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UNITED STATES DISTRICT COURT

CENTRAL DISTRICT OF CALIFORNIA

CV10·10045 GHK(PLAx)

ANCORA TECHNOLOGIES, INC.,	Case No. _____
Plaintiff,	
v.	
APPLE, INC.,	**COMPLAINT FOR PATENT INFRINGEMENT**
Defendant.	**DEMAND FOR JURY TRIAL**

Plaintiff, ANCORA TECHNOLOGIES, INC. ("Ancora"), for its Complaint herein, states as follows:

I. JURISDICTION

1.   This is an action for patent infringement arising under the Patent Laws of the United States, Title 35, United States Code.

2.   The subject matter jurisdiction for this Court is founded upon 25 U.S.C. § 1338 (patents) and 28 U.S.C. § 1331 (federal question).

3.   Upon information and belief, defendant, Apple, Inc. ("Apple"), regularly and continuously engages in substantial sales and other business transactions in the Central District of California, and has sold infringing products and/or committed infringing acts in this district. The United States District Court for the Central District of California therefore has *in personam* jurisdiction over the defendant.

II. THE PARTIES

4.   Plaintiff, Ancora Technologies, Inc. is a corporation organized and existing under the laws of the State of Delaware and having a place of business at 14155 Magnolia, Sherman Oaks, California 91423.

5.   Upon information and belief, defendant Apple, Inc. is a corporation organized and existing under the laws of the State of California and having a principal place of business at 1 Infinite Loop, Cupertino, California 95014.

III. BACKGROUND

6.   On June 25, 2002, U.S. Patent No. 6,411,941 ("the '941 patent") entitled "Method Of Restricting Software Operation Within A License Limitation" was duly and legally issued. (*See* **Exhibit A**, U.S. Patent No.

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6,411,941.)   A reexamination certificate also issued to the '941 Patent on June 1, 2010 where the patentability of all claims was confirmed by the United States Patent Office. (**Exhibit B**, Ex Parte Reexamination Certificated Issued Under 35 U.S.C. § 307.)

7.   Ancora is the owner of all right, title and interest in the '941 patent.

IV.   COUNT I – PATENT INFRINGEMENT

8.   Ancora realleges paragraphs 1-7 as set forth fully herein.

9.   Apple has made, used, offered for sale, imported and sold in the United States, and continues to make, use, offer for sale, import and sell in the United States products and/or processes which infringe the '941 patent, induce others to infringe, and/or contributorily infringe the '941 patent. Apple restricts software operation through use of certain of its devices that include an operating system, including but not limited to, the iPhone, iPad and iPod Touch products that include iOS.

10.   Ancora has suffered damages as a result of the infringing activities of Apple, and will continue to suffer such damage as long as those infringing activities continue.

11.   Apple had knowledge of the '941 patent at least as early as December 11, 2002 and has not fulfilled its duty of care. Thus, Apple's infringement is willful, wanton, and deliberate.

12.   Ancora has no adequate remedy at law. Unless enjoined by this Court, Apple will continue such acts of infringement to Ancora's substantial and irreparable damage.

V. DEMAND FOR RELIEF

Accordingly, Ancora respectfully demands that this Court enter judgment:

A. Preliminarily and permanently enjoining and restraining Apple, its officers, directors, employees, agents, servants, successors and assigns, and any and all persons acting in privity or in concert with Apple, from further infringement of the '941 patent;

B. Award Ancora its damages, together with prejudgment interest and costs, and increasing those damages to three times the amount found or assessed as provided by 35 U.S.C. § 284;

C. Declaring this an exceptional case within the meaning of 35 U.S.C. § 285, and awarding Ancora its reasonable attorney's fees and costs and disbursements in this action; and

D. Granting to Ancora such other and further relief as this Court deems reasonable.

VI. DEMAND FOR JURY TRIAL

Ancora respectfully demands a trial by jury of any and all issues triable of right by a jury in the above-captioned action.

Dated: December 29, 2010

Respectfully submitted,

By: _____
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EXHIBIT A

US006411941B1

(12) **United States Patent**
Mullor et al.

(10) Patent No.: **US 6,411,941 B1**
(45) **Date of Patent:** **Jun. 25, 2002**

(54) **METHOD OF RESTRICTING SOFTWARE OPERATION WITHIN A LICENSE LIMITATION**

(75) Inventors: **Miki Mullor; Julian Valiko**, both of Ramat Hasharon (IL)

(73) Assignee: **Beeble, Inc.**, Newport Beach, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/164,777**

(22) Filed: **Oct. 1, 1998**

(30) **Foreign Application Priority Data**

May 21, 1998 (IL) 124571

(51) **Int. Cl.^{7}** G06F 17/60
(52) **U.S. Cl.** 705/59; 705/50; 705/51; 705/53; 705/57
(58) **Field of Search** 705/51, 54, 56, 705/57, 58, 59, 1, 50, 52, 53; 713/187, 189, 200

