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(54) MANAGEMENT OF PERMIT CODES

VERWALTUNG VON ZUGANGS-KODES

GESTION DE CODES D'AUTORISATION

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Description

Technical field

[0001] The present invention relates to a procedure and an arrangement for management of permit codes intended to be used to give admittance to a plant/premises, for instance a house which is equipped with a code locking system.

Background

[0002] Nowadays code locking devices are very common, for instance in block of flats or at working places. One problem with such code locks is that the codes normally very seldom are changed, which results in that they continuously will be known to an ever increasing group of people. For the sake of convenience, the code is frequently disclosed when casual guests shall be admitted. Another problem is that it can be both time-consuming and expensive for a company or a landlord to change codes at a large number of code locks. A specific problem is to give a person admittance to the plant/premises a limited number of times, or during a limited time.

[0003] SE469357 discloses a method for passage control, in which a person, who is to be authorized to pass, is allocated a code which is supplied by the person to a comparison unit. The allocated code is calculated by a calculating unit according to an algorithm on the basis of an individual personal code for the person. The comparison unit is supplied with the personal code, and calculates on the basis thereof a corresponding code according to said algorithm and compares the code supplied by the person with that calculated by the comparison unit.

[0004] US-A-4721954 discloses a conventionnel code management for hotel room access.

Summary of the invention

[0005] With the aim to overcome the above described problems, the present invention consequently relates to a procedure according to claim 1. The identity information can be stored in a database.

[0006] When the permit code server distributes the permit code to the code lock, it preferably also transmits validity information to the code lock regarding the validity of the distributed permit code. Such validity information can be about how long time the distributed permit code shall be valid, or the number of enterings in the code lock the distributed permit code shall be valid for. Just for the sake of information, said validity information is preferably also transmitted to the first person in connection with that he/she receives the generated permit code.

[0007] Preferably the permit code is distributed to the first person in form of a text message to a mobile telephone belonging to this first person, over any mobile telephone system. The mobile telephone number for said

mobile telephone is preferably transmitted from the second person to the permit code server in connection with the transmission of request to give the first person admittance to the plant/premises.

[0008] With the aim to overcome said problems, the present invention also relates to an arrangement according to claim 8. The code lock includes code entering devices, for instance in form of a key set for entering of PIN-code or a loudspeaker and a voice detector system for detection of a pronounced code.

[0009] Preferably is the second person's communication device connected, from a communication point of view, to the input port of the permit code server via a network.

[0010] Further, said distribution device is preferably arranged to distribute validity information to the code lock, regarding the validity of the distributed permit code. Such validity information includes for instance information about for how long the distributed permit code shall be valid, or the number of enterings in the code lock for which the distributed permit code shall be valid. Preferably, said distribution devices are further arranged also to distribute said validity information to the first person's communication device.

[0011] In the arrangement according to the invention said distribution devices are preferably arranged to distribute the permit code to the first person in form of a text message to his/her communication device. The first person's communication device is for instance a mobile telephone, at which said permit code server is arranged to, from its input port, receive information about the first person's mobile telephone number, and where said distribution devices at that are arranged to transmit the permit code to said mobile telephone over said mobile telephone system. In another example is the first person's communication device a computer connected to a network, at which said permit code server is arranged to from said input port receive information about the network address of the computer, at which said distribution devices are arranged to transmit the permit code to said computer over said network.

[0012] In the arrangement according to the invention, the second person's communication device is, for instance, a mobile telephone, arranged to communicate with the input port of the permit code server over a mobile telephone system. In another embodiment, the second person's communication device is a computer, arranged to communicate with the input port of the permit code server over a data communication network.

Brief description of the drawing

[0013] The invention is presented in detail below with reference to the enclosed drawing, where

Figure 1 shows a preferred embodiment of the arrangement according to the present invention.

Detailed description of preferred embodiments

[0014] The present invention is suited, for instance, for code locks/code locking systems in apartment houses, and makes possible for a tenant to, in a simple way, give a visitor admittance to the house without risking that the ordinary permit code, i.e. entry code number, is disclosed. The invention consequently is based on that a tenant A via a mobile telephone or a computer connected to Internet can request that a temporary code is transmitted parallel to the person B, i.e. the visitor, who shall pass by a code lock, and to the electronic code lock. When the visitor B then enters the code by one at the code lock arranged code entering device, the code will be known by the code lock and the front-door can be opened. The invention implies that the security is improved by the code being only temporary, i.e. it is valid during one in advance defined period of time, or that it only can be used for one in advance defined number of times, for instance one time. The validity information, i.e. how long time, or how many times, the code shall be valid for can either be determined by the person A when he/she requests that the momentary permit code shall be distributed, or by the permit code generator which generates the permit codes and distributes them to the code lock and the visiting person B.

