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(54) **Titre : PROCEDURE POUR EFFECTUER UNE LOTERIE**  
 (54) **Title: METHOD OF CONDUCTING A LOTTERY**

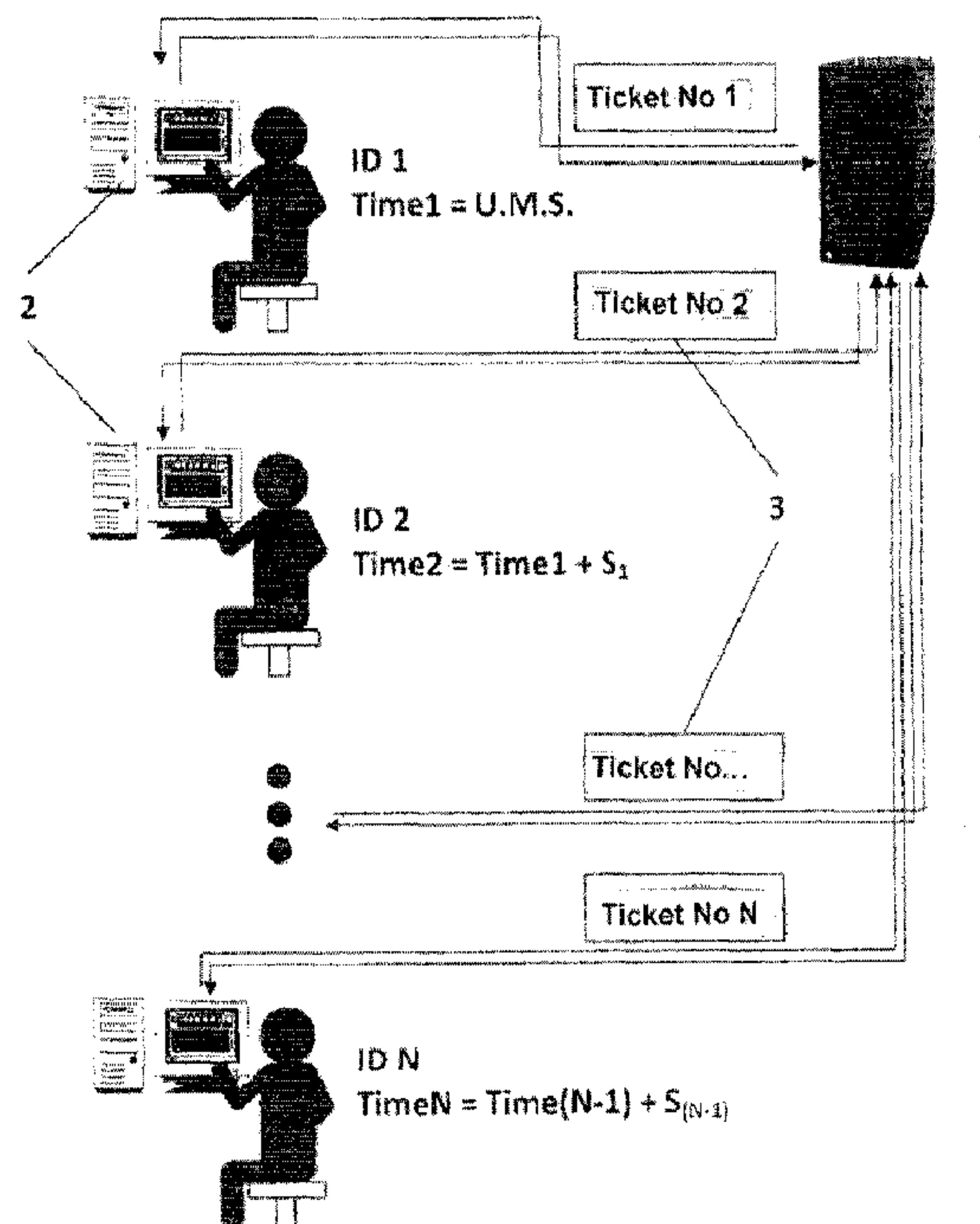


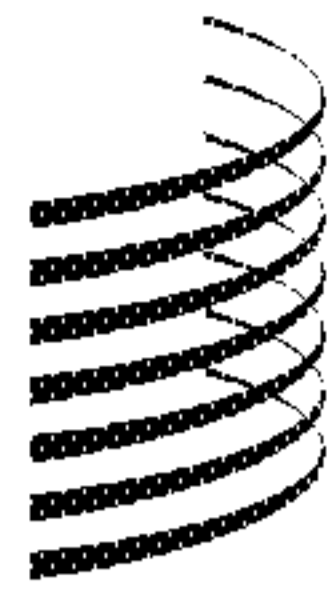
Fig. 1

(57) **Abrégé/Abstract:**

The invention relates to large-scale collective games and can be used in holding various types of lotteries. The technical result consists in simplifying the holding of a lottery by means of decreasing the quantity of circulating documents, eliminating the need for