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(57) **ABSTRACT**

A method of restricting software operation within a license limitation that is applicable for a computer having a first non-volatile memory area, a second non-volatile memory area, and a volatile memory area. The method includes the steps of selecting a program residing in the volatile memory, setting up a verification structure in the non-volatile memories, verifying the program using the structure, and acting on the program according to the verification.
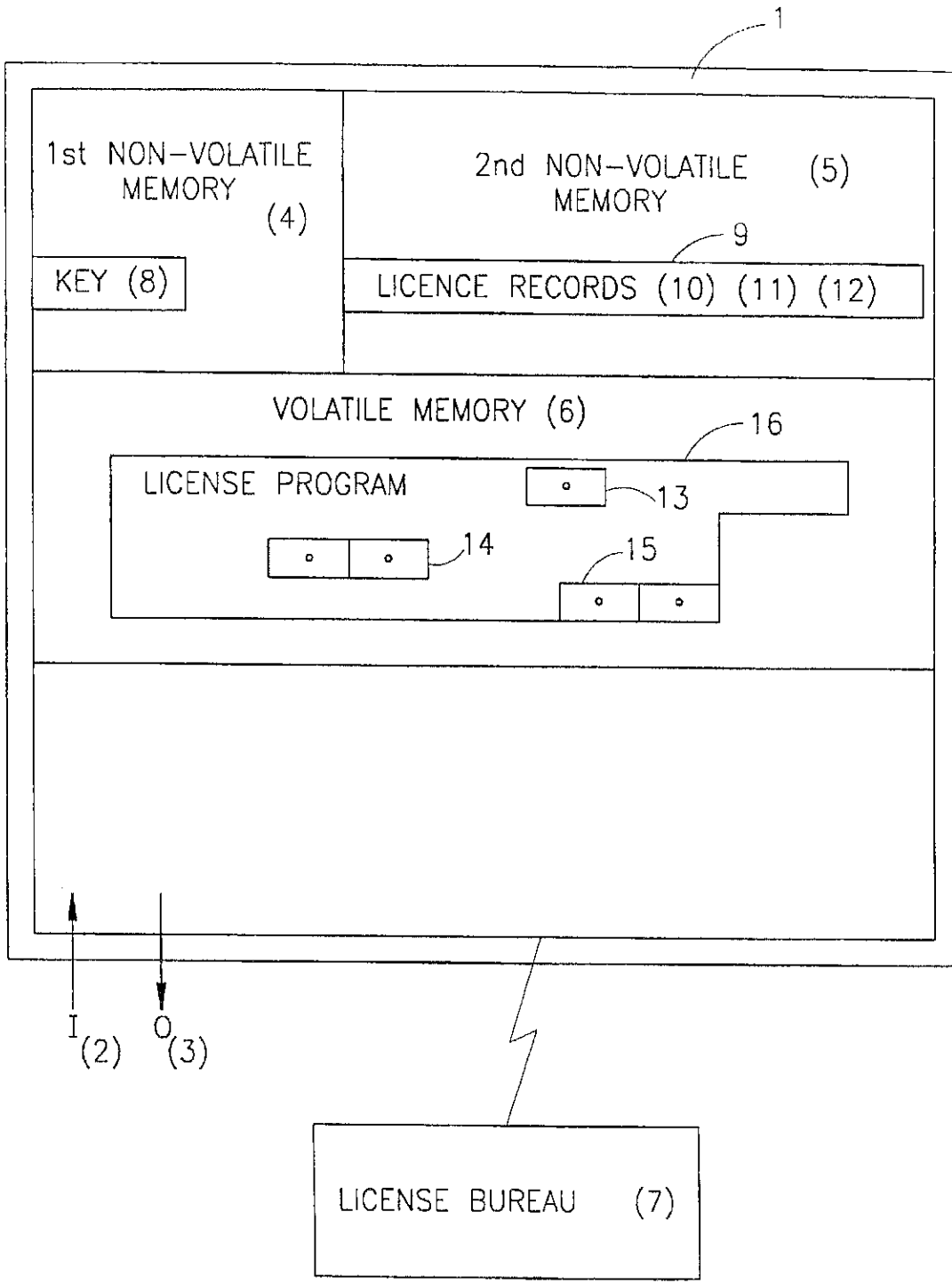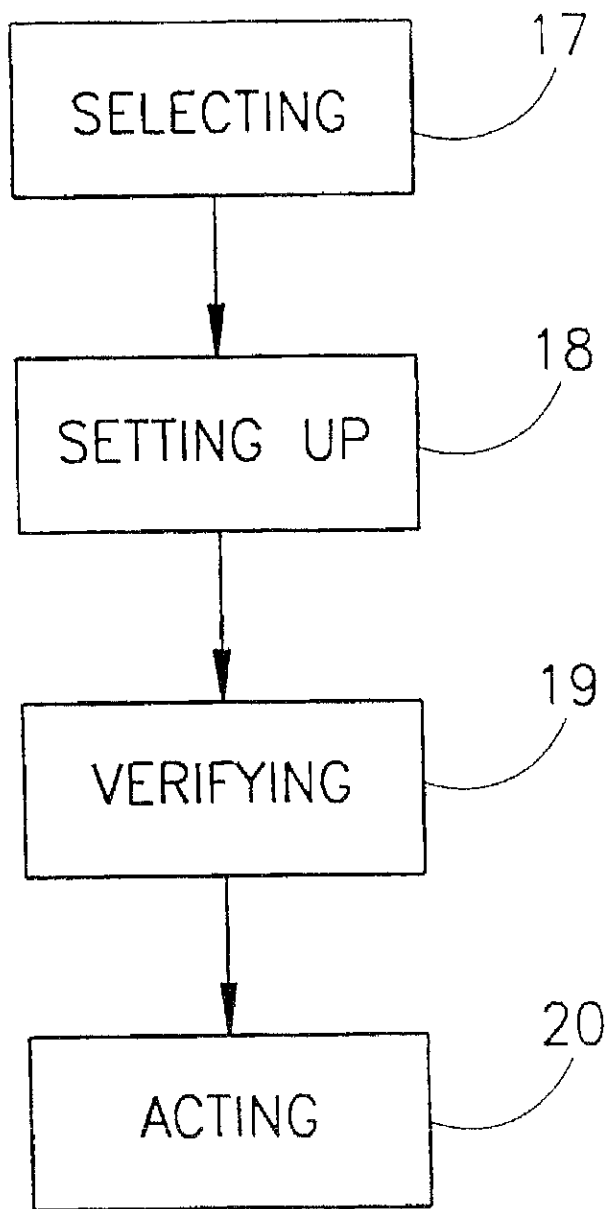
19 Claims, 2 Drawing Sheets
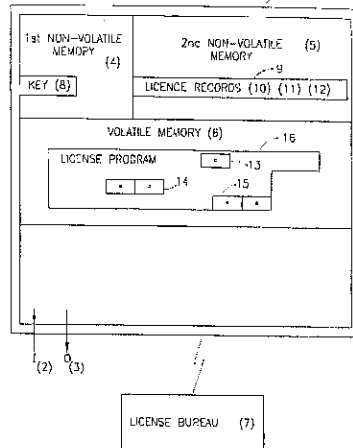
FIG.1

FIG.2

US 6,411,941 B1

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METHOD OF RESTRICTING SOFTWARE OPERATION WITHIN A LICENSE LIMITATION

FIELD OF THE INVENTION

This invention relates to a method and system of identifying and restricting an unauthorized software program's operation.

