37*)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine wireless patient communicator for use as taught by Mass ('887; abstract) and device, method for data access control as taught by

Moran ('380; Abstract) in order to authenticate the device and the combination would have yielded predictable result.

4. With respect to Claim 2, the combined art teaches the apparatus according to claim 1, Mass discloses wherein said plurality of biometric sensors are configured to continuously read a plurality of personal biological identification parameters associated with said user holding the apparatus and in the event that a change occurs in any of the plurality of personal biological identification parameters, access to the stored personal data files is denied and the operation of the apparatus is completely shut down ('887; *Para 0131*).

5. With respect to Claim 3, the combined art teaches the apparatus according to claim 1, Mass discloses wherein at least one of said plurality of biometric sensors is a life signs detector, said life signs detector being configured to measure and record at least one of said user's life sign parameters ('887; *Para 0235: heartbeat signal detector*).

6. With respect to Claim 4, the combined art teaches the apparatus according to claim 3, Mass discloses wherein said at least one of said user's life sign parameters is measured by any of a group of life sign indicators including a body pulse rate measurement indicator, a body saturation level indicator, a body heat measurement

Art Unit: 3686

indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator ('887; *Para 0237*).

7. With respect to Claim 5, the combined art teaches the apparatus according to claim 3, Mass discloses wherein, whenever any of the group of life sign indicators detects a critical level, the apparatus is configured to initiate an emergency call to any of a group of registered emergency centers, and send to said registered emergency centers any of a group of data files containing information associated with the user, including the identification data file of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user ('887; *Para 0335*).

8. With respect to Claim 6, the combined art teaches the apparatus according to claim 1, Mass discloses further comprising:

communication and data connection means for communicating with an external device, said communication and data connection means are controlled by and in communication with said processor ('887; *Para 0266*);

an emergency button in communication with said processor and said communication and data connection means module ('887; *Para 0266*);

wherein on said emergency button being activated, communication is initiated between said apparatus and any of a group of registered emergency centers, said emergency call transmitting any of a group of data files containing information

Art Unit: 3686

associated with the unique user of said apparatus, including the identification data of said user, the personal medical data file of said user, and location of said user ('887; *Para 0267*).

9. With respect to Claim 7, the combined art teaches the apparatus according to claim 1, Mass discloses wherein said apparatus is configured to communicate with any of a group of service providers, said group of service providers including banks, credit card companies, clinics, hospitals and medical insurance companies, municipal and utility entities and websites frequently accessed by said user thereby allowing said user to access and manage said user's personal data and documentation files, associated with said user ('887; *Para 0376: the Examiner interprets transferring patient data between smart card and network system*).

10. With respect to Claim 8, the combined art teaches the apparatus according to claim 6, Mass discloses wherein said external device comprises any one of a group including a remote server, a local server, a host computer, voice or data communication means and a cellular phone ('887; *Para 0264; Para 0267*).

11. With respect to Claim 9, the combined art teaches the apparatus according to claim 5, Mass discloses wherein said emergency call is initiated via any one of a group of communication means including a secured server, directly via the internet by said apparatus connection and communication means, via the internet through any host

computer, via a voice and data communication device and via any cellular phone network ('887; *Para 0071*).

12. With respect to Claim 10, the combined art teaches the apparatus according to claim 6, Mass discloses wherein said emergency call is initiated via any one of a group of communication means including a secured server, directly via the internet by said apparatus connection and communication means, via the internet through any host computer, via a voice and data communication device and the cellular phone network ('887; *Paras 0132, 0157, 0267*).

13. With respect to Claim 11, the combined art teaches the apparatus according to claim 6, Mass discloses wherein said communication and data connection means comprises at least one of a group of connection and communication devices including any data interface connector attached to a host computer, a Mini USB or compatible industrial data interface connector attached to a cellular phone, a near field wireless communication interface, a magnetic reader interface, and a smart card reader based on a contact-less communication interface using induction or RF communication ('887; *Paras 0132, 0245, 0330*).

14. With respect to Claim 12, the combined art teaches the apparatus according to claim 1, Mass discloses wherein said memory module first storage unit comprises a detachable and upgradeable miniature PCB board having Flash and/or Nano type solid

Art Unit: 3686

state read and write memory components with a memory capacity of at least Gigabytes of accessible memory size ('887; *Para 0410: flash storage*).

15. With respect to Claim 13, the combined art teaches the apparatus according to claim 1, Mass discloses further comprising:

a magnetic strip element that is only activatable after positive authentication of said user's personal biological identification parameters ();

wherein said magnetic strip is configured to be concealed within the apparatus and on activation configured to extend out of the apparatus for swiping and reading by any of group of devices including a credit card reader, ATM and point of sale magnetic strip reading device ('887; *Para 0376: the Examiner interprets transferring patient data between smart card and network system*).

16. With respect to Claim 14, the combined art teaches the apparatus according to claim 1, Mass discloses wherein the processor is configured to securely update the user's data and documentation files ('887; *Para 0398*).

17. With respect to Claim 15, the combined art teaches the apparatus according to claim 1, Mass discloses further comprising an integrated digital data encoder/decoder and a RF transceiver module in communication with the processor, said integrated digital data encoder/decoder and a RF transceiver module being configured to communicate with any of a group of external devices including RF operated credit card

Art Unit: 3686

readers, ATM machines and electronic locks or gate/door opener remotely operated using RFID based techniques ('887; *Paras 0056, 0104, 0197, 0407*).

18. With respect to Claim 16, the combined art teaches the teaches the apparatus according to claim 15, Mass discloses further comprising a supplementary base-station device in communication with said RF transceiver, said base-station device configured to electrically charge the apparatus and simultaneously automatically execute a backup of the internal secured and non-secured stored data of the apparatus ('887; *Para 0157*).

19. With respect to Claim 17, the combined art teaches the teaches the apparatus according to claim 11, Mass discloses further comprising an integrated software module that automatically detects the operating system of the computer or cellular phone connected to said apparatus through one of said group of communicating devices through which the apparatus is connected, said computer or cellular phone having keyboard and display units associated therewith, thereby allowing the user to interact with said storage unit and with said processor of said apparatus via said keyboard and display units, whereby said computer or cellular phone is configured to utilize and interact with said memory module, said processor and said sensor module of said apparatus ('887; *Para 0046*).

20. With respect to Claim 18, the combined art teaches the apparatus according to claim 1, Mass discloses further comprising a power charging and data backup device in communication with the processor of said apparatus, said device comprising:

- i. a charging plug for connecting to the mains supply, an AC-DC converter, a power supply unit and a rechargeable backup battery ('887; *Para 0189, 0359*).
- ii. a microprocessor, and a mass memory unit ('887; *Para 0406*),
- iii. an electronic buzzer activator, a button connected to said buzzer activator and an RF transmitter connected to said electronic buzzer activator, wherein on activating said buzzer button, said RF transmitter is configured to transmit a coded signal to the apparatus to enable the user to determine the location of the apparatus ('887; *Para 0167*);

wherein the first storage unit of said apparatus is in communication with the mass memory unit of said device, thereby to compare and synchronize the version of data stored in the first storage unit of said apparatus with the version of data stored in mass memory unit of said device ('887; *Para 0247*).

21. With respect to Claim 19, the combined art teaches the apparatus according to claim 1, Mass discloses further comprising an integrated GPS module in communication with the processor to precisely locate the geographical position of the apparatus ('887; *Para 0257*).

22. With respect to Claim 20, the combined art teaches the apparatus according to claim 1, further comprising at least one of a group of units including a cellular modem and a flat display and touch screen in communication with the processor ('887; *Para 0410; Para 0398*).

23. With respect to Claim 21, Mass teaches a method for managing personal and secured data and documentation files of a plurality of unique users, each one of said plurality of unique users having a personal identification unit uniquely associated with said one user for storing each user's personal data and documentation files, each of said personal identification units comprising:

a plurality of biometric sensors integrated within the personal identification unit ('887; *Paras 0038-0039; Para 0070; Para 0381* );

a processor in communication with said plurality of biometric sensors ('887; *Para 0087*);

an authentication unit in communication with the processor ('887; *Para 0221*);

an encryption in communication with said processor ('887; *Para 0222*);

a first storage unit in communication with said processing module and said encryption unit ('887; *Para 0379*);

communication and data connection means in communication with said processor ('887; *Para 0408*);

the method comprising the steps of:

a. the plurality of biometric sensors reading a plurality of personal biological identification parameters of the user holding the personal identification unit ('887; *Paras 0038-0039; Para 0070; Para 0381* );

Mass does not disclose

b. said authentication unit comparing the personal biological identification parameters of said user with a pre-recorded set of personal biological identification parameters stored in said authentication unit. However, Moran discloses said authentication unit comparing the personal biological identification parameters of said user with a pre-recorded set of personal biological identification parameters stored in said authentication unit ('380; *Col. 4, lines 15-37*);

c. if said authentication unit positively identifies said user, allowing said user access to said user's personal data and documentation files stored in said first storage unit and allowing said user to communicate with other communication means through said personal identification unit ('380; *Col. 4, lines 15-37*).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine wireless patient communicator for use as taught by Mass ('887; abstract) and device, method for data access control as taught by Moran ('380; Abstract) in order to authenticate the device and the combination would have yielded predictable result.

24. With respect to Claim 22, the combined art teaches the method of claim 21 Mass discloses further comprising the steps of:

said biometric sensors continuously reading a plurality of personal biological identification parameters of said user holding the apparatus and in the event that a change occurs in any of the plurality of personal biological identification parameters, denying access to the stored personal data files and completely shutting down the operation of said apparatus ('887; *Para 0131*).

25. With respect to Claim 23, the combined art teaches the method of claim 21, Mass discloses wherein at least one of said plurality of biometric sensors is a life signs detector, configured to measure and record at least one of a group of life sign indicators including a body pulse rate measurement indicator, a body O2 saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator, the method further comprising the steps of:

initiating an emergency call to any of a group of registered emergency centers, whenever any of the life sign indicators detects a critical level ();

wherein said emergency call transmits any of a group of data files information associated with the user, including identification of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user ('887; *Para 0131*)).

26. With respect to Claim 24, the combined art teaches the method of claim 21, Mass discloses wherein said apparatus further comprises an emergency button in communication with said processing module and said communication and data connection means, the method further comprising the steps of:

when said emergency button is activated, communication is initiated between said apparatus and any of a group of registered emergency centers ('887; *Paras 0335-0036*);

said emergency call transmitting any of a group of data files information associated with the user, including identification of the user, the personal medical data file of the user, and location of the user ('887; *Para 0337*).

27. With respect to Claim 25, the combined art teaches the method of claim 21, Mass discloses further comprising the step of:

communicating, via any one of a group of communication means, with any of a group of service providers including banks, credit card companies, clinics, hospitals and medical insurance companies, municipal and utility entities and websites frequently accessed by said user thereby allowing said user to access and manage said user's personal data and documentation files stored by said group of service providers ('887; *Para 0337*).

28. With respect to Claim 26, the combined art teaches the method of claim 21, Mass discloses wherein said apparatus further comprises a magnetic strip element, the

Art Unit: 3686

method further comprising the step of: after positive authentication of said user's personal biological identification parameters, activating said magnetic strip thereby allowing said magnetic strip to be read by any of group of devices including a credit card reader, ATM, and point of sale magnetic strip reading device ('887; *Para 0376*).

29. With respect to Claim 27, the combined art teaches the method of claim 21, Mass discloses wherein said apparatus further comprises a power charging and data backup device, said device comprising a charging and power sub unit, an electronic sub unit and a mass memory solid- state memory unit, the method further comprising the steps of:

comparing the memory content of said apparatus first storage unit to the memory content of said mass memory solid- state memory unit;

if the first storage unit of the apparatus lacks data, updating the first storage unit with the last version of the data stored within said apparatus solid-state memory unit ();

if said solid-state memory unit of said device lacks data, updating the solid-state memory unit of said device with the last version of the data stored within said apparatus solid-state memory unit ('887; *Para 0376: the Examiner interprets transferring patient data between smart card and network system*).