**(57) Abrégé(suite)/Abstract(continued):**

participants to remember information, and making it possible to conduct multi-level lotteries. The process of determining winning lottery ticket numbers is carried out in at least one round, and a request for participation in a lottery is submitted together with the registration of data identifying a participant in the lottery. The registration data of each individual are linked to each lottery participation request and to a number assigned to a participant in the order in which the request is received in real time. A draw for a main prize fund is carried out for one of the lottery tickets by using a drawing machine which is set for limiting possible combinations of numbered lottery balls drawn, taking into consideration the following conditions: the total number of lottery balls drawn equals the number of digits in the number corresponding to the total number of participating lottery tickets; a first lottery ball and subsequent lottery balls, which form a winning number, are limited in the drawing thereof to possible combinations of numbers, taking into consideration those numerical values which can provide the winning number with a value which is within the limits of the number corresponding to the total number of participating lottery tickets.

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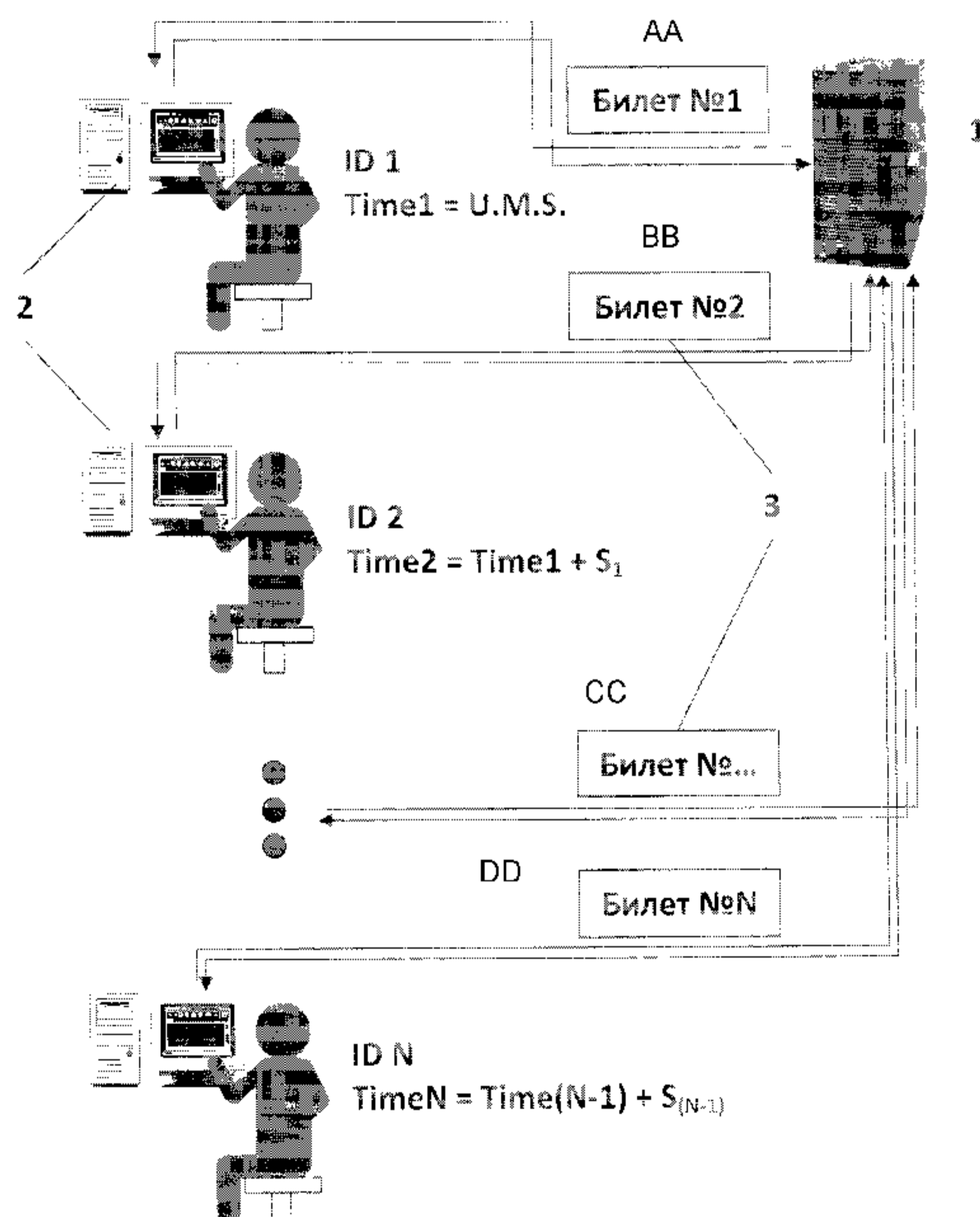
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(54) Title: METHOD FOR HOLDING A LOTTERY