[0015] In Figure 1 is shown schematically a preferred embodiment of the arrangement according to the present invention. In this embodiment, the person B wants admittance to the house 1, and then has to pass a front-door which is equipped with a code lock 2. The plant/premises 1 can also be an enclosed zone where the front-door that is protected by the code lock 2 is a gate. The code lock 2 can be a code lock equipped with keys according to known technology, or a device with microphone and speech recognition means, arranged to detect a pronounced code. The code lock 2 differs from ordinary locks in that it includes a connection to a permit code server 3. In a bigger apartment there may be a plurality of front-doors, each equipped with a code lock, which can be programmed with different or the same codes. If the permit code server is located in the house 1, the code locks 2 are preferably connected to the permit code server 3 via cables. If there instead is a permit code server arranged for a plurality of different houses, it may be suitable to arrange the connection between the permit code server and the code lock, or the locks, via a communication network. For instance can the connection be arranged via radio over a mobile telephone system, such as GSM. In one embodiment, the connection is arranged over Internet, where each code lock has a given IP-address. In addition to that the code lock 2 is arranged to communicate with the permit code server 3, it includes device to receive information from the permit code server 3 and act on basis of this information. The permit code server is preferably arranged to transmit permit codes to the code locks 2, at which the code locks includes means to store the transmitted permit codes and to open the front-

door the code lock refers to, at entering of a stored code. The code lock is also arranged to receive validity information and to store this validity information. If a code lock receives information about that a transmitted permit code only shall be valid for instance for an hour, the code lock is arranged to after the expiration of this hour delete the stored permit code and at that refuse admission through the port in question at entering of said deleted permit code. The code lock 2 can also be arranged to communicate to the permit code server 3. The code lock consequently can report to the permit code server when a permit code has been entered via the code entering device, and a person B is admitted into the house 1, or when anybody has entered a wrong or expired code. Alternative channels for communication between the permit code server 3 and the code lock 2 can, for instance, be a PSTN-modem, SMS or MiniCall.

[0016] In the figure of the preferred embodiment is also shown that the visiting person B has a communication device 4, in the figure illustrated as a mobile telephone. Consequently the permit code server 3 is arranged to transmit the temporary permit code to the communication device 4, parallel with that the permit code is distributed to the code lock 2. In the case that the communication device 4 is a mobile telephone, the code is preferably distributed over a mobile telephone network. It is of course also possible that the visiting person B can have the code transmitted to his/her home, or in another place, to a computer connected to Internet. In the case the communication device 4 is a mobile telephone, the permit code is preferably transmitted via a text message, such as SMS, and is preferably accompanied by the validity information that has been transmitted to the code lock. This informs the person B about when he/she at the latest has a chance to be admitted into the house 1, or how many times the person B can get admittance with the same code.

[0017] In the figure 1 is also shown how a person A can communicate with the permit code server via a communication device 5. In the illustrated embodiment, this communication device 5 is a computer connected to the permit code server 3 via any communication network. In the cases the permit code server is located in a house in which the person A is located, the communication between the communication device 5 and the permit code server 3 can be made over an internal, local network. It is of course also possible to arrange the communication over Internet or over the fixed telephone network. In yet another alternative embodiment, the communication between the person A and the permit code server 3 can be made by a communication device 5 in form of a mobile telephone, over any mobile telephone system.

[0018] Below is described, by means of an example, how the invention can be utilized. Suppose that the person A is a tenant who is living in the house 1. The person A has a communication device 5, which is connected, or can be connected/set up, to a permit code server 3 which controls the code lock 2 of the house 1. The code lock 2

is in known way programmed with at least one valid permit code which is known to the tenant A. When the tenant A shall have a visit from a visitor B, it may be inadvisable to disclose the programmed permit code, especially if it is used by a plurality of tenants in the same house. If the person B, for instance, is a deliveryman who only shall be admitted one time, the person A transmits a message via his/her communication device 5 to the permit code server 3 about distributing a temporary code to the person B. With this request the person A encloses information about where the permit code shall be distributed. In a house with a plurality of front-doors equipped with code locks, this information can include which code lock (and front-door) that is intended, and an address for the person B. This address is preferably a GSM-number or an IP-address. When the tenant A in this case wants to give admittance to a deliveryman, the person A in addition encloses validity information to the permit code server 3 that the permit code only shall be valid for one entering of code. A permit code generator, preferably a random number generator, in the permit code server after that generates a temporary permit code. Distribution devices arranged in the permit code server, after that attends to that the generated permit code is distributed to the code lock 2 and the communication device 4 which have been identified in the information from the person A's communication device 5. It is realized here that the person A in said information can identify a plurality of code locks 2 and/or a plurality of persons B to whom the permit code shall be distributed.