BACKGROUND OF THE INVENTION

Numerous methods have been devised for the identifying and restricting of an unauthorized software program's operation. These methods have been primarily motivated by the grand proliferation of illegally copied software, which is engulfing the marketplace. This illegal copying represents billions of dollars in lost profits to commercial software developers.

Software based products have been developed to validate authorized software usage by writing a license signature onto the computer's volatile memory (e.g. hard disk). These products may be appropriate for restricting honest software users, but they are very vulnerable to attack at the hands of skilled system's programmers (e.g. "hackers"). These license signatures are also subject to the physical instabilities of their volatile memory media.

Hardware based products have also been developed to validate authorized software usage by accessing a dongle that is coupled e.g. to the parallel port of the P.C. These units are expensive, inconvenient, and not particularly suitable for software that may be sold by downloading (e.g. over the internet).

There is accordingly a need in the art to provide for a system and method that substantially reduce or overcome the drawbacks of hitherto known solutions.

SUMMARY OF THE INVENTION

The present invention relates to a method of restricting software operation within a license limitation. This method strongly relies on the use of a key and of a record, which have been written into the non-volatile memory of a computer.

For a better understanding of the underlying concept of the invention, there follows a specific non-limiting example. Thus, consider a conventional computer having a conventional BIOS module in which a key was embedded at the ROM section thereof, during manufacture. The key constitutes, effectively, a unique identification code for the host computer. It is important to note that the key is stored in a non-volatile portion of the BIOS, i.e. it cannot be removed or modified.

Further, according to the invention, each application program that is to be licensed to run on the specified computer, is associated with a· license record; that consists of author name, program name and number of licensed users (for network). The license record may be held in either encrypted or explicit form.

Now, there commences an initial license establishment procedure, where a verification structure is set in the BIOS so as to indicate that the specified program is licensed to run on the specified computer. This is implemented by encrypting the license record (or portion thereof) using said key (or portion thereof) exclusively or in conjunction with other identification information) as an encryption key. The resulting encrypted license record is stored in another (second) non-volatile section of the BIOS, e.g. E²PROM (or the

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ROM). It should be noted that unlike the first non-volatile section, the data in the second non-volatile memory may optionally be erased or modified (using E²PROM manipulation commands), so as to enable to add, modify or remove licenses. The actual format of the license may include a string of terms that correspond to a license registration entry (e.g. lookup table entry or entries) at a license registration bureau (which will be further described as part of the preferred embodiment of the present invention).

Having placed the encrypted license record in the second non-volatile memory (e.g. the E²PROM), the process of verifying a license may be o commenced. Thus, when a program is loaded into the memory of the computer, a so called license verifier application, that is a priori running in the computer, accesses the program under question, retrieves therefrom the license record, encrypts the record utilizing the specified unique key (as retrieved from the ROM section of the BIOS) and compares the so encrypted record to the encrypted records that reside in the E²PROM. In the case of match, the program is verified to run on the computer. If on the other hand the sought encrypted data record is not found in the E²PROM database, this means that the program under question is not properly licensed and appropriate application define action is invoked (e.g. informing to the user on the unlicensed status, halting the operation of the program under question etc.)

Those versed in the art will readily appreciate that any attempt to run a program at an unlicensed site will be immediately detected. Consider, for example, that a given application, say Lotus 123, is verified to run on a given computer having a first identification code (k1) stored in the ROM portion of the BIOS thereof. This obviously requires that the license record (LR) of the application after having been encrypted using k1 giving rise to (LR)$_{k1}$ is stored in the E²PROM of the first computer.

Suppose now that a hacker attempts to run the specified application in a second computer having a second identification code (k2) stored in the ROM portion of the BIOS thereof. All or a portion the database contents (including of course (LR)$_{k1}$) that reside in the E²PROM portion in the first computer may be copied in a known per se means to the second computer. It is important to note that the hacker is unable to modify the key in the ROM of the second computer to K1, since, as recalled, the contents of the ROM is established during manufacture and is practically invariable.

Now, when the application under question is executed in the second computer, the license verifier retrieves said LR from the application and, as explained above, encrypts it using the key as retrieved from the ROM of the second computer, i.e k2 giving rise to encrypted license record (LR)$_{k2}$. Obviously, the value (LR)$_{k2}$ does not reside in the E²PROM database section of the second computer (since it was not legitimately licensed) and therefore the specified application is invalidated. It goes without saying that the data copied from the first (legitimate) computer is rendered useless, since comparing (LR)$_{k2}$ with the copied value (LR)$_{k1}$ results, of course, in mismatch.

The example above is given for clarity of explanation only and is by no means binding.

In its broadest aspect, the invention provides for a method of restricting software operation within a license limitation including; for a computer having a first non-volatile memory area, a second non-volatile memory area, and a volatile memory area; the steps of: selecting a program residing in the volatile memory, setting up a verification structure in the

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non-volatile memories, verifying the program using the structure, and acting on the program according to the verification.

An important advantage in utilizing non-volatile memory such as that residing in the BIOS is that the required level of system programming expertise that is necessary to intercept or modify commands, interacting with the BIOS, is substantially higher than those needed for tampering with data residing in volatile memory such as hard disk. Furthermore, there is a much higher cost to the programmer, if his tampering is unsuccessful, i.e. if data residing in the BIOS (which is necessary for the computer's operability) is inadvertently changed by the hacker. This is too high of a risk for the ordinary software hacker to pay. Note that various recognized means for hindering the professional-like hacker may also be utilized (e.g. anti-debuggers, etc.) in conjunction with the present invention.

In the context of the present invention, a "computer" relates to a digital data processor. These processors are found in personal computers, or on one or more processing cards in multi-processor machines. Today, a processor normally includes a first non-volatile memory, a second non-volatile memory, and data linkage access to a volatile memory. There are also processors having only one non-volatile memory or having more than two non-volatile memories; all of which should be considered logically as relating to having a first and a second non-volatile memory areas. There are also computational environments where the volatile memory is distributed into numerous physical components, using a bus, LAN, etc.; all of which should logically be considered as being a volatile memory area.

According to the preferred embodiment of the present invention, there is further provided a license authentication bureau which can participate in either or both of:

(i) establishing the license record in the second non-volatile memory; and

(ii) verifying if the key and license record in the non-volatile memory(s) is compatible with the license record information as extracted from the application under question.