(54) Название изобретения : СПОСОБ ПРОВЕДЕНИЯ ЛОТЕРЕИ



Фиг.1

AA: Ticket Number 1  
BB: Ticket Number 2  
CC: Ticket Number...  
DD: Ticket Number N

(57) Abstract: The invention relates to large-scale collective games and can be used in holding various types of lotteries. The technical result consists in simplifying the holding of a lottery by means of decreasing the quantity of circulating documents, eliminating the need for participants to remember information, and making it possible to conduct multi-level lotteries. The process of determining winning lottery ticket numbers is carried out in at least one round, and a request for participation in a lottery is submitted together with the registration of data identifying a participant in the lottery. The registration data of each individual are linked to each lottery participation request and to a number assigned to a participant in the order in which the request is received in real time. A draw for a main prize fund is carried out for one of the lottery tickets by using a drawing machine which is set for limiting possible combinations of numbered lottery balls drawn, taking into consideration the following conditions: the total number of lottery balls drawn equals the number of digits in the number corresponding to the total number of participating lottery tickets; a first lottery ball and subsequent lottery balls, which form a winning number, are limited in the drawing thereof to possible combinations of numbers, taking into consideration those numerical values which can provide the winning number with a value which is within the limits of the number corresponding to the total number of participating lottery tickets.

(57) Реферат:

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Изобретение относится к массовым коллективным играм и может быть использовано при проведении разных видов лотерей. Техническим результатом является упрощение проведения лотереи путем снижения количества обрабатываемых документов, устранения необходимости запоминания информации участниками, возможность многоуровневого проведения лотереи. Процесс определения выигрышных номеров лотерейных билетов осуществляют, по меньшей мере, в один тур, заявку на участие в лотерее подают с одновременной регистрацией данных, идентифицирующих личность участника лотереи. Указанные регистрационные данные каждой личности привязывают к каждой заявке на участие в лотерее и номеру, присвоенному участнику в порядке очередности поступления заявок в режиме реального времени. Розыгрыш основного призового фонда производят для одного из лотерейных билетов с использованием лототрона, который настраивают на ограничение возможных комбинаций выпадающих пронумерованных шаров лото с учетом условий: общее количество выпадающих шаров лото равно количеству разрядов числа, соответствующего общему количеству разыгрываемых лотерейных билетов; первые и последующие шары лото, формирующие выигрышное число ограничивают по выпадению возможных комбинаций цифр исходя из тех числовых значений, которые могут обеспечить выигрышному номеру значение в пределах числа, соответствующего общему количеству разыгрываемых лотерейных билетов.

## **METHOD OF CONDUCTING A LOTTERY DESCRIPTION**

The invention relates to mass collective games and may be used to conduct different types of lotteries.

Known game is 'Sportloto' [1]. This game is conducted as follows: before the drawing, the participant acquires a special card used for participating in a particular game, and then marks at least one of the variants of the suggested winning numerical combination. The drawback of the game is the necessity to use special cards, send, store, collect and process them. This lottery is also infamous for restricting the rights of its participants, since in the drawing process the winning numbers may fall on indexes, which were not acquired. Thereby, in addition to the lottery participants with their unique numbers, the numbers acquired by no one participate in the drawing, thus reducing the chances of winning for those taking part in the game.

Also known is the game method of telephone lottery, whereby before the drawing the participants of the game register the drawing information by telephone, as well as their code designed to identify the participants after the drawing, in connection to which the participants of the game register the index consisting of non-repeating numbers [2].

The shortcoming of this lottery is that it restricts the rights of participants, since in the drawing process the winning numbers may fall on the indices acquired by no one. Thereby, in addition to the lottery participants with their unique numbers, the numbers acquired by no one participate in the drawing, thus reducing the chances of winning for those taking part in the game.