30. With respect to Claim 28, the combined art teaches the method of claim 21, Mass discloses wherein each of said plurality of unique users is in communication with a system manager, said system manager managing a remote centralized data

communication storage and management system of said plurality of unique users, the method further comprising the steps of:

a. said system manager registering each unique user and storing the personal ID data file of each unique user in a memory sub-system connected to said centralized system ('887; *Para 0220*);

b. said registration further includes the step wherein said system manager generates for each system user N pairs of two different randomly selected characters strings, each of said strings is a combination of n alphanumeric characters in length ('887; *Para 0220*);

c. said system manager storing said N pairs in said system memory sub-system and sending said n characters strings pairs to be stored in said unique user personal identification unit memory module ('887; *Para 0220*);

d. said personal identification unit generating a secret access code of L alphanumeric characters to be further stored in said system memory within a special partition containing the list of said secret access codes for said plurality of unique users without assigning any identification or link between the associated users to his registered secret access code ('887; *Para 0220-0222*).

31. Referring to Claim 29, the combined art teaches the method of claim 28, Mass discloses wherein after registration and upon normal initiation of communication between said system manager and each unique user, said system manager further communicating with said unique user and first comparing said unique user's ID data file

and said personal identification unit unique embedded characterizing serial number stored in the unique user's personal identification unit with the corresponding user's ID and personal identification data stored in said memory sub-system;

if the two sets of identification data match;

i. said system manager sending a first string of said stored N strings of coded alphanumeric data, to said user's personal identification unit;

ii. said user personal identification unit responding with the second matching string from the same stored pair of coded alphanumeric data uniquely associated with said user personal identification unit: and

iii. said system manager comparing the received second string of coded alphanumeric data with a second string of coded alphanumeric data pre-stored in the memory sub-system;

iv. said system manager comparing for consecutive M out of N times the received additional different strings of coded alphanumeric data pre-stored in the memory of said personal identification unit associated with said unique user with the additional strings of coded alphanumeric data pre-stored in the memory of sub-system ;

v. if all M strings of coded alphanumeric data match, then said system manager declares authenticating of said unique user and permitting said unique user access to said system ('887; *Paras 0220-0222: the Examiner interprets the encryption including public and private keys*).

Art Unit: 3686

32. With respect to Claim 30, the combined art teaches the method of claim 29, Mass discloses wherein after said user gains access to said system, said user chooses either to work with the unsecured parts of said system memory or to gain access to said user secured personal data stored in said system memory by sending from said personal identification unit said secret access code that permits each such user sole access to his private secured memory partition in said system memory.

33.

if the two sets of identification data match;

i. said system manager sending a first string of said stored N strings of coded alphanumeric data, to said user's personal identification unit;

ii. said user personal identification unit responding with the second matching string from the same stored pair of coded alphanumeric data uniquely associated with said user personal identification unit: and

iii. said system manager comparing the received second string of coded alphanumeric data with a second string of coded alphanumeric data pre-stored in the memory sub-system ;

iv. said system manager comparing for consecutive M out of N times the received additional different strings of coded alphanumeric data pre-stored in the memory of said personal identification unit associated with said unique user with the additional strings of coded alphanumeric data pre-stored in the memory of sub-system;

v. if all M strings of coded alphanumeric data match, then said system manager declares authenticating of said unique user and permitting said unique user access to

Art Unit: 3686

said system ('887; *Paras 0220-0222: the Examiner interprets the encryption including public and private keys*).

34. With respect to Claim 31, the combined art teaches the method of claim 28, Mass discloses further comprising the steps of:

after the step of authenticating, said system manager connecting the personal identification unit of said unique user with any of a group of emergency centers or service providers registered with said system manager at the request of said user personal identification unit ('887; *Paras 0054-0055*);

in the case of a medical emergency call initiated by said personal identification unit, transferring the user's updated medical data to the emergency center ('887; *Para 0121*).

35. With respect to Claim 32, Mass teaches a system for managing personal and secured data and documentation files of a plurality of unique users, the system comprising:

a. a system manager for managing and updating personal data of said system plurality of unique users and for full-duplex communication with each of said plurality of unique users and a plurality of service providers ('887; *Paras 0076, 0163*);

b. a storage system connected to said system manager to store updated personal data of each of said plurality of unique users ('887; *Paras 0076, 0163*);

c. a plurality of personal identification units, each of said personal identification units being associated with a unique user, each unique user being registered with said system manager, each of said personal identification units comprising a storage unit configured to store the personal ID data file of each unique user, and a plurality of biometric sensors for reading a plurality of personal biological identification parameters of the user holding the apparatus, said plurality of biometric sensors being integrated within the personal identification units ('887; *Paras 0038-0039; Para 0070; Para 0381* );

d. a plurality of computer hosts and cellular phones in communication with said system manager, enabling the direct connection by said system manager with said plurality of unique users through their corresponding personal identification unit ('887; *Figs. 1A-B*);

e. a plurality of registered emergency centers and a plurality of registered service providers in communication with said system manager, said plurality of service providers including banks, credit card companies, insurance companies, clinics, hospitals and medical insurance companies, government, municipal and utility entities and selected websites frequently accessed by said plurality of users ('887; *Para 0163*);

Mass does not disclose wherein said system manager's access to and communication with the personal data and documentation files stored in said personal identification units associated with each said unique user and to the personal data and documentation files stored by said group of service providers is only enabled after positive authentication of each of said unique user's personal biological identification parameters by said authentication unit.

However, moran discloses wherein said system manager's access to and communication with the personal data and documentation files stored in said personal identification units associated with each said unique user and to the personal data and documentation files stored by said group of service providers is only enabled after positive authentication of each of said unique user's personal biological identification parameters by said authentication unit (*'380; Col. 4, lines 15-37*).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to combine wireless patient communicator for use as taught by Mass ('887; abstract) and device, method for data access control as taught by Moran ('380; Abstract) in order to authenticate the device and the combination would have yielded predictable result.

36. With respect to Claim 33, the combined art teaches the system according to claim 32, wherein each of said plurality of personal identification units comprises :

i. a sensor module comprising a plurality of biometric sensors for reading a plurality of personal biological identification parameters of the user holding the of personal identification units, said of personal identification units being uniquely identified with said user (*'887; Paras 0038-0039; Para 0070; Para 0381* )

ii. a processor in communication with said sensor module for processing said personal biological identification parameters and for processing and managing the

Art Unit: 3686

personal and secured data and documentation files associated with said user ('887; *Para 0087*);

iii. an authentication unit in communication with the processor configured to receive and authenticate the identity of said user by comparing said user's personal biological identification parameters read, by the sensor module and processed by the processor, with a pre-recorded set of personal biological identification parameters stored in said authentication unit ('887; *Para 0221*);

iv. an encryption module in communication with said processor for the encryption plus compression and/or decompression plus decryption of said user's data files ('887; *Para 0222*);

v. a storage unit in communication with said processor and said encryption module for the storage of said user's data and documentation files ('887; *Para 0379*);

vi communication and data connection means in communication with said processor for connecting said of personal identification units with said system manager and plurality of service providers ('887; *Para 0408*).

37. With respect to Claim 34, the combined art teaches the system according to claim 33, Mass discloses wherein said system manager is configured:

to communicate with said personal identification units to compare the user's ID data file stored in the unique user's personal identification units with the corresponding identification data stored in said storage unit, and if the two sets of identification data match, then said system manager is configured to initiate a further level of security

identification prior to full communication and data updating capability being enabled between said system manager and said user personal identification unit ('887; *Para 0103*);

wherein said further level of security identification comprises said system manager sending a first string of coded alphanumeric data uniquely associated with said user personal identification unit to said user personal identification unit, said personal identification unit responding with a second string of coded alphanumeric data uniquely associated with said user personal identification unit, and said system manager verifying the received second string of coded alphanumeric data with a second string of coded alphanumeric data pre-stored in the memory sub-system ('887; *Para 0104*);

said system manager comparing for full matching for N consecutive times received additional different strings of coded alphanumeric data pre-stored in the memory of said personal identification unit associated with said unique user with counter generated additional strings of coded alphanumeric data pre-stored in the memory of sub-system ('887; *Para 0104-0105*).

38. With respect to Claim 35, the combined art teaches the system according to claim 33, Mass discloses wherein said plurality of biometric sensors continuously read a plurality of personal biological identification parameters associated with the user holding his unique personal identification units and in the event that a change occurs in any of the plurality of personal biological identification parameters, access to the stored

personal data files is denied and the operation of said identification units is completely shut down ('887; *Para 0131*).

39. With respect to Claim 36, the combined art teaches the system according to claim 33, Mass discloses wherein each personal identification unit further comprises an emergency button in communication with said processor and said communication and data connection means module ('887; *Para 0266*);

wherein at least one of said plurality of biometric sensors is a life signs detector, said life signs detector being configured to measure and record at least one of said user's life sign parameters ('887; *Para 0235: heartbeat signal detector*);

wherein said at least one of said user's life sign parameters is measured by any of a group of life sign indicators including a body pulse rate measurement indicator, a body O2 saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator ('887; *Para 0237*).; wherein the personal identification unit is configured to initiate an emergency call to any of said plurality of registered emergency centers, whenever said emergency button is activated or whenever any of the group of life sign indicators detects a critical level ('887; *Para 0267*);

wherein the personal identification unit is configured to transmit any of a group of data files containing information associated with the user, including the identification data of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user ('887; *Para 0267*);.

40. With respect to Claim 37, the combined art teaches the system of claim 36, Mass discloses wherein said system, further comprises:

a computerized call center configured to receive phone calls or emergency voice and data messages from any of said plurality of registered emergency centers and a plurality of registered service providers and to communicate with any of said plurality of cellular phone and host computers ('887; *Para 0337*);

wherein said call center is configured to communicate the user's location coordinates to an emergency rescue team and simultaneously said call center is configured to communicate with any of said plurality of registered emergency centers and service providers to receive said user's updated medical data and to transfer said data to the user's personal identification unit ('887; *Para 0337*).

41. With respect to Claim 38, the combined art teaches the apparatus according to claim 1, Mass discloses further comprising: an encryption unit in communication with said processor for the encryption plus compression and for the decompression plus decryption of said user's data files ('887; *Para 0056, 0312*).

### ***Response to Arguments***

42. Applicant's arguments filed 06/25/2012 have been fully considered but they are not persuasive.

43. In the Remark filed 06/25/2012, the Applicant argued that the Mass's reference does not disclose the authentication unit which is configured to compare the plurality of personal biological identification parameters of the user holding the apparatus with the pre-recorded set of personal biological identification parameters stored in said second storage unit, and does not disclose a plurality of biometric sensors as amended in claims 1, 21 and 32.

44. In response to the applicant's argument, the Examiner respectfully disagrees. In fact, Moran discloses a biometric detection for detecting biological parameters of the user and for determining whether the user has the at least one permission to access the stored data ('380; Col. 4, lines 15-37). Further Mass discloses the biometric or physiological sensors ('887; Para 0038).

Therefore given the broadest reasonable interpretation to one of ordinary skill in the art, it is submitted that the biometric detection of Moran as in a form of authentication unit as described in the Applicant's invention.

Therefore, the Examiner maintains the rejection to Applicant's claims.

### ***Conclusion***

45. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

46. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HIEP V. NGUYEN whose telephone number is (571) 270-5211. The examiner can normally be reached on Monday through Friday between 8:00AM and 5:00PM.

47. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry O'Connor can be reached on 5712726787. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

48. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or (571) 272-1000.

49. Official replies to this Office action may now be submitted electronically by registered users of the EFS-Web system. Information on EFS-Web tools is available on the Internet at: <http://www.uspto.gov/patents/process/file/efs/guidance/index.jsp>. An EFS-Web Quick-Start Guide is available at: <http://www.uspto.gov/ebc/portal/efs/quick-start.pdf>.

50. Alternatively, official replies to this Office action may still be submitted by any **one** of fax, mail, or hand delivery. **Faxed replies should be directed to the central fax at (571) 273-8300.** Mailed replies should be addressed to "Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450." Hand delivered replies should be delivered to the "Customer Service Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314."

/HIEP V NGUYEN/  
Examiner, Art Unit 3686

|                                   |                                       |  |                                                           |             |
|-----------------------------------|---------------------------------------|--|-----------------------------------------------------------|-------------|
| <b>Notice of References Cited</b> | Application/Control No.<br>12/849,971 |  | Applicant(s)/Patent Under<br>Reexamination<br>FISH ET AL. |             |
|                                   | Examiner<br>HIEP V. NGUYEN            |  | Art Unit<br>3686                                          | Page 1 of 1 |

**U.S. PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Name       | Classification |
|---|---|--------------------------------------------------|-----------------|------------|----------------|
| * | A | US-6,539,380                                     | 03-2003         | Moran, Dov | 707/783        |
|   | B | US-                                              |                 |            |                |
|   | C | US-                                              |                 |            |                |
|   | D | US-                                              |                 |            |                |
|   | E | US-                                              |                 |            |                |
|   | F | US-                                              |                 |            |                |
|   | G | US-                                              |                 |            |                |
|   | H | US-                                              |                 |            |                |
|   | I | US-                                              |                 |            |                |
|   | J | US-                                              |                 |            |                |
|   | K | US-                                              |                 |            |                |
|   | L | US-                                              |                 |            |                |
|   | M | US-                                              |                 |            |                |

**FOREIGN PATENT DOCUMENTS**

| * |   | Document Number<br>Country Code-Number-Kind Code | Date<br>MM-YYYY | Country | Name | Classification |
|---|---|--------------------------------------------------|-----------------|---------|------|----------------|
|   | N |                                                  |                 |         |      |                |
|   | O |                                                  |                 |         |      |                |
|   | P |                                                  |                 |         |      |                |
|   | Q |                                                  |                 |         |      |                |
|   | R |                                                  |                 |         |      |                |
|   | S |                                                  |                 |         |      |                |
|   | T |                                                  |                 |         |      |                |

**NON-PATENT DOCUMENTS**

| * |   | Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages) |
|---|---|-------------------------------------------------------------------------------------------|
|   | U |                                                                                           |
|   | V |                                                                                           |
|   | W |                                                                                           |
|   | X |                                                                                           |

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

|                                                                                                                    |                                            |                                                               |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| <b><i>Index of Claims</i></b><br> | <b>Application/Control No.</b><br>12849971 | <b>Applicant(s)/Patent Under Reexamination</b><br>FISH ET AL. |
|                                                                                                                    | <b>Examiner</b><br>HIEP V NGUYEN           | <b>Art Unit</b><br>3686                                       |

|   |                 |   |                   |   |                     |   |                 |
|---|-----------------|---|-------------------|---|---------------------|---|-----------------|
| ✓ | <b>Rejected</b> | - | <b>Cancelled</b>  | N | <b>Non-Elected</b>  | A | <b>Appeal</b>   |
| = | <b>Allowed</b>  | ÷ | <b>Restricted</b> | I | <b>Interference</b> | O | <b>Objected</b> |

☐ Claims renumbered in the same order as presented by applicant
 ☐ CPA
 ☐ T.D.
 ☐ R.1.47

| CLAIM |          | DATE       |            |  |  |  |  |  |  |  |  |
|-------|----------|------------|------------|--|--|--|--|--|--|--|--|
| Final | Original | 02/22/2012 | 08/22/2012 |  |  |  |  |  |  |  |  |
|       | 1        | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 2        | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 3        | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 4        | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 5        | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 6        | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 7        | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 8        | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 9        | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 10       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 11       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 12       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 13       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 14       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 15       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 16       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 17       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 18       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 19       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 20       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 21       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 22       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 23       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 24       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 25       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 26       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 27       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 28       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 29       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 30       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 31       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 32       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 33       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 34       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 35       | ✓          | ✓          |  |  |  |  |  |  |  |  |
|       | 36       | ✓          | ✓          |  |  |  |  |  |  |  |  |

|                                                                                                                    |                                            |                                                               |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| <b><i>Index of Claims</i></b><br> | <b>Application/Control No.</b><br>12849971 | <b>Applicant(s)/Patent Under Reexamination</b><br>FISH ET AL. |
|                                                                                                                    | <b>Examiner</b><br>HIEP V NGUYEN           | <b>Art Unit</b><br>3686                                       |

|   |                 |   |                   |   |                     |   |                 |
|---|-----------------|---|-------------------|---|---------------------|---|-----------------|
| ✓ | <b>Rejected</b> | - | <b>Cancelled</b>  | N | <b>Non-Elected</b>  | A | <b>Appeal</b>   |
| = | <b>Allowed</b>  | ÷ | <b>Restricted</b> | I | <b>Interference</b> | O | <b>Objected</b> |

| <input type="checkbox"/> Claims renumbered in the same order as presented by applicant |          |            |            | <input type="checkbox"/> CPA |  |  |  | <input type="checkbox"/> T.D. |  |  |  | <input type="checkbox"/> R.1.47 |  |  |  |
|----------------------------------------------------------------------------------------|----------|------------|------------|------------------------------|--|--|--|-------------------------------|--|--|--|---------------------------------|--|--|--|
| CLAIM                                                                                  |          | DATE       |            |                              |  |  |  |                               |  |  |  |                                 |  |  |  |
| Final                                                                                  | Original | 02/22/2012 | 08/22/2012 |                              |  |  |  |                               |  |  |  |                                 |  |  |  |
|                                                                                        | 37       | ✓          | ✓          |                              |  |  |  |                               |  |  |  |                                 |  |  |  |
|                                                                                        | 38       |            | ✓          |                              |  |  |  |                               |  |  |  |                                 |  |  |  |

Ser. No. 12/849,971  
Art Unit 3686  
Amendment dated November 20, 2012  
Amendment after Final

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**Patent Application**

**Inventor(s)** : Gila FISH et al  
**Serial No.** : 12/849,971  
**Docket No.** : OSH-2799-US  
**Filed** : August 4, 2010  
**Title** : A SECURED PERSONAL DATA HANDLING AND  
MANAGEMENT SYSTEM  
**Examiner** : Hiep Van NGUYEN  
**Art Unit** : 3765

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**AMENDMENT AFTER FINAL OFFICE ACTION**

Sir:

We respectfully submit the following amended listing of claims.

Please amend the above-identified application as follows:

**Amendments to the Claims** are reflected in the listing of claims which begins on page 2 of this paper.

**Remarks/Arguments** begin on page 17 of this paper.

The period for filing a response to the instant Office Action was set to expire on November 24, 2012. Since November 24, 2012 was a Saturday, this response is being timely filed.

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (currently amended) Apparatus for storing and managing personal and secured data and documentation files associated with a specific user, comprising:

a plurality of biometric sensors for reading a plurality of personal biological biometric identification parameters of the user holding the apparatus, said plurality of biometric sensors being integrated within the apparatus;

at least one life signs detector integrated within the apparatus, said life signs detector being configured to measure and record at least one of said user's life sign parameters;

a first storage unit for the storage of said user's data and documentation files;

an authentication unit comprising a second storage unit, with said second storage unit configured to store a pre-recorded set of personal biological biometric identification parameters uniquely associated with the specific user, wherein said authentication unit is configured to compare the plurality of personal biological biometric identification parameters of the user holding the apparatus with the pre-recorded set of personal biological biometric identification parameters stored in said second storage unit;

a processor in communication with said plurality of biometric sensors, said first storage unit and said authentication unit;

wherein access to the personal data and documentation files stored in said first storage unit is only enabled after said authentication unit positively matches each of the plurality of personal biological biometric identification parameters of the user holding the apparatus with the pre-recorded set of personal biological identification parameters stored in said second storage unit; and

wherein, whenever any of said at least one life signs detector detects a critical level of said user measured life sign parameters, the apparatus is configured to prevent access to said user's personal data and documentation files stored in said first storage unit.

2. (previously presented) The apparatus according to claim 1, wherein said plurality of biometric sensors are configured to continuously read a plurality of personal biological identification parameters associated with said user holding the apparatus and in the event that a change occurs in any of the plurality of personal biological identification parameters, access to the stored personal data files is denied and the operation of the apparatus is completely shut down.

3. (CANCELLED)

4. (currently amended) The apparatus according to claim ~~[[3]]~~1, wherein said at least one of said user's life sign parameters is measured by any of a group of life sign indicators including a body pulse rate measurement indicator, a body O<sub>2</sub> saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator.

5. (currently amended) The apparatus according to claim 6 ~~[[3]]~~, wherein, whenever any of the group of life sign indicators detects a critical level, the apparatus is configured to initiate an emergency call to any of a group of registered emergency centers, and send to said registered emergency centers any of a group of data files containing information associated with the user, including the identification data file of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user.

6. (currently amended) The apparatus according to claim 1, further comprising:

communication and data connection means for communicating with an external device, said communication and data connection means ~~are~~ being controlled by and in communication with said processor;

~~an emergency button in communication with said processor and said communication and data connection means module;~~

~~wherein on said emergency button being activated, communication is initiated between said apparatus and any of a group of registered emergency centers, said emergency call transmitting any of a group of data files containing information associated with the unique user of said apparatus, including the identification data of said user, the personal medical data file of said user, and location of said user.~~

7. (previously presented) The apparatus according to claim 6, wherein said apparatus is configured to communicate with any of a group of service providers, said group of service providers including banks, credit card companies, clinics, hospitals and medical insurance companies, municipal and utility entities and websites frequently accessed by said user; thereby allowing said user to access and manage personal data and documentation files, associated with said user.

8. (previously presented) The apparatus according to claim 6, wherein said external device comprises any one of a group including a remote server, a local server, a host computer, voice or data communication means and a cellular phone.

9. (currently amended) The apparatus according to claim [[5]]6, wherein said emergency call is initiated via any one of a group of communication means including a secured server, directly via the internet by said apparatus connection and communication means, via the internet through any host computer, via a voice and data communication device and via any cellular phone network.

10. (previously presented) The apparatus according to claim 6, wherein said emergency call is initiated via any one of a group of communication means including a secured server, directly via the internet by said apparatus connection and communication means, via the internet through any host computer, via a voice and data communication device and the cellular phone network.

11. (previously presented) The apparatus according to claim 6, wherein said communication and data connection means comprises at least one of a group of connection and communication devices including a data interface connector attached

to a host computer, a Mini USB, a compatible industrial data interface connector attached to a cellular phone, a near field wireless communication interface, a Bluetooth communication interface, a magnetic reader interface, and a smart card reader based on a contact-less communication interface using induction or RF communication.

12. (previously presented) The apparatus according to claim 1, wherein said first storage unit comprises a detachable and upgradeable miniature PCB board having Flash and/or Nano type solid state read and write memory components with a memory capacity of at least 10 Gigabytes of accessible memory size.

13. (currently amended) The apparatus according to claim 1, further comprising:

a magnetic strip element that is only activatable after positive authentication of said user's personal biological biometric identification parameters and positive normal non critical measured output of all of the at least one of said life sign detectors of said user measured life sign parameters; and

wherein said magnetic strip is configured to be concealed within the apparatus and on activation configured to extend out of the apparatus for swiping and reading by any of group of devices including a credit card reader, ATM and point of sale magnetic strip reading device.