[0019] The code lock 2 receives the generated permit code and stores it in a memory. Also the validity information is transmitted from the permit code server 3 and is stored in memory in the code lock 2. The permit code is transmitted to the person B to his/her communication device 4, and is presented to the person B in a suitable way, for instance on a display in form of a text message. Preferably is also the validity information that is transmitted from the permit code server 3 presented. The person B is by that informed about which permit code he/she has to enter at the code lock 2 to be admitted into the house 1. When the person 3 enters the generated permit code at the code lock 2, the person B consequently is admitted at the same time as the code lock 2 detects that the permit code after that shall be invalid. Consequently, the generated permit code is deleted from the code lock 2, at which the risk is minimized that unauthorized persons shall be admitted into the house 1.

[0020] In one alternative embodiment, A need not explicitly indicate the address for where the permit code shall be distributed to reach the person B. Instead is indicated a name or a code at the communication device 5 and is transmitted to the permit code server 3. This will in its turn, by means said name or code, derive the correct address from a database 6, connected to the permit code server 3. Such a procedure can be suitable where anybody, for instance a receptionist, manages a large number of admittances to the domains 1 of a company.

In one embodiment is also the validity information preselected and stored in the database 6, together with the address for the communication device to which the permit code shall be distributed.

[0021] It should also be realized that the permit code which is generated in the permit code server 3 need not be temporary. It is also possible to conceive that a landlord A distributes new semi-stationary permit codes in the same way to both his/her tenants B and the code lock 2 of the house 1.

[0022] One advantage with the arrangement according to the present invention, where tenants A are given possibility to via communication devices 5, give temporary visitors B a temporary permit code, is that the permit code server 3 can be arranged also to log who has requested that a temporary code shall be distributed. At abuse, the permit code server 3 consequently can deny tenants A to supply temporary permit codes.

[0023] A large number of embodiments are obvious for the arrangement according to the present invention. The invention, however, is only limited by the enclosed patent claims.

Claims

1. Procedure to give a first person (B) admittance to a plant/premises (1) equipped with code lock (2), including the steps that:

- a permit code server (3) generates a permit code;
- the permit code server (3) parallel distributes the permit code to the first person (B) and to the code lock (2) of the plant/premises, at which;
- the code lock (2) is arranged to give admittance to the plant/premises (1) at entering of said permit code, where a second person (A), who has admittance to the plant/premises (1), in a first phase transmits a request to the permit code server (3) about giving the first person (B) admittance to the plant/premises (1),

where said second person (A), together with said request, transmits information about to where the permit code shall be distributed, or

where said second person (A), together with said request, transmits identity information regarding the first person (B), by means of which identity information the permit code server (3) derives information about to where the permit code shall be distributed.

2. Procedure as claimed in patent claim 1, where the permit code server (3) transmits validity information to the code lock (2) regarding the validity of the distributed permit code.

3. Procedure as claimed in patent claim 2, where said

validity information includes information about how long time the distributed permit code shall be valid for