The bureau is a telecommunications accessible processor where functions such as formatting, encrypting, and verifying may be performed. Performing these or other functions at the bureau helps to limit the understanding of potential software hackers; since they can not observe how these functions are constructed. Additional security may also be achieved by forcing users of the bureau to register, collecting costs for connection to the bureau, logging transactions at the bureau, etc.

According to one example of using the bureau, setting up a verification structure further includes the steps of: establishing, between the computer and the bureau, a two-way data-communications linkage; transferring, from the computer to the bureau, a request-for-license including an identification of the .computer and the license-record's contents from the selected program; forming an encrypted license-record at the bureau by encrypting parts of the request-for-license using part of the identification as the encryption key; and transferring, from the bureau to the computer, the encrypted license-record.

According to another example of using the bureau, verifying the program further includes the steps of: establishing, between the computer and the bureau, a two-way data-communications linkage; transferring, from the computer to the bureau, a request-for-license-verification including an identification of the computer, the encrypted license-record

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for the selected program from the second non-volatile memory, and the licensed-software-program's license-record contents; enabling the comparing at the bureau; and transferring, from the bureau to the computer, the result of the comparing.

The actual key that serves for identifying the computer may be composed of the pseudo-unique key exclusively, or, if desired, in combination with information, e.g. information related to the registration of the user such as e.g. place, telephone number, user name, license number, etc. In the context of the present invention, a "pseudo-unique" key may relate to a bit string which uniquely identifies each first non-volatile memory. Alternately the "pseudo-unique" key may relate to a random bit string (or to an assigned bit string) of sufficient length such that: there is an acceptably low probability of a successful unauthorized transfer of licensed software between two computers, where the first volatile memories of these two computers have the same key.

It should be noted that the license bureau might maintain a registry of keys and of licensed programs that have been registered at the bureau in association with these keys. This registry may be used to help facilitate the formalization of procedures for the transfer of ownership of licensed software from use on one computer to use on another computer.

Constructing the key in the manner specified may hinder the hacker in cracking the proposed encryption scheme of the invention, in particular when the establishment of the license record or the verification thereof is performed in the bureau. Those versed in the art will readily appreciate that the invention is by no means bound by the data, the algorithms, or the manner of operation of the bureau. It should be noted that the tasks of establishing and/or verifying a license record may be shared between the bureau and the computer, done exclusively at the computer, or done exclusively at the bureau. The pseudo-unique key length needs to be long enough to hinder encryption attack schemes. The establishing of the key may be done at any time from the non-volatile memory's manufacture until an attempted use of an established license-record in the non-volatile memory. The key is used for encryption or decryption operations associated with license-records. In principle, the manufacturer of the licensed-software-program may specify the license-record format and therefore different formats may, if desired, be used for respective applications.

According to the preferred embodiment of the present invention, the pseudo-unique key is a unique-identification bit string that is written onto the first non-volatile memory by the manufacturer of the is memory media.

According to one, non-limiting, preferred embodiment of the present invention, the first non-volatile memory area is a ROM section of a BIOS; the second non-volatile memory area is a E^{2}PROM section of a BIOS; and the volatile memory is a RAM e.g. hard disk and/or internal memory of the computer.

The present invention also relates to a non-volatile memory media used as a BIOS of a computer, for restricting software operation within a license limitation, wherein a pseudo-unique key is established.

According to the preferred embodiment of the non-volatile memory media of the present invention, the pseudo-unique key is established in a ROM section of the BIOS.

BRIEF DESCRIPTION OF THE DRAWINGS

In order to understand the invention and to see how it may be carried out in practice, a preferred embodiment will now be described, by way of non-limiting example only, with reference to the accompanying drawings, in which:

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FIG. 1 is a schematic diagram of a computer and a license bureau; and

FIG. 2 is a generalized flow chart of the sequence of operations performed according to one embodiment of the invention.

DETAILED DESCRIPTION OF A PREFERRED EMBODIMENT

A schematic diagram of a computer and a license bureau is shown in FIG. 1. Thus, a computer processor (1) is associated with input operations (2) and with output operations (3). This computer (processor) internally contains a first non-volatile memory area (4) (e.g. the ROM section of the BIOS), a second non-volatile memory area (5) (e.g. the E^{2}PROM section of the BIOS), and a volatile memory area (6) (e.g. the internal RAM memory of the computer).

The computer processor is in temporary telecommunications linkage with a license bureau (7).

The first non-volatile memory includes a pseudo-random identification key (8), which exclusively or in combination with other information (e.g. user name), is sufficient to uniquely differentiate this first non-volatile memory from all other first non-volatile memories. As specified before, said key constitutes unique identification of the computer.

The second non-volatile memory includes a license-record-area (9) e.g. which contains at least one encrypted license-record (e.g. three records 10–12). The volatile memory accommodates a license program (16) having license record fields (13–15) appended thereto. By way of example said fields stand for Application names (e.g. Lotus 123), Vendor name (Lotus inc.), and number of licensed copies (1 for stand alone usage, >1 for number of licensed users for a network application).

Those versed in the art will readily appreciate that the license record is not necessarily bound to continuous fields. In fact, the various license content components of the data record may be embedded in various locations in the application. Any component may, if desired, be encrypted.

Each one of the encrypted license records (10–12) is obtained by encrypting the corresponding license record as extracted from program 16, utilizing for encryption the identification key (8).

In a typical, yet not exclusive, sequence of operation, a transaction/request is sent, by the computer to the bureau. This transaction includes the key (8), the encrypted license-records (10–12), contents from the license program used in forming a license record (e.g. fields 13–15), and other items of information as desired.

The bureau forms the proposed license-record from the contents, encrypts (utilizing predetermined encryption algorithm) the so formed license-record using the key (8), and compares the so formed encrypted license-record with the license-record (10–12). The bureau generates an overlay according to the result of the comparison indicating successful comparison, non-critical failure comparison and the critical failure comparison.

The bureau returns the overlay which will direct the computer in subsequent operation. Thus, a success overlay will allow the license program to operate. A non-critical failure overlay will ask for additional user interactions. A critical failure overlay will cause permanent disruption to the computer's BIOS operations. Thus, software operation of the program is methodologically according to a license limitation restriction.