14. (previously presented) The apparatus according to claim 1, wherein the processor is configured to securely update the user's data and documentation files.

15. (currently amended) The apparatus according to claim 1, further comprising an integrated digital data encoder/decoder and a wireless transceiver module in communication with the processor, said integrated digital data encoder/decoder and a ~~RF-wireless~~ transceiver being configured to communicate with any of a group of external devices including RF operated credit card readers, ATM machines, and remotely operated electronic locks gates and doors opener using RFID based techniques.

16. (currently amended) The apparatus according to claim 15, further comprising a supplementary base-station device in communication with said ~~RF~~ wireless transceiver, said base-station device configured to electrically charge the apparatus and simultaneously automatically execute a backup of the internal secured and non-secured stored data of the apparatus.

17. (previously presented) The apparatus according to claim 6, further comprising an integrated software module that automatically detects the operating system of the computer or cellular phone connected to said apparatus through one of said group of communicating devices through which the apparatus is connected, said computer or cellular phone having keyboard and display units associated therewith, thereby allowing the user to interact with said first storage unit and with said processor of said apparatus via said keyboard and display units, whereby said computer or cellular phone is configured to utilize and interact with said memory module, said processor and said sensor module of said apparatus.

18. (previously presented) The apparatus according to claim 1, further comprising a power charging and data backup device in communication with the processor of said apparatus, said device comprising;

- i. a charging plug for connecting to the mains supply, an AC-DC converter, a power supply unit and a rechargeable backup battery;
  - ii. a micro processor and a mass memory unit;
  - iii. an electronic buzzer activator, a button connected to said buzzer activator and an RF transmitter connected to said electronic buzzer activator, wherein on activating said buzzer button, said RF transmitter is configured to transmit a coded signal to the apparatus to enable the user to determine the location of the apparatus; and
- wherein the first storage unit of said apparatus is in communication with the mass memory unit of said device, thereby to compare and synchronize the version of data stored in the first storage unit of said apparatus with the version of data stored in mass memory unit of said device.

19. (previously presented) The apparatus according to claim 1, further comprising an integrated GPS module in communication with the processor to precisely locate the geographical position of the apparatus.

20. (currently amended) The apparatus according to claim 1, further comprising at least one of a group of units including a cellular modem and a flat display, and a touch screen for communication with the processor.

21. (currently amended) A method for managing personal and secured data and documentation files of a plurality of unique users, each one of said plurality of unique users having a personal identification unit uniquely associated with said one user for storing each user's personal data and documentation files, each of said personal identification units comprising:

a plurality of biometric sensors integrated within the personal identification unit;

at least one life signs detector, integrated within the personal identification unit, said life signs detector being configured to measure and record at least one of said user's life sign parameters;

a processor in communication with said plurality of biometric sensors;

an authentication unit in communication with the processor;

an encryption unit in communication with said processor;

a first storage unit in communication with said processor and said encryption unit; and

communication and data connection means in communication with said processor;

the method comprising the steps of:

a. the plurality of biometric sensors reading a plurality of personal biological identification parameters of the user holding the personal identification unit; ~~and~~

b. at least one life signs detector, integrated within the apparatus, measuring and recording at least one of said user's life sign parameters;

- c. ~~b.~~ said authentication unit comparing each of the personal biological identification parameters of said user with a pre-recorded set of personal biological identification parameters stored in said authentication unit; and
- d. ~~e.~~ if said authentication unit positively identifies said user, and if all of said at least one life signs detector, records the user's normal life sign parameters, allowing said user access to said user's personal data and documentation files stored in said first storage unit and allowing said user to communicate with other communication means through said personal identification unit.

22. (currently amended) The method of claim 21 further comprising the steps of:

said biometric sensors continuously reading a plurality of personal biological biometric identification parameters of said user holding the apparatus; and

in the event that a change occurs in any of the plurality of personal biological biometric identification parameters or in the normal output reading of said least one of said life signs detectors,, denying access to the stored personal data files and completely shutting down the operation of said apparatus.

23. (currently amended) The method of claim 21, wherein at least one of said plurality of ~~biometric sensors is a~~ of life signs ~~detector detectors, configured to measure and record at least one of a group of life sign indicators including~~ includes a body pulse rate measurement indicator, a body O2 saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator, the method further comprising the steps of:

initiating an emergency call to any of a group of registered emergency centers, whenever any of the life sign indicators detects a critical level; and  
wherein said emergency call transmits any of a group of data files information associated with the user, including identification of the user,

personal medical data file of the user, the measured set of life sign parameters of the user and location of the user.

24. (previously presented) The method of claim 21, wherein said apparatus further comprises an emergency button in communication with said processor and said communication and data connection means, the method further comprising the steps of:

when said emergency button is activated, communication is initiated between said apparatus and any of a group of registered emergency centers;  
and

said emergency call transmitting any of a group of data files information associated with the user, including identification of the user, the personal medical data file of the user, and location of the user.

25. (previously presented) The method of claim 21, further comprising the step of:

communicating, via any one of a group of communication means, with any of a group of service providers including banks, credit card companies, clinics, hospitals and medical insurance companies, municipal and utility entities and websites frequently accessed by said user thereby allowing said user to access and manage said user's personal data and documentation files stored by said group of service providers.

26. (previously presented) The method of claim 21, wherein said apparatus further comprises a magnetic strip element, the method further comprising the step of:

after positive authentication of said user's personal biological identification parameters, activating said magnetic strip thereby allowing said magnetic strip to be read by any of group of devices including a credit card reader, ATM, and point of sale magnetic strip reading device.

27. (previously presented) The method of claim 21, wherein said apparatus further comprises a power charging and data backup device, said device comprising a charging and power unit, an electronic sub unit and a mass memory solid-state memory unit, the method further comprising the steps of:

comparing the memory content of said apparatus first storage unit to the memory content of said mass memory solid-state memory unit; and

if the first storage unit of the apparatus lacks data, updating the first storage unit with the last version of the data stored within the solid-state memory unit; and

if said solid-state memory unit of said device lacks data, updating the solid-state memory unit of said device with the last version of the data stored within said apparatus the solid-state memory unit.

28. (previously presented) The method of claim 21, wherein each of said plurality of unique users is in communication with a system manager, said system manager managing a remote centralized data communication storage and management system of said plurality of unique users, the method further comprising the steps of:

a. said system manager registering each unique user and storing the personal ID data file of each unique user in a memory sub-system connected to said centralized system; and

b. said registration further includes the step wherein said system manager generates for each system user N pairs of two different randomly selected characters strings, each of said strings is a combination of n alphanumeric characters in length; and

c. said system manager storing said N pairs in said system memory sub-system and sending said n characters strings pairs to be stored in said unique user personal identification unit memory module; and

d. said personal identification unit generating a secret access code of L alphanumeric characters to be further stored in said system memory within a special partition containing the list of said secret access codes for said plurality of unique users without assigning any identification or link between the associated users to his registered secret access code.

29. (previously presented) The method of claim 28, wherein after registration and upon normal initiation of communication between said system manager and each unique user, said system manager further communicating with said unique user and first comparing said unique user's ID data file and said personal identification unit

unique embedded characterizing serial number stored in the unique user's personal identification unit with the corresponding user's ID and personal identification data stored in said memory sub-system; and

if the two sets of identification data match;

i. said system manager sending a first string of said stored N strings of coded alphanumeric data, to said user's personal identification unit; and

ii. said user personal identification unit responding with the second matching string from the same stored pair of coded alphanumeric data uniquely associated with said user personal identification unit; and

iii. said system manager comparing the received second string of coded alphanumeric data with a second string of coded alphanumeric data pre-stored in the memory sub-system; and

iv. said system manager comparing for consecutive M out of N times the received additional different strings of coded alphanumeric data pre-stored in the memory of said personal identification unit associated with said unique user with the additional strings of coded alphanumeric data pre-stored in the memory of sub-system; and

v. if all M strings of coded alphanumeric data match, then said system manager declares authenticating of said unique user and permitting said unique user access to said system.

30. (previously presented) The method of claim 29, wherein after said user gains access to said system, said user chooses either to work with the unsecured parts of said system memory or to gain access to said user secured personal data stored in said system memory by sending from said personal identification unit said secret access code that permits each such user sole access to his private secured memory partition in said system memory.

31. (previously presented) The method of claim 28, further comprising the steps of:

after the step of authenticating, said system manager connecting the personal identification unit of said unique user with any of a group of

emergency centers or service providers registered with said system manager at the request of said user personal identification unit; and

in the case of a medical emergency call initiated by said personal identification unit, transferring the user's updated medical data to the emergency center.

32. (currently amended) A system for managing personal and secured data and documentation files of a plurality of unique users, the system comprising:

a. a system manager for managing and updating personal data of said system plurality of unique users and for full-duplex communication with each of said plurality of unique users and a plurality of service providers; and

b. a storage system connected to said system manager to store updated personal data of each of said plurality of unique users;

c. a plurality of personal identification units, each of said personal identification units being associated with a unique user, each unique user being registered with said system manager, each of said personal identification units comprising a storage unit configured to store the personal ID data file of each unique user and a plurality of biometric sensors for reading a plurality of personal biometric biological identification parameters of the user holding the apparatus, said plurality of biometric sensors being integrated within the personal identification units and at least one life signs detector, integrated within said personal identification units, said life signs detector being configured to measure and record at least one of said user's life sign parameters;

d. a plurality of computer hosts and cellular phones in communication with said system manager, enabling the direct connection by said system manager with said plurality of unique users through their corresponding personal identification unit; and

e. a plurality of registered emergency centers and a plurality of registered service providers in communication with said system manager, said plurality of service providers including banks, credit card companies, insurance companies, clinics, hospitals and medical insurance companies, government,

municipal and utility entities and selected websites frequently accessed by said plurality of users;

wherein said system manager's access to and communication with the personal data and documentation files stored in said personal identification units associated with each said unique user and to the personal data and documentation files stored by said group of service providers is only enabled after positive authentication of each of said unique user's personal biometric biological identification parameters by said authentication unit and measuring the normal measured output of each one of said user's life sign parameters;

wherein at least one of said plurality of biometric sensors is a life signs detector, said life signs detector being configured to measure and record at least one of said user's life sign parameters; and

wherein said at least one of said user's life sign parameters is measured by any of a group of life sign indicators including a body pulse rate measurement indicator, a body O<sub>2</sub> saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator.

33. (currently amended) The system according to claim 32, wherein each of said plurality of personal identification units comprises:

i. a sensor module comprising a plurality of biometric sensors for reading a plurality of personal biological biometric identification parameters of the user holding the of personal identification units, said of personal identification units being uniquely identified with said user;

ii. a processor in communication with said sensor module for processing said personal biological identification parameters and for processing and managing the personal and secured data and documentation files associated with said user;

iii. an authentication unit in communication with the processor configured to receive and authenticate the identity of said user by comparing said user's personal biological identification parameters read, by the sensor

module and processed by the processor, with a pre-recorded set of personal biological identification parameters stored in said authentication unit;

iv. an encryption module in communication with said processor for the encryption plus compression and/or decompression plus decryption of said user's data files;

v. a storage unit in communication with said processor and said encryption module for the storage of said user's data and documentation files; and

vi. communication and data connection means in communication with said processor for connecting said of personal identification units with said system manager and plurality of service providers;

34 (previously presented) The system according to claim 33, wherein said system manager is configured:

to communicate with said personal identification units to compare the user's ID data file stored in the unique user's personal identification units with the corresponding identification data stored in said storage unit, and

if the two sets of identification data match, then said system manager is configured to initiate a further level of security identification prior to full communication and data updating capability being enabled between said system manager and said user personal identification unit; and

wherein said further level of security identification comprises said system manager sending a first string of coded alphanumeric data uniquely associated with said user personal identification unit to said user personal identification unit, said personal identification unit responding with a second string of coded alphanumeric data uniquely associated with said user personal identification unit, and said system manager verifying the received second string of coded alphanumeric data with a second string of coded alphanumeric data pre-stored in the memory sub-system; and

said system manager comparing for full matching for N consecutive times received additional different strings of coded alphanumeric data pre-stored in the memory of said personal identification unit associated with said

unique user with counter generated additional strings of coded alphanumeric data pre-stored in the memory of sub-system..