4. Procedure as claimed in patent claim 2, where said validity information includes information about the number of enterings in the code lock (2) which the distributed permit code shall be valid for.
5. Procedure as claimed in any of the patent claims 2-4, where said validity information also is distributed to the first person (B).
6. Procedure as claimed in any of the previous patent claims, where the permit code server's distribution of the permit code to the first person (B) is made in form of a text message to a mobile telephone (4) belonging to the first person (B).
7. Procedure as claimed in patent claim 6 in combination with patent claim 3, where the second person's (A) request to the permit code server (3) is transmitted together with the first person's (8) mobile telephone number.
8. Arrangement for management of a person's (B) admittance to a plant/premises (1) which is equipped with code lock (2), in which arrangement a permit code server (3) is, from a communication point of view, connected to said code lock (2), which permit code server (3) includes a permit code generator and distribution devices arranged to distribute one by the permit code generator generated permit code to a communication device (4) belonging to a first person (8), and to said code lock (2), which code lock (2) includes code input device and is arranged to allow admittance to the plant/premises (1) at input by the code input device of a permit code generated and transmitted to the code lock (2) by said permit code server (3), where said permit code server (3) further includes an input port arranged to, from a second persons (A) communication device (5), receive a request to the permit code server (3) about giving the first person (B) admittance to the plant/premises (1), where said permit code server (3) is arranged to, from said input port, receive information about to where a permit code shall be distributed, and where said distribution devices are arranged to transmit the permit code to a communication device (4) which is identified in said received information, or where said permit code server (3) is arranged to, from said input port, receive identity information regarding the first person (B), where said permit code server includes devices arranged to, by means of said identity information, derive information in a database (6) which, from a communication point of view, is connected to the permit code server (3), about to where a permit code shall be distributed, and where said distribution devices are arranged to

transmit the permit code to a communication device (4) which is identified in said derived information.

9. The arrangement as claimed in patent claim 8, where said distribution devices are arranged to transmit validity information to the code lock (2) regarding the validity of the distributed permit code.
10. The arrangement as claimed in patent claim 9, where said validity information includes information about how long time the distributed permit code shall be valid for.
11. The arrangement, as claimed in patent claim 9, where said validity information includes information about the number of enterings in the code lock (2) which the distributed permit code shall be valid for.
12. The arrangement as claimed in any of the patent claims 9-11 where said distribution devices are arranged to also distribute said validity information to the first person's (B) communication device (4).
13. The arrangement as claimed in any of the patent claims 8-12, where said distribution devices are arranged also to distribute the permit code to the first person (B) in form of a text message to the first person's (B) communication device (4).
14. The arrangement as claimed in patent claim 8, where the first person's (B) communication device (4) is a mobile telephone, at which said permit code server (3) is arranged to, from said input port, receive information about the first person's (B) mobile telephone number, and where said distribution devices at that are arranged to transmit the permit code to said mobile telephone (4) over a mobile telephone system.
15. The arrangement as claimed in patent claim 8, where the first person's (B) communication device (4) is a computer connected to a network, at which said permit code server (3) is arranged to, from said input port, receive information about the network address of said computer, and where said distribution devices at that are arranged to transmit the permit code to said computer over said network.
16. The arrangement as claimed in any of the patent claim 14 and 15, where the second person's (A) communication device (5) is a mobile telephone, arranged to communicate with the input port of the permit code server (3) over a mobile telephone system.
17. The arrangement as claimed in any of the patent claims 14 and 15, where the second person's (A) communication device (5) is a computer, arranged to communicate with the input port of the permit code server over a data communication network.