Those versed in the art will readily appreciate that the implementation as described with reference to FIG. 1 is by

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no means binding. Thus, by way of non-limiting example, the bureau, instead of being external entity may form part of the computer.

Attention is now directed to FIG. 2, showing a generalized flow chart of the sequence of operations performed according to one embodiment of the invention.

Thus, selecting (17) a program includes the step of: establishing a licensed-software-program in the volatile memory of the computer wherein the licensed-software-program includes contents used to form a license-record. These contents, be they centralize or decentralized, may include terms, identifications, specifications, or limitations related to the manufacturer of a software product, the distributor of a software product, the purchaser of a software product, a licensor, a licensee, items of computer hardware or components thereof, or to other terms and conditions related to the aforesaid.

Setting up (18) the verification structure includes the steps of: establishing or certifying the existence of a pseudo-unique key in the first non-volatile memory area; and establishing at least one license-record location in the first or the second nonvolatile memory area.

Establishing a license-record includes the steps of: forming a license-record by encrypting of the contents used to form a license-record with other predetermined data contents, using the key; and establishing the encrypted license-record in one of the at least one established license-record locations (e.g. 10–12 in FIG. 1).

Verifying (19) the program includes the steps of: encrypting the licensed-software-program's license-record contents from the volatile memory area or decrypting the license-record in the first or the second non-volatile memory area, using the key; and comparing the encrypted licensed-software-program's license-record contents with the encrypted license-record in the first or the second non-volatile memory area, or comparing the licensed-software-program's license-record contents with the decrypted license-record in the first or the second non-volatile memory area.

Acting (20) on the program includes the step of: restricting the program's operation with predetermined limitations if the comparing yields non-unity or insufficiency. In this context "non-unity" relates to being unequal with respect to a specific equation (e.g. A=B+1); and "insufficiency" relates to being outside of a relational bound (e.g. A>B+1). "Restricting the program's operation with predetermined limitations" may include actions such as erasing the software in volatile memory, warning the license applicant/user, placing a fine on the applicant/user through the billing service charges collected at the license bureau (if applicable), or scrambling sections of the BIOS of the computer (or of functions interacting therewith).

The present invention has been described with a certain degree of particularity but it should be understood that various modifications and alterations may be made without departing from the scope or spirit of the invention as defined by the following claims.

What is claimed is:

1. A method of restricting software operation within a license for use with a computer including an erasable, non-volatile memory area of a BIOS of the computer, and a volatile memory area; the method comprising the steps of:

selecting a program residing in the volatile memory,

using an agent to set up a verification structure in the erasable, non-volatile memory of the BIOS, the verification structure accommodating data that includes at least one license record,

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verifying the program using at least the verification structure from the erasable non-volatile memory of the BIOS, and

acting on the program according to the verification.

2. A method according to claim 1, further comprising the steps of:

establishing a license authentication bureau.

3. A method according to claim 2, wherein setting up a verification structure further comprising the steps of: establishing, between the computer and the bureau, a two-way data-communications linkage; transferring, from the computer to the bureau, a request-for-license including an identification of the computer and the license-record's contents from the selected program; forming an encrypted license-record at the bureau by encrypting parts of the request-for-license using part of the identification as an encryption key; transferring, from the bureau to the computer, the encrypted license-record; and storing the encrypted license record in the erasable non-volatile memory area of the BIOS.

4. A method according to claim 2, wherein verifying the program further comprises the steps of: establishing, between the computer and the bureau, a two-way data-communications linkage; transferring, from the computer to the bureau, a request-for-license verification including an identification of the computer, an encrypted license-record for the selected program from the erasable, non-volatile memory area of the BIOS, and the program's license-record; enabling the comparing at the bureau; and transferring, from the bureau to the computer, the result of the comparing.

5. A method according to claim 3 wherein the identification of the computer includes the unique key.

6. A method according to claim 1 wherein selecting a program includes the steps of: establishing a licensed-software-program in the volatile memory of the computer wherein said licensed-software-program includes contents used to form the license-record.

7. A method according to claim 6 wherein using an agent to set up the verification structure includes the steps of: establishing or certifying the existence of a pseudo-unique key in a first non-volatile memory area of the computer; and establishing at least one license-record location in the first nonvolatile memory area or in the erasable, non-volatile memory area of the BIOS.

8. A method according to claim 6 wherein establishing a license-record includes the steps of: forming a license-record by encrypting of the contents used to form a license-record with other predetermined data contents, using the key; and establishing the encrypted license-record in one of the at least one established license-record locations.

9. A method according to claim 7 wherein verifying the program includes the steps of: encrypting the licensed-software-program's license-record contents from the volatile memory area or decrypting the license-record in the erasable, non-volatile memory area of the BIOS, using the pseudo-unique key; and comparing the encrypted licenses-software-program's license-record contents with the encrypted license-record in the erasable, non-volatile memory area of the BIOS, or comparing the license-software-program's license-record contents with the decrypted license-record in erasable non-volatile memory area of the BIOS.

10. A method according to claim 9 wherein acting on the program includes the step: restricting the program's operation with predetermined limitations if the comparing yields non-unity or insufficiency.

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11. A method according to claim 1 wherein the volatile memory is a RAM.

12. The method of claim 1, wherein a pseudo-unique key is stored in the non-volatile memory of the BIOS.

13. The method of claim 1, wherein a unique key is stored in a first non-volatile memory area of the computer.

14. The method according claim 13, wherein the step of using the agent to set up the verification record, including the license record, includes encrypting a license record data in the program using at least the unique key.

15. The method according to claim 14, wherein the verification comprises:

extracting the license record from the software program;

encrypting the license record using the unique key stored in the first non-volatile memory area of the computer to form second encrypted license information; and

comparing the encrypted license information stored in the erasable, non-volatile memory area of the BIOS of the computer with the second encrypted license information.

16. The method according to claim 13, wherein the step of verifying the program includes a decrypting the license record data accommodated in the erasable second non-volatile memory area of the BIOS using at least the unique key.

17. The method according to claim 13, wherein the step of verifying the program includes encrypting the license record that is accommodated in the program using at least the unique key.