35. (currently amended) The system according to claim 33, wherein said plurality of biometric sensors continuously read a plurality of personal biological identification parameters associated with the user holding his unique personal identification units and in the event that a change occurs in any of the plurality of personal biological biometric identification parameters, access to the stored personal data files is denied and the operation of said identification units is completely shut down.

36. (currently amended) The system according to claim 33, wherein each personal identification unit further comprises an emergency button in communication with said processor and said communication and data connection means module;

~~wherein at least one of said plurality of biometric sensors is a life signs detector, said life signs detector being configured to measure and record at least one of said user's life sign parameters; and~~

~~wherein said at least one of said user's life sign parameters is measured by any of a group of life sign indicators including a body pulse rate measurement indicator, a body O<sub>2</sub> saturation level indicator, a body heat measurement indicator, an electro-dermal activity indicator, a body respiration indicator and a physical or emotional stress indicator; and~~

wherein the personal identification unit is configured to initiate an emergency call to any of said plurality of registered emergency centers, whenever said emergency button is activated or whenever any of the group of life sign indicators detects a critical level; and

wherein the personal identification unit is configured to transmit any of a group of data files containing information associated with the user, including the identification data of the user, personal medical data file of the user, the measured set of life sign parameters of the user and location of the user.

37. (previously presented) The system of claim 32, wherein said system, further comprises:

a computerized call center configured to receive phone calls or emergency voice and data messages from any of said plurality of registered emergency centers and a plurality of registered service providers and to communicate with any of said plurality of cellular phone and host computers; and

wherein said call center is configured to communicate the user's location coordinates to an emergency rescue team and simultaneously said call center is configured to communicate with any of said plurality of registered emergency centers and service providers to receive said user's updated medical data and to transfer said data to the user's personal identification unit.

38. (previously presented) The apparatus according to claim 1, further comprising:

an encryption unit in communication with said processor for the encryption plus compression and for the decompression plus decryption of said user's data files.

39. (NEW) --The apparatus according to claim 1, further comprising:

an emergency button in communication with said processor and said communication and data connection means module;

wherein on said emergency button being activated, communication is initiated between said apparatus and any of a group of registered emergency centers, said emergency call transmitting any of a group of data files containing information associated with the unique user of said apparatus, including the identification data of said user, the personal medical data file of said user, and location of said user.--

### **Remarks/Arguments**

This amendment is being filed in response to the receipt of a Final Office Action dated August 24, 2012, from the United States Patent and Trademark Office in connection with the above identified application.

Claims 1-38 are pending in the application. New Claim 39 has been added.

Claim 3 has been cancelled.

Claims 1, 4, 5, 6, 9, 13, 15, 16, 20, 21, 22, 23, 32, 33, 35 and 36 have been amended

Reconsideration of the rejections is respectfully requested.

### **Interview Summary**

Initially, Applicants wishes to thank the Examiners, Jerry O'CONNOR and Hiep Van NGUYEN, for granting and attending the telephone interview held on November 14, 2012 with the inventors and Applicants' Representative, Henry Sinai.

During the interview, the claims, specifically claim 1, were discussed, as was the cited prior art of Mass et al (US 2009/0062887) and Moran (US 6,539,880). Applicant's response is presented below.

Applicants wishes to thank the Examiners, Jerry O'CONNOR and Hiep Van NGUYEN, for their professional and positive approach in analyzing the prior art vis-avis the claims so as to facilitate the allowance of the application.

### **Remarks**

Applicants would like to gratefully acknowledge the Examiner's indication that independent claim 1 would be allowable if the limitations of the "biometric identification parameters" and "the life signs detector" disclosed in claim 3 were included in claim 1.

Independent claim 1 has been amended to include the limitations of claim 3, namely the "at least one life signs detector, said life signs detector being configured to measure and record at least one of said user's life sign parameters". Applicant respectfully submits that Claim 1 is thus allowable over the art of record.

Claim 3 has been cancelled. Claims 4-6, 9, 13 and 15-16 have been amended to match the changes made to the amended independent claim 1. Claim 39, which

discloses the features deleted from claim 6, has been added. No new matter has been added.

Since claims 2, and 4-20, depend from claim 1, claims 2 and 4-20 are also believed to be allowable over the art of record.

The corresponding independent method claim 21 has been amended to include the limitations of “the life signs detector”. Applicant respectfully submits that Claim 21 is thus allowable over the art of record.

Claims 22 and 23 have been amended to match the changes made to the amended independent claim 21. No new matter has been added.

Since claims 22-31 depend from claim 21, claims 22-31 are also believed to be allowable over the art of record.

The corresponding independent system claim 32 has been amended to include the limitations of “the life signs detector”.

Applicant respectfully submits that Claim 32 is thus allowable over the art of record.

Claims 33, 35 and 36 have been amended to match the changes made to the amended independent claim 32. No new matter has been added.

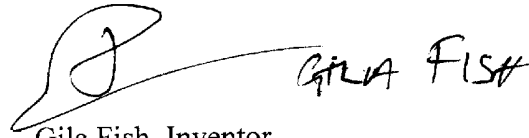
Since claims 33-38, depend from claim 32, claims 33-38 are also believed to be allowable over the art of record.

Should the Examiner have any question or comment as to the form, content or entry of this Amendment, the Examiner is requested to contact the undersigned at the telephone number below. Similarly, if there are any further issues yet to be resolved to advance the prosecution of this application to issue, the Examiner is requested to telephone, communicate via mail, Fax and email to the undersigned counsel.

In view of the above amendments and remarks, it is respectfully submitted that the claims, namely claims 1-2 and 4-39 are patentable over the art of record and are now in condition for allowance. Prompt notice of allowance is respectfully solicited.

Ser. No. 12/849,971  
Art Unit 3686  
Amendment dated November 20, 2012  
Amendment after Final

Respectfully submitted,

  
Gila Fish, Inventor

Avner Korman, Inventor



c/o Customer No: 35650  
Henry Sinai  
(IP-Partnership)  
PO Box 669  
Raanana 43350, Israel  
Phone: +972 9746 0363  
Fax: +972 9744 5018  
Email: [hsinai@ip-partnership.com](mailto:hsinai@ip-partnership.com)  
FAX (USA ONLY) 800-243-2384

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| <b>Confirmation Number:</b>                 | 8890                                                 |
| <b>Title of Invention:</b>                  | SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM |
| <b>First Named Inventor/Applicant Name:</b> | Gila FISH                                            |
| <b>Customer Number:</b>                     | 35650                                                |
| <b>Filer:</b>                               | Henry M. Sinai                                       |
| <b>Filer Authorized By:</b>                 |                                                      |
| <b>Attorney Docket Number:</b>              | OSH-2799-US                                          |
| <b>Receipt Date:</b>                        | 26-NOV-2012                                          |
| <b>Filing Date:</b>                         | 04-AUG-2010                                          |
| <b>Time Stamp:</b>                          | 10:09:24                                             |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

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| 1               | Amendment After Final | OSH_2799US_AMENDafterFinal.pdf | 177494<br>78afc0606cd6f721e189efdc997ccaddf8f05d6e | no               | 19               |

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| <b>PATENT APPLICATION FEE DETERMINATION RECORD</b><br>Substitute for Form PTO-875                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                               |                                  |            |                                    | Application or Docket Number<br><b>12/849,971</b> |                                                     | Filing Date<br><b>08/04/2010</b> |                         | <input type="checkbox"/> To be Mailed |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------|------------------------------------|---------------------------------------------------|-----------------------------------------------------|----------------------------------|-------------------------|---------------------------------------|---------------------|
| <b>APPLICATION AS FILED – PART I</b>                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                               |                                  |            |                                    |                                                   |                                                     |                                  |                         |                                       |                     |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                               |                                  | (Column 2) |                                    |                                                   | SMALL ENTITY <input checked="" type="checkbox"/> OR |                                  | OTHER THAN SMALL ENTITY |                                       |                     |
| FOR                                                                                                                                                                                                                                                                                                                                                                                                                                  | NUMBER FILED                                                                                                                                                                                                                  | NUMBER EXTRA                     | RATE (\$)  | FEE (\$)                           |                                                   | RATE (\$)                                           | FEE (\$)                         |                         |                                       |                     |
| <input type="checkbox"/> BASIC FEE<br>(37 CFR 1.16(a), (b), or (c))                                                                                                                                                                                                                                                                                                                                                                  | N/A                                                                                                                                                                                                                           | N/A                              | N/A        |                                    |                                                   | N/A                                                 |                                  |                         |                                       |                     |
| <input type="checkbox"/> SEARCH FEE<br>(37 CFR 1.16(k), (l), or (m))                                                                                                                                                                                                                                                                                                                                                                 | N/A                                                                                                                                                                                                                           | N/A                              | N/A        |                                    |                                                   | N/A                                                 |                                  |                         |                                       |                     |
| <input type="checkbox"/> EXAMINATION FEE<br>(37 CFR 1.16(o), (p), or (q))                                                                                                                                                                                                                                                                                                                                                            | N/A                                                                                                                                                                                                                           | N/A                              | N/A        |                                    |                                                   | N/A                                                 |                                  |                         |                                       |                     |
| TOTAL CLAIMS<br>(37 CFR 1.16(i))                                                                                                                                                                                                                                                                                                                                                                                                     | minus 20 =                                                                                                                                                                                                                    | *                                | X \$ =     |                                    | OR                                                | X \$ =                                              |                                  |                         |                                       |                     |
| INDEPENDENT CLAIMS<br>(37 CFR 1.16(h))                                                                                                                                                                                                                                                                                                                                                                                               | minus 3 =                                                                                                                                                                                                                     | *                                | X \$ =     |                                    |                                                   | X \$ =                                              |                                  |                         |                                       |                     |
| <input type="checkbox"/> APPLICATION SIZE FEE<br>(37 CFR 1.16(s))                                                                                                                                                                                                                                                                                                                                                                    | If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). |                                  |            |                                    |                                                   |                                                     |                                  |                         |                                       |                     |
| <input type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                               |                                  |            |                                    |                                                   |                                                     |                                  |                         |                                       |                     |
| * If the difference in column 1 is less than zero, enter "0" in column 2.                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                               |                                  | TOTAL      |                                    |                                                   | TOTAL                                               |                                  |                         |                                       |                     |
| <b>APPLICATION AS AMENDED – PART II</b>                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                               |                                  |            |                                    |                                                   |                                                     |                                  |                         |                                       |                     |
| (Column 1)                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                               |                                  | (Column 2) |                                    |                                                   | SMALL ENTITY OR                                     |                                  | OTHER THAN SMALL ENTITY |                                       |                     |
| <b>AMENDMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>11/26/2012</b>                                                                                                                                                                                                             | CLAIMS REMAINING AFTER AMENDMENT |            | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA                                     | RATE (\$)                                           | ADDITIONAL FEE (\$)              |                         | RATE (\$)                             | ADDITIONAL FEE (\$) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      | Total (37 CFR 1.16(i))                                                                                                                                                                                                        | * 38                             | Minus      | ** 37                              | = 1                                               | X \$31 =                                            | 31                               | OR                      | X \$ =                                |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      | Independent (37 CFR 1.16(h))                                                                                                                                                                                                  | * 3                              | Minus      | ***3                               | = 0                                               | X \$125 =                                           | 0                                | OR                      | X \$ =                                |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                |                                  |            |                                    |                                                   |                                                     |                                  |                         |                                       |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                      |                                  |            |                                    |                                                   |                                                     |                                  |                         |                                       |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                               |                                  |            |                                    |                                                   | TOTAL ADD'L FEE                                     | <b>31</b>                        | OR                      | TOTAL ADD'L FEE                       |                     |
| <b>AMENDMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                               | CLAIMS REMAINING AFTER AMENDMENT |            | HIGHEST NUMBER PREVIOUSLY PAID FOR | PRESENT EXTRA                                     | RATE (\$)                                           | ADDITIONAL FEE (\$)              |                         | RATE (\$)                             | ADDITIONAL FEE (\$) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      | Total (37 CFR 1.16(i))                                                                                                                                                                                                        | *                                | Minus      | **                                 | =                                                 | X \$ =                                              |                                  | OR                      | X \$ =                                |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      | Independent (37 CFR 1.16(h))                                                                                                                                                                                                  | *                                | Minus      | ***                                | =                                                 | X \$ =                                              |                                  | OR                      | X \$ =                                |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> Application Size Fee (37 CFR 1.16(s))                                                                                                                                                                |                                  |            |                                    |                                                   |                                                     |                                  |                         |                                       |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      | <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))                                                                                                                                      |                                  |            |                                    |                                                   |                                                     |                                  |                         |                                       |                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                               |                                  |            |                                    |                                                   | TOTAL ADD'L FEE                                     |                                  | OR                      | TOTAL ADD'L FEE                       |                     |
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|---------------------------------------------------------------------------------------------------------|-------------|----------------------|------------------------------|------------------------|
| 12/849,971                                                                                              | 08/04/2010  | Gila FISH            | OSH-2799-US                  | 8890                   |
| 35650 7590 11/27/2012<br>HENRY M. SINAI<br>(IP-PARTNERSHIP)<br>P.O. BOX 669<br>RAANANA, 43350<br>ISRAEL |             |                      | EXAMINER<br>NGUYEN, HIEP VAN |                        |
|                                                                                                         |             |                      | ART UNIT<br>3686             | PAPER NUMBER           |
|                                                                                                         |             |                      | MAIL DATE<br>11/27/2012      | DELIVERY MODE<br>PAPER |