Patentansprüche

1. Verfahren, einer ersten Person (B) Zutritt zu einem Betrieb, Grundstück oder Räumlichkeiten (1) zu gewähren, der/die mit einem Codeschloss (2) ausgerüstet ist/sind, das die Schritte einschließt, dass:
 - ein Erlaubniscodeserver (3) einen Erlaubniscode erzeugt;
 - der Erlaubniscodeserver (3) den Erlaubniscode parallel zu der ersten Person (B) und zum Codeschloss (2) des Betriebs, Grundstücks oder der Räumlichkeiten verteilt, wobei
 - das Codeschloss (2) dazu ausgebildet ist, beim Eingeben des Erlaubniscodes Zutritt zu dem Betrieb, Grundstück oder den Räumlichkeiten (1) zu gewähren, wobei eine zweite Person (A), die Zutritt zu dem Betrieb, Grundstück oder den Räumlichkeiten (1) hat, in einer ersten Phase eine Anforderung an den Erlaubniscodeserver (3) sendet, der ersten Person (B) Zutritt zum Betrieb, Grundstück oder den Räumlichkeiten (1) zu gewähren,
 - wobei die zweite Person (A) zusammen mit der Anforderung Information überträgt, wohin der Erlaubniscode verteilt werden soll, oder
 - wobei die zweite Person (A) zusammen mit der Anforderung Identitätsinformation, die die erste Person (B) betrifft, überträgt, mit Hilfe welcher Identitätsinformation der Erlaubniscodeserver (3) Information darüber ableitet, wohin der Erlaubniscode verteilt werden soll.
2. Verfahren nach Patentanspruch 1, wobei der Erlaubniscodeserver (3) Gültigkeitsinformation zum Codeschloss (2) überträgt, die die Gültigkeit des verteilten Erlaubniscodes betrifft.
3. Verfahren nach Patentanspruch 2, wobei die Gültigkeitsinformation Information darüber einschließt, für eine wie lange Zeit der verteilte Erlaubniscode gültig sein soll.
4. Verfahren nach Patentanspruch 2, wobei die Gültigkeitsinformation Information über die Anzahl von Eingaben in das Codeschloss (2) einschließt, für die der verteilte Erlaubniscode gültig sein soll.
5. Verfahren nach einem der Patentansprüche 2 bis 4, wobei die Gültigkeitsinformation auch zur ersten Person (B) verteilt wird.
6. Verfahren nach einem der vorangehenden Patentansprüche, wobei die Verteilung des Erlaubniscodes durch den Erlaubniscodeserver zu ersten Person (B) in Form einer Textmeldung zu einem mobilen Telefon (4) vorgenommen wird, das der ersten Person (B) gehört.
7. Verfahren nach Patentanspruch 6 in Kombination mit Patentanspruch 3, wobei die Anforderung der zweiten Person (A) an den Erlaubniscodeserver (3) zusammen mit der Mobiltelefonnummer der ersten Person (B) übertragen wird.
8. Anordnung für Verwaltung des Zutritts einer Person (B) zu einem Betrieb, Grundstück oder Räumlichkeiten (1), der/die mit einem Codeschloss (2) versehen ist/sind, in welcher Anordnung ein Erlaubniscodeserver (3) unter einem Kommunikationsgesichtspunkt mit dem Codeschloss (2) verbunden ist, welcher Erlaubniscodeserver (3) einen Erlaubniscodeerzeuger und Verteilungseinrichtungen einschließt, die dazu ausgebildet sind, einen durch den Erlaubniscodeerzeuger erzeugten Erlaubniscode zu einer Kommunikationseinrichtung (4), die zu einer ersten Person (B) gehört, und zu dem Codeschloss (2) zu verteilen, welches Codeschloss (2) eine Codeeingabeeinrichtung einschließt und dazu ausgebildet ist, Zutritt zum Betrieb, Grundstück oder den Räumlichkeiten (1) bei Eingabe eines Erlaubniscodes durch die Codeeingabeeinrichtung, der durch den Erlaubniscodeserver (3) erzeugt und zum Codeschloss (2) übertragen ist, zu erlauben, wobei der Erlaubniscodeserver (3) weiter einen Eingabeanschluss einschließt, der dazu ausgebildet ist, von einer Kommunikationseinrichtung (5) einer zweiten Person (A) eine Anforderung an den Erlaubniscodeserver (3) darüber zu empfangen, der ersten Person (B) Zutritt zum Betrieb, Grundstück oder den Räumlichkeiten (1) zu gewähren, welcher Erlaubniscodeserver (3) dazu ausgebildet ist, von dem Eingabeanschluss Information darüber zu empfangen, wohin ein Erlaubniscode verteilt werden soll, und wobei die Verteilungseinrichtungen dazu ausgebildet sind, den Erlaubniscode zu einer Kommunikationseinrichtung (4) zu übertragen, die in der empfangenden Information identifiziert ist, oder wobei der Erlaubniscodeserver (3) dazu ausgebildet ist, von dem Eingabeanschluss Identitätsinformation zu empfangen, die die erste Person (B) betrifft, wobei der Erlaubniscodeserver Einrichtungen einschließt, die dazu ausgebildet sind, mit Hilfe der Identitätsinformation Information in einer Datenbank (6), die unter einem Kommunikationsgesichtspunkt mit dem Erlaubniscodeserver (3) verbunden ist, darüber abzuleiten, wohin ein Erlaubniscode verteilt werden soll, und wobei die Verteilungseinrichtungen dazu ausgebildet sind, den Erlaubniscode zu einer Kommunikationseinrichtung (4) zu übertragen, die durch die abgeleitete Information identifiziert wird.
9. Anordnung nach Patentanspruch 8, wobei die Verteilungseinrichtungen dazu ausgebildet sind, Gültigkeitsinformation zum Codeschloss (2) zu übertragen, die der Gültigkeit des verteilten Erlaubniscodes betrifft.