18. A method for accessing an application software program using a pseudo-unique key stored in a first non-erasable non-volatile memory area of a computer, the first non-volatile memory area being unable to be programmatically changed, the method, comprising:

loading the application software program residing in a non-volatile memory area of the computer;

using an agent to perform the following steps:

extracting license information from software program;

encrypting license information using the pseudo-unique key stored in the first non-volatile memory area;

storing the encrypting license information in a second erasable, writable, non-volatile memory area of the BIOS of the computer;

subsequently verifying the application software program based on the encrypted license information stored in the second erasable, writable, non-volatile memory area of the BIOS; and

acting on the application software program based on the verification.

19. The method of claim 18, wherein the verification comprises:

extracting the license information from the software program;

encrypting the license information using the pseudo-unique key stored in the first non-volatile memory area of the computer to form second encrypted license information; and

comparing the encrypted license information stored in the second erasable, writable, non-volatile memory area of the BIOS of the computer with the second encrypted license information.

*   *   *   *   *

EXHIBIT B

US006411941C1

(12) **EX PARTE REEXAMINATION CERTIFICATE** (7545th)

United States Patent
Mullor et al.

(10) **Number:** **US 6,411,941 C1**

(45) **Certificate Issued:** **Jun. 1, 2010**

(54) **METHOD OF RESTRICTING SOFTWARE OPERATION WITHIN A LICENSE LIMITATION**

(75) Inventors: **Miki Mullor**, Ramat Hasharon (IL); **Julian Valiko**, Ramat Hasharon (IL)

(73) Assignee: **Ancora Technologies Inc.**, Irvine, CA (US)

Reexamination Request:
No. 90/010,560, May 29, 2009

Reexamination Certificate for:
Patent No.:	**6,411,941**
Issued:	**Jun. 25, 2002**
Appl. No.:	**09/164,777**
Filed:	**Oct. 1, 1998**

(30) **Foreign Application Priority Data**

May 21, 1998   (IL) 124571

(51) **Int. Cl.**
G06F 21/22   (2006.01)

(52) **U.S. Cl.** **705/59**; 705/50; 705/51; 705/53; 705/57

(58) Field of Classification Search 705/59
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,734,819 A * 3/1998 Lewis 726/29
6,153,835 A * 11/2000 Schwartz et al. 177/25.13

OTHER PUBLICATIONS

Microsoft Computer Dictionary, 5th Edition, 2002, p. 60.*

* cited by examiner

Primary Examiner—Matthew Heneghan

(57) **ABSTRACT**

A method of restricting software operation within a license limitation that is applicable for a computer having a first non-volatile memory area, a second non-volatile memory area, and a volatile memory area. The method includes the steps of selecting a program residing in the volatile memory, setting up a verification structure in the non-volatile memories, verifying the program using the structure, and acting on the program according to the verification.
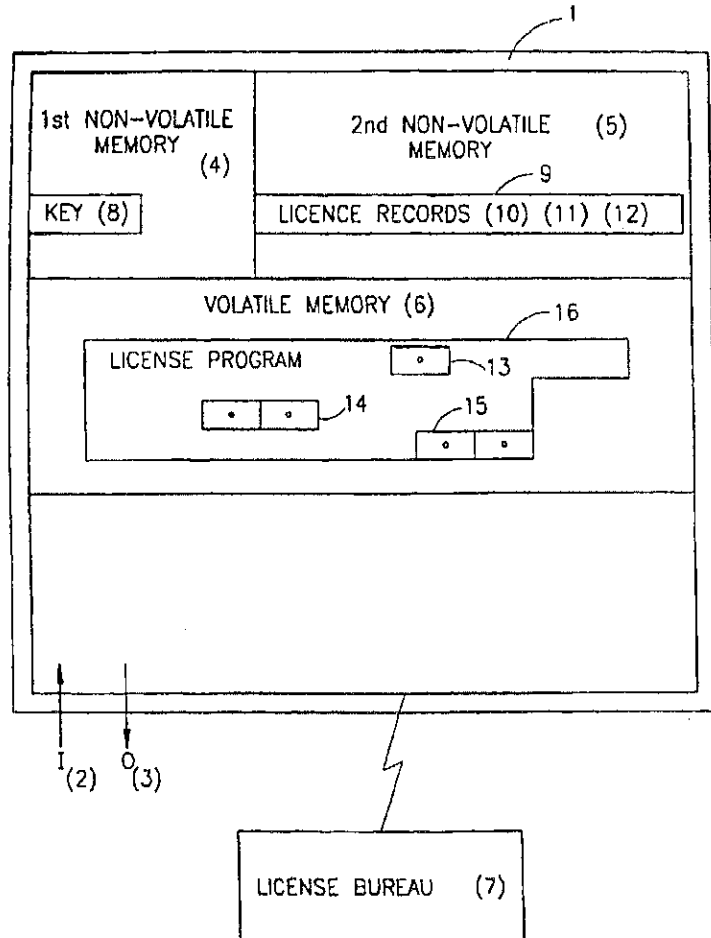
US 6,411,941 C1

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EX PARTE
REEXAMINATION CERTIFICATE
ISSUED UNDER 35 U.S.C. 307

NO AMENDMENTS HAVE BEEN MADE TO
THE PATENT

2

AS A RESULT OF REEXAMINATION, IT HAS BEEN
DETERMINED THAT:

The patentability of claims 1-19 is confirmed.

*   *   *   *   *

UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA

NOTICE OF ASSIGNMENT TO UNITED STATES MAGISTRATE JUDGE FOR DISCOVERY

This case has been assigned to District Judge George King and the assigned discovery Magistrate Judge is Paul Abrams.

The case number on all documents filed with the Court should read as follows:

CV10- 10045 GHK (PLAx)

Pursuant to General Order 05-07 of the United States District Court for the Central District of California, the Magistrate Judge has been designated to hear discovery related motions.

All discovery related motions should be noticed on the calendar of the Magistrate Judge

===

NOTICE TO COUNSEL

A copy of this notice must be served with the summons and complaint on all defendants (if a removal action is filed, a copy of this notice must be served on all plaintiffs).