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                                                     |                                      |                                    |  |
|-----------------------------------------------------|--------------------------------------|------------------------------------|--|
| <b><i>Applicant-Initiated Interview Summary</i></b> | <b>Application No.</b><br>12/849,971 | <b>Applicant(s)</b><br>FISH ET AL. |  |
|                                                     | <b>Examiner</b><br>HIEP V. NGUYEN    | <b>Art Unit</b><br>3686            |  |

All participants (applicant, applicant's representative, PTO personnel):

(1) HIEP V. NGUYEN. (3) GILA FISHER and AVNER KORMAN.

(2) HENRY SINAI (Reg.35650). (4) JERRY O'CONNOR.

Date of Interview: 14 November 2012.

Type: ☒ Telephonic ☐ Video Conference  
☐ Personal [copy given to: ☐ applicant ☐ applicant's representative]

Exhibit shown or demonstration conducted: ☐ Yes ☒ No.  
If Yes, brief description: \_\_\_\_\_.

Issues Discussed ☐101 ☐112 ☐102 ☒103 ☐Others  
(For each of the checked box(es) above, please describe below the issue and detailed description of the discussion)

Claim(s) discussed: 1.

Identification of prior art discussed: Mass (US. 20090062887) and Moran (US. 6,539,380).

**Substance of Interview**  
(For each issue discussed, provide a detailed description and indicate if agreement was reached. Some topics may include: identification or clarification of a reference or a portion thereof, claim interpretation, proposed amendments, arguments of any applied references etc...)

*Discussed potential amendment for claim 1 to overcome prior art rejection. The proposed amedment is subjected further consideration..*

**Applicant recordation instructions:** The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview

**Examiner recordation instructions:** Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

☐ Attachment

|                                                    |  |
|----------------------------------------------------|--|
| /HIEP V NGUYEN/<br>Primary Examiner, Art Unit 3686 |  |
|----------------------------------------------------|--|

## Summary of Record of Interview Requirements

### Manual of Patent Examining Procedure (MPEP), Section 713.04, Substance of Interview Must be Made of Record

A complete written statement as to the substance of any face-to-face, video conference, or telephone interview with regard to an application must be made of record in the application whether or not an agreement with the examiner was reached at the interview.

#### Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews

Paragraph (b)

In every instance where reconsideration is requested in view of an interview with an examiner, a complete written statement of the reasons presented at the interview as warranting favorable action must be filed by the applicant. An interview does not remove the necessity for reply to Office action as specified in §§ 1.111, 1.135. (35 U.S.C. 132)

37 CFR §1.2 Business to be transacted in writing.

All business with the Patent or Trademark Office should be transacted in writing. The personal attendance of applicants or their attorneys or agents at the Patent and Trademark Office is unnecessary. The action of the Patent and Trademark Office will be based exclusively on the written record in the Office. No attention will be paid to any alleged oral promise, stipulation, or understanding in relation to which there is disagreement or doubt.

The action of the Patent and Trademark Office cannot be based exclusively on the written record in the Office if that record is itself incomplete through the failure to record the substance of interviews.

It is the responsibility of the applicant or the attorney or agent to make the substance of an interview of record in the application file, unless the examiner indicates he or she will do so. It is the examiner's responsibility to see that such a record is made and to correct material inaccuracies which bear directly on the question of patentability.

Examiners must complete an Interview Summary Form for each interview held where a matter of substance has been discussed during the interview by checking the appropriate boxes and filling in the blanks. Discussions regarding only procedural matters, directed solely to restriction requirements for which interview recordation is otherwise provided for in Section 812.01 of the Manual of Patent Examining Procedure, or pointing out typographical errors or unreadable script in Office actions or the like, are excluded from the interview recordation procedures below. Where the substance of an interview is completely recorded in an Examiners Amendment, no separate Interview Summary Record is required.

The Interview Summary Form shall be given an appropriate Paper No., placed in the right hand portion of the file, and listed on the "Contents" section of the file wrapper. In a personal interview, a duplicate of the Form is given to the applicant (or attorney or agent) at the conclusion of the interview. In the case of a telephone or video-conference interview, the copy is mailed to the applicant's correspondence address either with or prior to the next official communication. If additional correspondence from the examiner is not likely before an allowance or if other circumstances dictate, the Form should be mailed promptly after the interview rather than with the next official communication.

The Form provides for recordation of the following information:

- Application Number (Series Code and Serial Number)
- Name of applicant
- Name of examiner
- Date of interview
- Type of interview (telephonic, video-conference, or personal)
- Name of participant(s) (applicant, attorney or agent, examiner, other PTO personnel, etc.)
- An indication whether or not an exhibit was shown or a demonstration conducted
- An identification of the specific prior art discussed
- An indication whether an agreement was reached and if so, a description of the general nature of the agreement (may be by attachment of a copy of amendments or claims agreed as being allowable). Note: Agreement as to allowability is tentative and does not restrict further action by the examiner to the contrary.
- The signature of the examiner who conducted the interview (if Form is not an attachment to a signed Office action)

It is desirable that the examiner orally remind the applicant of his or her obligation to record the substance of the interview of each case. It should be noted, however, that the Interview Summary Form will not normally be considered a complete and proper recordation of the interview unless it includes, or is supplemented by the applicant or the examiner to include, all of the applicable items required below concerning the substance of the interview.

A complete and proper recordation of the substance of any interview should include at least the following applicable items:

- 1) A brief description of the nature of any exhibit shown or any demonstration conducted,
- 2) an identification of the claims discussed,
- 3) an identification of the specific prior art discussed,
- 4) an identification of the principal proposed amendments of a substantive nature discussed, unless these are already described on the Interview Summary Form completed by the Examiner,
- 5) a brief identification of the general thrust of the principal arguments presented to the examiner,  
(The identification of arguments need not be lengthy or elaborate. A verbatim or highly detailed description of the arguments is not required. The identification of the arguments is sufficient if the general nature or thrust of the principal arguments made to the examiner can be understood in the context of the application file. Of course, the applicant may desire to emphasize and fully describe those arguments which he or she feels were or might be persuasive to the examiner.)
- 6) a general indication of any other pertinent matters discussed, and
- 7) if appropriate, the general results or outcome of the interview unless already described in the Interview Summary Form completed by the examiner.

Examiners are expected to carefully review the applicant's record of the substance of an interview. If the record is not complete and accurate, the examiner will give the applicant an extendable one month time period to correct the record.

#### Examiner to Check for Accuracy

If the claims are allowable for other reasons of record, the examiner should send a letter setting forth the examiner's version of the statement attributed to him or her. If the record is complete and accurate, the examiner should place the indication, "Interview Record OK" on the paper recording the substance of the interview along with the date and the examiner's initials.



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

35650 7590 01/22/2013  
HENRY M. SINAI  
(IP-PARTNERSHIP)  
P.O. BOX 669  
RAANANA, 43350  
ISRAEL

|                  |              |
|------------------|--------------|
| EXAMINER         |              |
| NGUYEN, HIEP VAN |              |
| ART UNIT         | PAPER NUMBER |
| 3686             |              |

DATE MAILED: 01/22/2013

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 12/849,971      | 08/04/2010  | Gila FISH            | OSH-2799-US         | 8890             |

TITLE OF INVENTION: SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | YES          | \$885         | \$300               | \$0                  | \$1185           | 04/22/2013 |

**THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.**

**THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.**

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

**IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.**

# PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: **Mail** **Mail Stop ISSUE FEE**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, Virginia 22313-1450**  
**or Fax (571)-273-2885**

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

## Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

|                    |
|--------------------|
| (Depositor's name) |
| (Signature)        |
| (Date)             |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 12/849,971      | 08/04/2010  | Gila FISH            | OSH-2799-US         | 8890             |

TITLE OF INVENTION: SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM

| APPLN. TYPE    | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | YES          | \$885         | \$300               | \$0                  | \$1185           | 04/22/2013 |

| EXAMINER         | ART UNIT | CLASS-SUBCLASS |
|------------------|----------|----------------|
| NGUYEN, HIEP VAN | 3686     | 705-003000     |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.
- ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 1 \_\_\_\_\_
- (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 2 \_\_\_\_\_
- 3 \_\_\_\_\_

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☐ Issue Fee
- ☐ Publication Fee (No small entity discount permitted)
- ☐ Advance Order - # of Copies \_\_\_\_\_

4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)

- ☐ A check is enclosed.
- ☐ Payment by credit card. Form PTO-2038 is attached.
- ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_ (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Typed or printed name \_\_\_\_\_

Registration No. \_\_\_\_\_

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# UNITED STATES PATENT AND TRADEMARK OFFICE

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|                                                                                |             |                      |                     |                  |
|--------------------------------------------------------------------------------|-------------|----------------------|---------------------|------------------|
| APPLICATION NO.                                                                | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
| 12/849,971                                                                     | 08/04/2010  | Gila FISH            | OSH-2799-US         | 8890             |
| 35650                                                                          | 7590        | 01/22/2013           | EXAMINER            |                  |
| HENRY M. SINAI<br>(IP-PARTNERSHIP)<br>P.O. BOX 669<br>RAANANA, 43350<br>ISRAEL |             |                      | NGUYEN, HIEP VAN    |                  |
|                                                                                |             |                      | ART UNIT            | PAPER NUMBER     |
|                                                                                |             |                      | 3686                |                  |
| DATE MAILED: 01/22/2013                                                        |             |                      |                     |                  |

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 109 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 109 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

## Privacy Act Statement

**The Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

|                               |                        |                     |  |
|-------------------------------|------------------------|---------------------|--|
| <b>Notice of Allowability</b> | <b>Application No.</b> | <b>Applicant(s)</b> |  |
|                               | 12/849,971             | FISH ET AL.         |  |
|                               | <b>Examiner</b>        | <b>Art Unit</b>     |  |
|                               | HIEP V. NGUYEN         | 3686                |  |

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/26/2012.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on \_\_\_\_; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1,2 and 4-39. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see [http://www.uspto.gov/patents/init\\_events/pph/index.jsp](http://www.uspto.gov/patents/init_events/pph/index.jsp) or send an inquiry to [PPHfeedback@uspto.gov](mailto:PPHfeedback@uspto.gov).