10. Anordnung nach Patentanspruch 9, wobei die Gültigkeitsinformation Information darüber einschließt, für eine wie lange Zeit der verteilte Gültigkeitscode gültig sein soll.
11. Anordnung nach Patentanspruch 9, wobei die Gültigkeitsinformation Informationen über die Anzahl von Eingaben in das Codeschloss (2) einschließt, für welche der verteilte Zutrittscode gültig sein soll.
12. Anordnung nach einem der Patentansprüche 9 bis 11, wobei die Verteilungseinrichtungen dazu ausgebildet sind, die Gültigkeitsinformation auch zur Kommunikationseinrichtung (4) der ersten Person (B) zu verteilen.
13. Anordnung nach einem der Patentansprüche 8 bis 12, wobei die Verteilungseinrichtungen dazu ausgebildet sind, den Erlaubniscode auch zur ersten Person (B) in Form einer Textmeldung zur Kommunikationseinrichtung (4) der ersten Person (B) zu verteilen.
14. Anordnung nach Patentanspruch 8, wobei die Kommunikationseinrichtung (4) der ersten Person (B) ein mobiles Telefon ist, wobei der Erlaubniscode-server (3) dazu ausgebildet ist, von dem Eingabeanschluss Information über die Mobiltelefonnummer der ersten Person (B) zu empfangen, und wobei die Verteilungseinrichtungen dazu ausgebildet sind, den Erlaubniscode zu dem mobilen Telefon (4) über ein Mobiltelefonsystem zu übertragen.
15. Anordnung nach Patentanspruch 8, wobei die Kommunikationseinrichtung (4) der ersten Person (B) ein Computer ist, der mit einem Netz verbunden ist, wobei der Erlaubniscode-server (3) dazu ausgebildet ist, von seinem Eingabeanschluss Information über die Netzadresse des Computers zu empfangen, und wobei die Verteilungseinrichtungen dazu ausgebildet sind, den Erlaubniscode zu dem Computer über das Netz übertragen.
16. Anordnung nach einem der Patentansprüche 14 und 15, wobei die Kommunikationseinrichtung (5) der zweiten Person (A) ein mobiles Telefon ist, das dazu ausgebildet ist, mit dem Eingangsanschluss des Erlaubniscode-servers (3) über ein Mobiltelefonsystem zu kommunizieren.
17. Anordnung nach einem der Patentansprüche 14 und 15, wobei die Kommunikationseinrichtung (5) der zweiten Person (A) ein Computer ist, der dazu ausgebildet ist, mit dem Eingabeanschluss des Erlaubniscode-servers über ein Datenkommunikationsnetz zu kommunizieren.

Revendications

1. Procédure pour donner à une première personne (B) l'accès à des installations/locaux (1) équipés d'une serrure à code (2), comportant les étapes selon lesquelles :
 - un serveur de code d'autorisation (3) génère un code d'autorisation ;
 - le serveur de code d'autorisation (3) distribue parallèlement le code d'autorisation à la première personne (B) et à la serrure à code (2) des installations/locaux, à laquelle ;
 - la serrure à code (2) est agencée pour donner l'autorisation aux installations/locaux quand ledit code d'autorisation est entré, où une seconde personne (A), qui a l'accès aux installations/locaux, dans une première phase, transmet une requête au serveur de code d'autorisation (3) pour donner à la première personne (B) l'accès aux installations/locaux, où la seconde personne (A), en même temps que ladite requête, transmet l'information sur où le code d'autorisation doit être distribué,
- ou bien, où ladite seconde personne (A), en même temps que ladite requête, transmet une information d'identité concernant la première personne (B), grâce à laquelle information d'identité le serveur de code d'autorisation (3) déduit l'information sur où le code d'autorisation doit être distribué.
2. Procédure selon la revendication de brevet 1, selon laquelle le serveur de code d'autorisation (3) transmet une information de validité à la serrure à code (2) concernant la validité du code d'autorisation distribué.
3. Procédure selon la revendication de brevet 2, selon laquelle ladite information de validité comporte une information sur combien de temps le code d'autorisation distribué sera valide.
4. Procédure selon la revendication de brevet 2, selon laquelle ladite information de validité comporte une information sur le nombre d'entrées dans la serrure à code (2) pour lesquelles le code d'autorisation sera valide.
5. Procédure selon l'une quelconque des revendications de brevet 2-4, selon laquelle ladite information de validité est aussi distribuée à la première personne (B).
6. Procédure selon l'une quelconque des revendications de brevet précédentes, selon laquelle la distribution du code d'autorisation par le serveur de code d'autorisation à la première personne (B) est faite

sous forme d'un message textuel à un téléphone mobile (4) appartenant à la première personne (B).