Subsequent documents must be filed at the following location:

[X] Western Division 312 N. Spring St., Rm. G-8 Los Angeles, CA 90012	**[ ] Southern Division** 411 West Fourth St., Rm. 1-053 Santa Ana, CA 92701-4516	**[ ] Eastern Division** 3470 Twelfth St., Rm. 134 Riverside, CA 92501

Failure to file at the proper location will result in your documents being returned to you.

CV-18 (03/06)   NOTICE OF ASSIGNMENT TO UNITED STATES MAGISTRATE JUDGE FOR DISCOVERY

UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA

ANCORA TECHNOLOGIES, INC.,	CASE NUMBER
PLAINTIFF(S) v. APPLE, INC., DEFENDANT(S).	**CV10·10045** GHK (PLAx) **SUMMONS**

TO: DEFENDANT(S): APPLE, INC.

A lawsuit has been filed against you.

Within ___21___ days after service of this summons on you (not counting the day you received it), you must serve on the plaintiff an answer to the attached ☑ complaint ☐ _____ amended complaint ☐ counterclaim ☐ cross-claim or a motion under Rule 12 of the Federal Rules of Civil Procedure. The answer or motion must be served on the plaintiff's attorney, _Mark B. Mizrahi_____, whose address is _Brooks Kushman P.C., 6701 Center Drive West, Suite 610, Los Angeles, CA 90045_____. If you fail to do so, judgment by default will be entered against you for the relief demanded in the complaint. You also must file your answer or motion with the court.

Clerk, U.S. District Court

JULIE PRADO

Dated: _____DEC 2 9 2010_____   By: _____
                                                 Deputy Clerk

                                                 (Seal of the Court)

[Use 60 days if the defendant is the United States or a United States agency, or is an officer or employee of the United States. Allowed 60 days by Rule 12(a)(3)].

UNITED STATES DISTRICT COURT, CENTRAL DISTRICT OF CALIFORNIA

CIVIL COVER SHEET

I (a) PLAINTIFFS (Check box if you are representing yourself ☐) ANCORA TECHNOLOGIES, INC.	**DEFENDANTS** APPLE, INC.
(b) Attorneys (Firm Name, Address and Telephone Number. If you are representing yourself, provide same.) Mark B. Mizrahi (SBN 179384) BROOKS KUSHMAN P.C. 6701 Center Drive West, Suite 610, Los Angeles, CA 90045 Tel: (310) 348-8200; mmizrahi@brookskushman.com	Attorneys (If Known)

II. BASIS OF JURISDICTION (Place an X in one box only.)

☐ 1 U.S. Government Plaintiff ☑ 3 Federal Question (U.S. Government Not a Party)

☐ 2 U.S. Government Defendant ☐ 4 Diversity (Indicate Citizenship of Parties in Item III)

III. CITIZENSHIP OF PRINCIPAL PARTIES - For Diversity Cases Only
(Place an X in one box for plaintiff and one for defendant.)

	PTF	DEF		PTF	DEF
Citizen of This State	☐ 1	☐ 1	Incorporated or Principal Place of Business in this State	☐ 4	☐ 4
Citizen of Another State	☐ 2	☐ 2	Incorporated and Principal Place of Business in Another State	☐ 5	☐ 5
Citizen or Subject of a Foreign Country	☐ 3	☐ 3	Foreign Nation	☐ 6	☐ 6

IV. ORIGIN (Place an X in one box only.)

☑ 1 Original Proceeding ☐ 2 Removed from State Court ☐ 3 Remanded from Appellate Court ☐ 4 Reinstated or Reopened ☐ 5 Transferred from another district (specify): ☐ 6 Multi-District Litigation ☐ 7 Appeal to District Judge from Magistrate Judge

V. REQUESTED IN COMPLAINT: JURY DEMAND: ☑ Yes ☐ No (Check 'Yes' only if demanded in complaint.)

CLASS ACTION under F.R.C.P. 23: ☐ Yes ☑ No ☐ **MONEY DEMANDED IN COMPLAINT: $**_____

VI. CAUSE OF ACTION (Cite the U.S. Civil Statute under which you are filing and write a brief statement of cause. Do not cite jurisdictional statutes unless diversity.)
35 U.S.C. 101 et seq.