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:  
         1. ☐ Certified copies of the priority documents have been received.  
         2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_ .  
         3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  
     \* Certified copies not received: \_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  
     ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_.

**Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

|                                                                                                            |                                                                                      |
|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)                                           | 5. <input type="checkbox"/> Examiner's Amendment/Comment                             |
| 2. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date ____     | 6. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| 3. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 7. <input type="checkbox"/> Other ____.                                              |
| 4. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date ____ .                     |                                                                                      |

|                                                    |  |
|----------------------------------------------------|--|
| /HIEP V NGUYEN/<br>Primary Examiner, Art Unit 3686 |  |
|----------------------------------------------------|--|

***Reasons for Allowance***

1. The following is an examiner's statement of reasons for allowance: Claims 1-2, 4-39 are allowed.

Claim 1 is directed to an apparatus for storing and managing personal and secured data and documentation files associated with a specific user, comprising:

- a plurality of biometric sensors for reading a plurality of personal biological biometric identification parameters of the user holding the apparatus, said plurality of biometric sensors being integrated within the apparatus;
- at least one life signs detector integrated within the apparatus, said life signs detector being configured to measure and record at least one of said user's life sign parameters;
- a first storage unit for the storage of said user's data and documentation files;
- an authentication unit comprising a second storage unit, with said second storage unit configured to store a pre-recorded set of personal biological biometric identification parameters uniquely associated with the specific user, wherein said authentication unit is configured to compare the plurality of personal biological biometric identification parameters of the user holding the apparatus with the pre-recorded set of personal biological biometric identification parameters stored in said second storage unit;
- a processor in communication with said plurality of biometric sensors, said first storage unit and said authentication unit;

Art Unit: 3686

wherein access to the personal data and documentation files stored in said first storage unit is only enabled after said authentication unit positively matches each of the plurality of personal biological biometric identification parameters of the user holding the apparatus with the pre-recorded set of personal biological identification parameters stored in said second storage unit, and

wherein, whenever any of said at least one life signs detector detects a critical level of said user measured life sign parameters, the apparatus is configured to prevent access to said user's personal data and documentation files stored in said first storage unit

Claim 1 closely relates to wireless patient communicator for use in a life critical network of Mass (US. 20090062887) and data access control of Moran (US 6,539,380). Mass discloses a system, devices, and method to transport medical information over a wireless network with a portable device communicating with a patient implantable medical device and wireless network connection. Moran discloses a method and system for providing control of access to data which is stored in an electronic data storage device.

However, the prior arts fail to disclose at least one life signs detector integrated within the apparatus, said life signs detector being configured to measure and record at least one of said user's life sign parameters.

Claims 2, 4-20, 38-39 are dependent from claim 1 and are allowed for the same reason given above.

Claims 21-31 incorporate all the limitations of claim 1 and are allowed for the same reasons given above.

Claims 32-37 incorporate all the limitations of claim 1 and are allowed for the same reasons given above.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HIEP V. NGUYEN whose telephone number is (571) 270-5211. The examiner can normally be reached on Monday through Friday between 8:00AM and 5:00PM.

4. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry O'Connor can be reached on 5712726787. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic

Art Unit: 3686

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or (571) 272-1000.

6. Official replies to this Office action may now be submitted electronically by registered users of the EFS-Web system. Information on EFS-Web tools is available on the Internet at: <http://www.uspto.gov/patents/process/file/efs/guidance/index.jsp>. An EFS-Web Quick-Start Guide is available at: <http://www.uspto.gov/ebc/portal/efs/quick-start.pdf>.

7. Alternatively, official replies to this Office action may still be submitted by any **one** of fax, mail, or hand delivery. **Faxed replies should be directed to the central fax at (571) 273-8300.** Mailed replies should be addressed to "Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450." Hand delivered replies should be delivered to the "Customer Service Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314."

/HIEP V NGUYEN/  
Primary Examiner, Art Unit 3686

|                                                                                                                    |                                            |                                                               |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| <b><i>Index of Claims</i></b><br> | <b>Application/Control No.</b><br>12849971 | <b>Applicant(s)/Patent Under Reexamination</b><br>FISH ET AL. |
|                                                                                                                    | <b>Examiner</b><br>HIEP V NGUYEN           | <b>Art Unit</b><br>3686                                       |

|   |                 |   |                   |   |                     |   |                 |
|---|-----------------|---|-------------------|---|---------------------|---|-----------------|
| ✓ | <b>Rejected</b> | - | <b>Cancelled</b>  | N | <b>Non-Elected</b>  | A | <b>Appeal</b>   |
| = | <b>Allowed</b>  | ÷ | <b>Restricted</b> | I | <b>Interference</b> | O | <b>Objected</b> |

☐ Claims renumbered in the same order as presented by applicant
 ☐ CPA
 ☐ T.D.
 ☐ R.1.47

| CLAIM |          | DATE       |            |            |  |  |  |  |  |  |
|-------|----------|------------|------------|------------|--|--|--|--|--|--|
| Final | Original | 02/22/2012 | 08/22/2012 | 12/11/2012 |  |  |  |  |  |  |
| 1     | 1        | ✓          | ✓          | =          |  |  |  |  |  |  |
| 2     | 2        | ✓          | ✓          | =          |  |  |  |  |  |  |
|       | 3        | ✓          | ✓          | -          |  |  |  |  |  |  |
| 3     | 4        | ✓          | ✓          | =          |  |  |  |  |  |  |
| 5     | 5        | ✓          | ✓          | =          |  |  |  |  |  |  |
| 4     | 6        | ✓          | ✓          | =          |  |  |  |  |  |  |
| 6     | 7        | ✓          | ✓          | =          |  |  |  |  |  |  |
| 7     | 8        | ✓          | ✓          | =          |  |  |  |  |  |  |
| 8     | 9        | ✓          | ✓          | =          |  |  |  |  |  |  |
| 9     | 10       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 11    | 11       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 12    | 12       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 13    | 13       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 14    | 14       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 15    | 15       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 16    | 16       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 11    | 17       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 17    | 18       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 18    | 19       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 19    | 20       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 22    | 21       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 23    | 22       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 24    | 23       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 25    | 24       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 26    | 25       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 27    | 26       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 28    | 27       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 29    | 28       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 30    | 29       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 31    | 30       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 32    | 31       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 33    | 32       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 34    | 33       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 35    | 34       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 36    | 35       | ✓          | ✓          | =          |  |  |  |  |  |  |
| 37    | 36       | ✓          | ✓          | =          |  |  |  |  |  |  |

|                                                                                                                    |                                            |                                                               |
|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| <b><i>Index of Claims</i></b><br> | <b>Application/Control No.</b><br>12849971 | <b>Applicant(s)/Patent Under Reexamination</b><br>FISH ET AL. |
|                                                                                                                    | <b>Examiner</b><br>HIEP V NGUYEN           | <b>Art Unit</b><br>3686                                       |

|   |                 |   |                   |   |                     |   |                 |
|---|-----------------|---|-------------------|---|---------------------|---|-----------------|
| ✓ | <b>Rejected</b> | - | <b>Cancelled</b>  | N | <b>Non-Elected</b>  | A | <b>Appeal</b>   |
| = | <b>Allowed</b>  | ÷ | <b>Restricted</b> | I | <b>Interference</b> | O | <b>Objected</b> |

| <input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47 |          |            |            |            |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|------------|------------|--|--|--|--|--|
| CLAIM                                                                                                                                                                             |          | DATE       |            |            |  |  |  |  |  |
| Final                                                                                                                                                                             | Original | 02/22/2012 | 08/22/2012 | 12/11/2012 |  |  |  |  |  |
| 38                                                                                                                                                                                | 37       | ✓          | ✓          | =          |  |  |  |  |  |
| 20                                                                                                                                                                                | 38       |            | ✓          | =          |  |  |  |  |  |
| 21                                                                                                                                                                                | 39       |            |            | =          |  |  |  |  |  |

|                                                                                                                  |                                            |                                                               |
|------------------------------------------------------------------------------------------------------------------|--------------------------------------------|---------------------------------------------------------------|
| <b>Issue Classification</b><br> | <b>Application/Control No.</b><br>12849971 | <b>Applicant(s)/Patent Under Reexamination</b><br>FISH ET AL. |
|                                                                                                                  | <b>Examiner</b><br>HIEP V NGUYEN           | <b>Art Unit</b><br>3686                                       |

| ORIGINAL           |                                   |  |          |  |  | INTERNATIONAL CLASSIFICATION |   |   |   |                      |             |  |  |  |    |  |  |
|--------------------|-----------------------------------|--|----------|--|--|------------------------------|---|---|---|----------------------|-------------|--|--|--|----|--|--|
| CLASS              |                                   |  | SUBCLASS |  |  | CLAIMED                      |   |   |   |                      | NON-CLAIMED |  |  |  |    |  |  |
| 705                |                                   |  | 3        |  |  | G                            | 0 | 6 | Q | 10 / 00 (2012.01.01) |             |  |  |  |    |  |  |
| CROSS REFERENCE(S) |                                   |  |          |  |  | G                            | 0 | 8 | F | 17 / 30 ( )          |             |  |  |  |    |  |  |
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| CLASS              | SUBCLASS (ONE SUBCLASS PER BLOCK) |  |          |  |  |                              |   |   |   |                      |             |  |  |  |    |  |  |
| 707                | 9                                 |  |          |  |  |                              |   |   |   |                      |             |  |  |  |    |  |  |
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| <input type="checkbox"/> Claims renumbered in the same order as presented by applicant <input type="checkbox"/> CPA <input type="checkbox"/> T.D. <input type="checkbox"/> R.1.47 |          |       |          |       |          |       |          |       |          |       |          |       |          |       |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|
| Final                                                                                                                                                                             | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original | Final | Original |
| 1                                                                                                                                                                                 | 1        | 11    | 17       | 34    | 33       |       |          |       |          |       |          |       |          |       |          |
| 2                                                                                                                                                                                 | 2        | 17    | 18       | 35    | 34       |       |          |       |          |       |          |       |          |       |          |
|                                                                                                                                                                                   | 3        | 18    | 19       | 36    | 35       |       |          |       |          |       |          |       |          |       |          |
| 3                                                                                                                                                                                 | 4        | 19    | 20       | 37    | 36       |       |          |       |          |       |          |       |          |       |          |
| 5                                                                                                                                                                                 | 5        | 22    | 21       | 38    | 37       |       |          |       |          |       |          |       |          |       |          |
| 4                                                                                                                                                                                 | 6        | 23    | 22       | 20    | 38       |       |          |       |          |       |          |       |          |       |          |
| 6                                                                                                                                                                                 | 7        | 24    | 23       | 21    | 39       |       |          |       |          |       |          |       |          |       |          |
| 7                                                                                                                                                                                 | 8        | 25    | 24       |       |          |       |          |       |          |       |          |       |          |       |          |
| 8                                                                                                                                                                                 | 9        | 26    | 25       |       |          |       |          |       |          |       |          |       |          |       |          |
| 9                                                                                                                                                                                 | 10       | 27    | 26       |       |          |       |          |       |          |       |          |       |          |       |          |
| 10                                                                                                                                                                                | 11       | 28    | 27       |       |          |       |          |       |          |       |          |       |          |       |          |
| 12                                                                                                                                                                                | 12       | 29    | 28       |       |          |       |          |       |          |       |          |       |          |       |          |
| 13                                                                                                                                                                                | 13       | 30    | 29       |       |          |       |          |       |          |       |          |       |          |       |          |
| 14                                                                                                                                                                                | 14       | 31    | 30       |       |          |       |          |       |          |       |          |       |          |       |          |
| 15                                                                                                                                                                                | 15       | 32    | 31       |       |          |       |          |       |          |       |          |       |          |       |          |
| 16                                                                                                                                                                                | 16       | 33    | 32       |       |          |       |          |       |          |       |          |       |          |       |          |

|                                                   |  |                              |                     |
|---------------------------------------------------|--|------------------------------|---------------------|
| NONE                                              |  | <b>Total Claims Allowed:</b> |                     |
| (Assistant Examiner)                              |  | 38                           |                     |
| (Date)                                            |  |                              |                     |
| /HIEP V NGUYEN/<br>Primary Examiner.Art Unit 3686 |  | 12/11/2012                   | O.G. Print Claim(s) |
| (Primary Examiner)                                |  | (Date)                       | O.G. Print Figure   |
|                                                   |  | 1                            | 1                   |