7. Procédure selon la revendication de brevet 6 en combinaison avec la revendication de brevet 3, selon laquelle la requête de la seconde personne (A) au serveur de code d'autorisation (3) est transmise avec le numéro de téléphone mobile de la première personne (B).
8. Agencement de gestion de l'accès d'une personne (B) à des installations/locaux (1) qui sont équipés d'une serrure à code (2), dans lequel agencement un serveur de code d'autorisation (3) est, du point de vue de la communication, connecté à ladite serrure à code (2), lequel serveur de code d'autorisation (3) comporte un générateur de code d'autorisation et des dispositifs de distribution agencés pour distribuer un code d'autorisation généré par le générateur de code d'autorisation à un dispositif de communication (4) appartenant à la première personne (B), et à ladite serrure à code (2), laquelle serrure à code (2) comporte un dispositif d'entrée de code et est agencée pour autoriser l'accès aux installations/locaux lorsqu'est entré sur le dispositif d'entrée de code un code d'autorisation généré et transmis à la serrure à code (2) par ledit serveur de code d'autorisation (3), où ledit serveur de code d'autorisation (3) comporte en outre un port d'entrée agencé pour, à partir du dispositif de communication (5) d'une seconde personne (A), recevoir une requête au serveur de code d'autorisation (3) en vue de donner à la première personne (B) l'accès aux installations/locaux, où ledit serveur de code d'autorisation (3) est agencé pour, à partir dudit port d'entrée, recevoir une information sur où un code d'autorisation sera distribué, et où lesdits dispositifs de distribution sont agencés pour transmettre le code d'autorisation à un dispositif de communication (4) qui est identifié dans ladite information reçue, ou bien où ledit serveur de code d'autorisation (3) est agencé pour, à partir dudit port d'entrée, recevoir une information d'identité concernant la première personne (B), où ledit serveur de code d'autorisation (3) comporte des dispositifs agencés pour, au moyen de ladite information d'identité, déduire une information dans une base de données (6) qui, d'un point de vue de la communication, est connectée au serveur de code d'autorisation (3), sur où un code d'autorisation sera distribué, et où lesdits dispositifs de distribution sont agencés pour transmettre le code d'autorisation à un dispositif de communication (4) qui est identifié dans ladite information déduite.
9. Agencement selon la revendication de brevet 8, dans lequel lesdits dispositifs de distribution sont agencés pour transmettre l'information de validité à la serrure à code (2) concernant la validité du code

d'autorisation.

10. Agencement selon la revendication de brevet 9, dans lequel ladite information de validité comporte l'information sur combien de temps le code d'autorisation distribué sera valide.
11. Agencement selon la revendication de brevet 9, dans lequel ladite information de validité comporte une information sur le nombre d'entrées dans la serrure à code (2) pour lesquelles le code d'autorisation sera valide.
12. Agencement selon l'une quelconque des revendications de brevet 9-11, dans lequel lesdits dispositifs de distribution sont agencés pour aussi distribuer ladite information de validité au dispositif de communication (4) de la première personne (B).
13. Agencement selon l'une quelconque des revendications de brevet 8-12, dans lequel lesdits dispositifs de distribution sont agencés pour aussi distribuer le code d'autorisation à la première personne (B) sous forme d'un message textuel au dispositif de communication (4) de la première personne (B).
14. Agencement selon la revendication de brevet 8, dans lequel le dispositif de communication (4) de la première personne (B) est un téléphone mobile, au niveau duquel ledit serveur de code d'autorisation (3) est agencé pour, à partir dudit port d'entrée, recevoir l'information sur le numéro de téléphone mobile de la première personne (B), et dans lequel lesdits dispositifs de distribution à ce niveau sont agencés pour transmettre le code d'autorisation audit téléphone mobile (4) en passant par un système de téléphonie mobile.
15. Agencement selon la revendication de brevet 8, dans lequel le dispositif de communication (4) de la première personne (B) est un ordinateur connecté à un réseau, au niveau duquel ledit serveur de code d'autorisation (3) est agencé pour, à partir dudit port d'entrée, recevoir l'information sur l'adresse de réseau dudit ordinateur, et dans lequel lesdits dispositifs de distribution à ce niveau sont agencés pour transmettre le code d'autorisation audit ordinateur en passant par ledit réseau.
16. Agencement selon l'une quelconque des revendications de brevet 14 et 15, dans lequel le dispositif de communication de la seconde personne (A) est un téléphone mobile, agencé pour communiquer avec le port d'entrée du serveur de code d'autorisation (3) en passant par un système de téléphonie mobile.
17. Agencement selon l'une quelconque des revendications de brevet 14 et 15, dans lequel le dispositif de

communication (5) de la seconde personne (A) est un ordinateur, agencé pour communiquer avec le port d'entrée du serveur de code d'autorisation (3) en passant par un réseau de communication de données.