VII. NATURE OF SUIT (Place an X in one box only.)

OTHER STATUTES	CONTRACT	TORTS PERSONAL INJURY	TORTS PERSONAL PROPERTY	PRISONER PETITIONS	LABOR
☐ 400 State Reapportionment	☐ 110 Insurance	☐ 310 Airplane	☐ 370 Other Fraud	☐ 510 Motions to Vacate Sentence Habeas Corpus	☐ 710 Fair Labor Standards Act
☐ 410 Antitrust	☐ 120 Marine	☐ 315 Airplane Product Liability	☐ 371 Truth in Lending		☐ 720 Labor/Mgmt. Relations
☐ 430 Banks and Banking	☐ 130 Miller Act	☐ 320 Assault, Libel & Slander	☐ 380 Other Personal Property Damage	☐ 530 General	☐ 730 Labor/Mgmt. Reporting & Disclosure Act
☐ 450 Commerce/ICC Rates/etc.	☐ 140 Negotiable Instrument	☐ 330 Fed. Employers' Liability	☐ 385 Property Damage Product Liability	☐ 535 Death Penalty	
☐ 460 Deportation	☐ 150 Recovery of Overpayment & Enforcement of Judgment	☐ 340 Marine	BANKRUPTCY	☐ 540 Mandamus/ Other	☐ 740 Railway Labor Act
☐ 470 Racketeer Influenced and Corrupt Organizations		☐ 345 Marine Product Liability	☐ 422 Appeal 28 USC 158	☐ 550 Civil Rights	☐ 790 Other Labor Litigation
☐ 480 Consumer Credit	☐ 151 Medicare Act	☐ 350 Motor Vehicle	☐ 423 Withdrawal 28 USC 157	☐ 555 Prison Condition	☐ 791 Empl. Ret. Inc. Security Act
☐ 490 Cable/Sat TV	☐ 152 Recovery of Defaulted Student Loan (Excl. Veterans)	☐ 355 Motor Vehicle Product Liability	CIVIL RIGHTS	FORFEITURE / PENALTY	PROPERTY RIGHTS
☐ 810 Selective Service		☐ 360 Other Personal Injury	☐ 441 Voting	☐ 610 Agriculture	☐ 820 Copyrights
☐ 850 Securities/Commodities/ Exchange	☐ 153 Recovery of Overpayment of Veteran's Benefits	☐ 362 Personal Injury-Med Malpractice	☐ 442 Employment	☐ 620 Other Food & Drug	☑ 830 Patent
☐ 875 Customer Challenge 12 USC 3410	☐ 160 Stockholders' Suits	☐ 365 Personal Injury-Product Liability	☐ 443 Housing/Acco-mmodations	☐ 625 Drug Related Seizure of Property 21 USC 881	☐ 840 Trademark
☐ 890 Other Statutory Actions	☐ 190 Other Contract	☐ 368 Asbestos Personal Injury Product Liability	☐ 444 Welfare		SOCIAL SECURITY
☐ 891 Agricultural Act	☐ 195 Contract Product Liability		☐ 445 American with Disabilities - Employment	☐ 630 Liquor Laws	☐ 861 HIA (1395ff)
☐ 892 Economic Stabilization Act	☐ 196 Franchise	REAL PROPERTY	☐ 446 American with Disabilities - Other	☐ 640 R.R. & Truck	☐ 862 Black Lung (923)
☐ 893 Environmental Matters	REAL PROPERTY	IMMIGRATION		☐ 650 Airline Regs	☐ 863 DIWC/DIWW (405(g))
☐ 894 Energy Allocation Act	☐ 210 Land Condemnation	☐ 462 Naturalization Application	☐ 440 Other Civil Rights	☐ 660 Occupational Safety /Health	☐ 864 SSID Title XVI
☐ 895 Freedom of Info. Act	☐ 220 Foreclosure	☐ 463 Habeas Corpus-Alien Detainee		☐ 690 Other	☐ 865 RSI (405(g))
☐ 900 Appeal of Fee Determi-nation Under Equal Access to Justice	☐ 230 Rent Lease & Ejectment	☐ 465 Other Immigration Actions			FEDERAL TAX SUITS
	☐ 240 Torts to Land				☐ 870 Taxes (U.S. Plaintiff or Defendant)
☐ 950 Constitutionality of State Statutes	☐ 245 Tort Product Liability				☐ 871 IRS-Third Party 26 USC 7609
	☐ 290 All Other Real Property				

CV10•10045

FOR OFFICE USE ONLY: Case Number: _____

AFTER COMPLETING THE FRONT SIDE OF FORM CV-71, COMPLETE THE INFORMATION REQUESTED BELOW.

CIVIL COVER SHEET

VIII(a). IDENTICAL CASES: Has this action been previously filed in this court and dismissed, remanded or closed? ☑No   ☐ Yes
If yes, list case number(s): _____

VIII(b). RELATED CASES: Have any cases been previously filed in this court that are related to the present case? ☑No   ☐ Yes
If yes, list case number(s): _____

Civil cases are deemed related if a previously filed case and the present case:
(Check all boxes that apply)   ☐ A. Arise from the same or closely related transactions, happenings, or events; or

   ☐ B. Call for determination of the same or substantially related or similar questions of law and fact; or

   ☐ C. For other reasons would entail substantial duplication of labor if heard by different judges; or

   ☐ D. Involve the same patent, trademark or copyright, <u>and</u> one of the factors identified above in a, b or c also is present.

IX. VENUE: (When completing the following information, use an additional sheet if necessary.)

(a)   List the County in this District; California County outside of this District; State if other than California; or Foreign Country, in which **EACH** named plaintiff resides.
☐   Check here if the government, its agencies or employees is a named plaintiff. If this box is checked, go to item (b).

County in this District:*	California County outside of this District; State, if other than California; or Foreign Country
Los Angeles	

(b)   List the County in this District; California County outside of this District; State if other than California; or Foreign Country, in which **EACH** named defendant resides.
☐   Check here if the government, its agencies or employees is a named defendant. If this box is checked, go to item (c).

County in this District:*	California County outside of this District; State, if other than California; or Foreign Country
	Santa Clara

(c)   List the County in this District; California County outside of this District; State if other than California; or Foreign Country, in which **EACH** claim arose.
   Note: In land condemnation cases, use the location of the tract of land involved.

County in this District:*	California County outside of this District; State, if other than California; or Foreign Country
Los Angeles	

* Los Angeles, Orange, San Bernardino, Riverside, Ventura, Santa Barbara, or San Luis Obispo Counties
<u>Note: In land condemnation cases, use the location of the tract of land involved</u>

X. SIGNATURE OF ATTORNEY (OR PRO PER): _____   Date 12-29-10

Notice to Counsel/Parties: The CV-71 (JS-44) Civil Cover Sheet and the information contained herein neither replace nor supplement the filing and service of pleadings or other papers as required by law. This form, approved by the Judicial Conference of the United States in September 1974, is required pursuant to Local Rule 3-1 is not filed but is used by the Clerk of the Court for the purpose of statistics, venue and initiating the civil docket sheet. (For more detailed instructions, see separate instructions sheet.)

Key to Statistical codes relating to Social Security Cases:

Nature of Suit Code	Abbreviation	Substantive Statement of Cause of Action
861	HIA	All claims for health insurance benefits (Medicare) under Title 18, Part A, of the Social Security Act, as amended. Also, include claims by hospitals, skilled nursing facilities, etc., for certification as providers of services under the program. (42 U.S.C. 1935FF(b))
862	BL	All claims for "Black Lung" benefits under Title 4, Part B, of the Federal Coal Mine Health and Safety Act of 1969. (30 U.S.C. 923)
863	DIWC	All claims filed by insured workers for disability insurance benefits under Title 2 of the Social Security Act, as amended; plus all claims filed for child's insurance benefits based on disability. (42 U.S.C. 405(g))
863	DIWW	All claims filed for widows or widowers insurance benefits based on disability under Title 2 of the Social Security Act, as amended. (42 U.S.C. 405(g))
864	SSID	All claims for supplemental security income payments based upon disability filed under Title 16 of the Social Security Act, as amended.
865	RSI	All claims for retirement (old age) and survivors benefits under Title 2 of the Social Security Act, as amended. (42 U.S.C. (g))