Ser. No. 12/849,971  
 Art Unit 3686  
 Amendment dated November 20, 2012  
 Amendment after Final

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (currently amended) Apparatus for storing and managing personal and secured data and documentation files associated with a specific user, comprising:

a plurality of biometric sensors for reading a plurality of personal biological biometric identification parameters of the user holding the apparatus, said plurality of biometric sensors being integrated within the apparatus;

at least one life signs detector integrated within the apparatus, said life signs detector being configured to measure and record at least one of said user's life sign parameters;

a first storage unit for the storage of said user's data and documentation files;

an authentication unit comprising a second storage unit, with said second storage unit configured to store a pre-recorded set of personal biological biometric identification parameters uniquely associated with the specific user, wherein said authentication unit is configured to compare the plurality of personal biological biometric identification parameters of the user holding the apparatus with the pre-recorded set of personal biological biometric identification parameters stored in said second storage unit;

a processor in communication with said plurality of biometric sensors, said first storage unit and said authentication unit;

wherein access to the personal data and documentation files stored in said first storage unit is only enabled after said authentication unit positively matches each of the plurality of personal biological biometric identification parameters of the user holding the apparatus with the pre-recorded set of personal biological identification parameters stored in said second storage unit; and

|                                                                                                                     |                                                |                                                                   |
|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------|
| <b><i>Search Notes</i></b><br><br> | <b>Application/Control No.</b><br><br>12849971 | <b>Applicant(s)/Patent Under Reexamination</b><br><br>FISH ET AL. |
|                                                                                                                     | <b>Examiner</b><br><br>HIEP V NGUYEN           | <b>Art Unit</b><br><br>3686                                       |

|                 |                 |             |                 |
|-----------------|-----------------|-------------|-----------------|
| <b>SEARCHED</b> |                 |             |                 |
| <b>Class</b>    | <b>Subclass</b> | <b>Date</b> | <b>Examiner</b> |
| 705             | 3               | 2/22/2012   | HVN             |

|                                                         |             |                 |
|---------------------------------------------------------|-------------|-----------------|
| <b>SEARCH NOTES</b>                                     |             |                 |
| <b>Search Notes</b>                                     | <b>Date</b> | <b>Examiner</b> |
| Search EAST: See attached search history                | 2/22/2012   | HVN             |
| Reviewed and considered search search template_12849971 | 12/11/2012  | HVN             |

|                            |                 |             |                 |
|----------------------------|-----------------|-------------|-----------------|
| <b>INTERFERENCE SEARCH</b> |                 |             |                 |
| <b>Class</b>               | <b>Subclass</b> | <b>Date</b> | <b>Examiner</b> |
| Search all of above        |                 | 12/11/2012  | HVN             |

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| /H.V.N./<br>Examiner.Art Unit 3686 | /H.V.N./<br>Primary Examiner.Art Unit 3686 |
|------------------------------------|--------------------------------------------|

**PART B - FEE(S) TRANSMITTAL**

Complete and send this form, together with applicable fee(s), to: **Mail Stop ISSUE FEE**  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, Virginia 22313-1450**  
 or **Fax (571)-273-2885**

**INSTRUCTIONS:** This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

**CURRENT CORRESPONDENCE ADDRESS (Name):** Use Block 1 for any change of address:

55635 7590 01/25/2013  
**HENRY M. SINAI**  
**(IP-PARTNERSHIP)**  
**P.O. BOX 669**  
**RAANANA, 43350**  
**ISRAEL**

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**Certificate of Mailing or Transmission**

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.

|                   |
|-------------------|
| Depositor's name: |
| Signature:        |
| Date:             |

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 12/849,971      | 08/04/2010  | CHS PISH             | OSH-2799-US         | 8890             |

**TITLE OF INVENTION:** SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM

| APPL. TYPE     | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE   |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | YES          | \$885         | \$300               | \$0                  | \$1185           | 04/23/2013 |

| EXAMINER         | ART UNIT | CLASS-SUBCLASS |
|------------------|----------|----------------|
| NGUYEN, HIEP VAN | 3686     | 705-003000     |

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

- ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.

2. For printing on the patent front page, list

- (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  
 (2) the name of a single firm having as a member a registered attorney or agent and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1. **Henry M. Sinai**  
 2. **IP-Partnership**  
 3.

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assigner is identified below, no assignee data will appear on the patent. If an assigner is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE) OR COUNTRY:

**OS - New Horizons Personal Computing Solutions Ltd.**

**10/3 Efroni Street, P.O. Box 84275**  
**MEVASSERET ZION 90805, Israel**

Please check the appropriate assigner category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. The following fee(s) are submitted:

- ☒ Issue Fee  
☐ Publication Fee (No small entity discount permitted)  
☐ Advance Order - # of Copies: .....

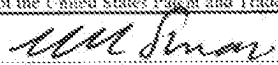
4b. Payment of Fee(s): (Please first recapture any previously paid issue fee shown above)

- ☐ A check is enclosed.  
☐ Payment by credit card. Form PTO-2038 is attached.  
☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number: ..... (enclose an extra copy of this form).

5. Change in Entity Status (from status indicated above)

- ☐ a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2).

NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant, a registered attorney or agent, or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

Authorized Signature:   
 Typed or printed name: **Henry M. Sinai**

Date: **February 18, 2013**  
 Registration No. ....

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FILES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

| Electronic Patent Application Fee Transmittal |          |                                                      |        |                      |
|-----------------------------------------------|----------|------------------------------------------------------|--------|----------------------|
| Application Number:                           |          | 12849971                                             |        |                      |
| Filing Date:                                  |          | 04-Aug-2010                                          |        |                      |
| Title of Invention:                           |          | SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM |        |                      |
| First Named Inventor/Applicant Name:          |          | Gila FISH                                            |        |                      |
| Filer:                                        |          | Henry M. Sinai                                       |        |                      |
| Attorney Docket Number:                       |          | OSH-2799-US                                          |        |                      |
| Filed as Small Entity                         |          |                                                      |        |                      |
| Utility under 35 USC 111(a) Filing Fees       |          |                                                      |        |                      |
| Description                                   | Fee Code | Quantity                                             | Amount | Sub-Total in USD(\$) |
| Basic Filing:                                 |          |                                                      |        |                      |
| Pages:                                        |          |                                                      |        |                      |
| Claims:                                       |          |                                                      |        |                      |
| Miscellaneous-Filing:                         |          |                                                      |        |                      |
| Petition:                                     |          |                                                      |        |                      |
| Patent-Appeals-and-Interference:              |          |                                                      |        |                      |
| Post-Allowance-and-Post-Issuance:             |          |                                                      |        |                      |
| Utility Appl issue fee                        | 2501     | 1                                                    | 885    | 885                  |
| Publ. Fee- early, voluntary, or normal        | 1504     | 1                                                    | 300    | 300                  |

| Description        | Fee Code | Quantity | Amount | Sub-Total in USD(\$) |
|--------------------|----------|----------|--------|----------------------|
| Extension-of-Time: |          |          |        |                      |
| Miscellaneous:     |          |          |        |                      |
| Total in USD (\$)  |          |          |        | 1185                 |

## Electronic Acknowledgement Receipt

|                                             |                                                      |
|---------------------------------------------|------------------------------------------------------|
| <b>EFS ID:</b>                              | 14981663                                             |
| <b>Application Number:</b>                  | 12849971                                             |
| <b>International Application Number:</b>    |                                                      |
| <b>Confirmation Number:</b>                 | 8890                                                 |
| <b>Title of Invention:</b>                  | SECURED PERSONAL DATA HANDLING AND MANAGEMENT SYSTEM |
| <b>First Named Inventor/Applicant Name:</b> | Gila FISH                                            |
| <b>Customer Number:</b>                     | 35650                                                |
| <b>Filer:</b>                               | Henry M. Sinai                                       |
| <b>Filer Authorized By:</b>                 |                                                      |
| <b>Attorney Docket Number:</b>              | OSH-2799-US                                          |
| <b>Receipt Date:</b>                        | 18-FEB-2013                                          |
| <b>Filing Date:</b>                         | 04-AUG-2010                                          |
| <b>Time Stamp:</b>                          | 14:53:22                                             |
| <b>Application Type:</b>                    | Utility under 35 USC 111(a)                          |

### Payment information:

|                                          |             |
|------------------------------------------|-------------|
| Submitted with Payment                   | yes         |
| Payment Type                             | Credit Card |
| Payment was successfully received in RAM | \$ 1185     |
| RAM confirmation Number                  | 11029       |
| Deposit Account                          |             |
| Authorized User                          |             |

### File Listing:

| Document Number | Document Description | File Name | File Size(Bytes)/<br>Message Digest | Multi Part /.zip | Pages (if appl.) |
|-----------------|----------------------|-----------|-------------------------------------|------------------|------------------|
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                             |                            | 2470a94bb8175d50fa52bd73b30da9c809386b4e |    |   |
| Warnings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                            |                                          |    |   |
| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |                            |                                          |    |   |
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| Warnings:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                            |                                          |    |   |
| Information:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |                            |                                          |    |   |
| Total Files Size (in bytes):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |                            | 320636                                   |    |   |
| <p>This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.</p> <p><b><u>New Applications Under 35 U.S.C. 111</u></b><br/>If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.</p> <p><b><u>National Stage of an International Application under 35 U.S.C. 371</u></b><br/>If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.</p> <p><b><u>New International Application Filed with the USPTO as a Receiving Office</u></b><br/>If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.</p> |                             |                            |                                          |    |   |



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[www.uspto.gov](http://www.uspto.gov)

| APPLICATION NO. | ISSUE DATE | PATENT NO. | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|------------|------------|---------------------|------------------|
| 12/849,971      | 03/19/2013 | 8401875    | OSH-2799-US         | 8890             |

35650 7590 02/27/2013  
HENRY M. SINAI  
(IP-PARTNERSHIP)  
P.O. BOX 669  
RAANANA, 43350  
ISRAEL

## ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

### **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)** (application filed on or after May 29, 2000)

The Patent Term Adjustment is 109 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

Gila FISH, Mevasseret Zion, ISRAEL;  
Avner KORMAN, Herzlia, ISRAEL;

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