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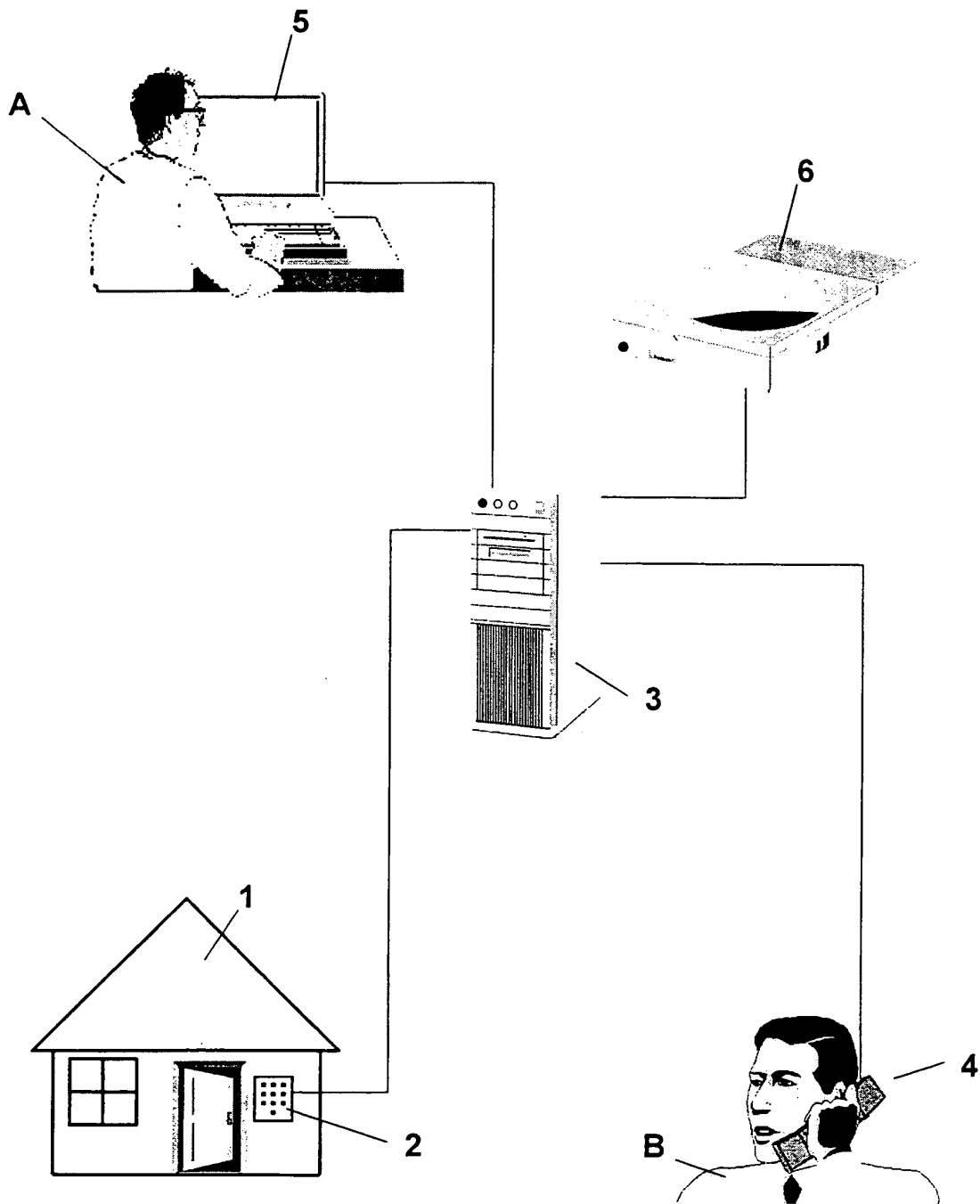


Figure 1

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

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