There is a known way to conduct a lottery where the participants of the game register the drawing information and their identification code after the drawing, whereas the index, consisting of numbers, letters and other characters, is registered by the participants for the drawing, which is different in a way that indexes consist of unique identification numbers related to a participant or acquired by the participant of the lottery for other purposes, and the participant claims the participation in the lottery using their unique number by agreeing to pay or by actual payment [3].

The drawback of the latter lottery is that it restricts the rights of participants, since in the drawing process the winning numbers may fall on the indices acquired by no one. Thereby, in addition to

the lottery participants with their unique numbers, the numbers acquired by no one participate in the drawing, thus reducing the chances of winning for those taking part in the game.

The closest solution is a method to conduct a lottery [4], whereby its participants are informed about conducting a lottery, accept applications for participation in the lottery, the prize fund of the lottery is established, the winning of the prize fund and the issuance of prizes is conducted, which is different so that after start of the acceptance of the lottery participation applications, the participants of the lottery lodge with the organizer of the lottery by means of remote communication at least one application to participate in the lottery, the organizer of the lottery secures the acceptance and registration of the applications, and informs the participants on the number assigned to the participant's application that turns into a number of an electronic lottery ticket, then the drawing of the prize fund is conducted, while the process of identifying the winning numbers of the lottery tickets is done in at least two rounds, during the first round the lottery tickets are divided into groups according to the criteria known to the participants in advance, and during the second round - from the earlier distributed lottery ticket groups at least one group is randomly picked and the of the electronic tickets of this group become winning, and then the prizes are issued in accordance with the terms of the lottery. The criterion for dividing lottery tickets into groups within the context of one round is the moment of receiving of the application for participation by the organizer or the queue number of the electronic lottery ticket, or the number of applications for participation lodged by one participant of the lottery in the process of the lottery itself. At least one group of winning lottery tickets within the context of the other round is determined by any known means, including a drawing device (lototron). Television, telephone, internet, printed media are used as means of remote communication.

The drawback of this lottery is the absence of personalization of the participants, which allows wrongdoers having access to the ticket registration database to reveal the participant of the winning and to exert physical and mental pressure on him or her before accepting the winning in order to extort the prize or to direct the winning to the fraudster's account. This claimed method also fails to describe the process of establishing the winning lottery tickets, which cannot be implemented according to the aforesaid conditions, including use of the drawing device (lototron), for the following reasons: the game involves a determined number of tickets; when drawing the first and the last digits of the queue number, the drawing device (lototron) and other



typical methods may issue any number from 0 to 9, although the actual value of the involved numbers may fall outside this interval; e.g. the total number of tickets taking part in the drawing may be 34565; thereby, the first number from 4 to 9, also the last number from 6 to 9 cannot be drawn by the drawing device (lototron); consequently, by establishing the winning tickets with the help of the above-mentioned means, the rights of the lottery participants are restricted, since in the drawing process the winning numbers may fail to match the acquired tickets.

Technical result of the invention facilitates the conducting of the lottery by reducing the number of documents to be transacted, and by eliminating the need for participants to memorize information, easing the process of entering the game, and the resulting increase in the number of participants, and a possibility to conduct a multi-staged lottery. Also the technical result is the elimination of restrictions on the rights of participants of the lottery and increasing the chances to win, by eliminating the tickets, which were not acquired, from the game. It also excludes the possibility to issue the prize to another person, except for the one who acquired the lottery ticket or on behalf of whom the ticket was acquired.

The above-mentioned technical result is achieved through the method of conducting a lottery, whereby its participants are informed about conducting a lottery, accept applications for participation in the lottery, the prize fund of the lottery is established, the winning of the prize fund and the issuance of prizes is conducted, while after the start of the acceptance of the lottery participation applications, the participants of the lottery lodge with the organizer of the lottery by means of remote communication at least one application to participate in the lottery, the organizer of the lottery secures the acceptance and registration of the applications, and informs the participants on the number assigned to the participant's application that turns into a number of an electronic lottery ticket, then the drawing of the prize fund is conducted, which is different so that the process of identifying the winning ticket numbers is conducted at least in one round, participation applications are lodged by simultaneously registering the data identifying the drawing lot participant, and the registration data of each person are embedded in the application for participation and the number assigned to the participant; the numbers are assigned to the participant based on the queue of received applications in real-time; the drawing takes place with regard to one of the tickets by means of a drawing device (lototron), adjusted to restrict the number of possible combinations of the numbered lotto balls drawn by the device on the

following conditions: the total number of lotto balls shall be equal to the number of numerical placeholders in the total number of drawing tickets; the first and the next lotto balls constituting the winning number are restricted to the drawing of possible numerical combinations based on the number values that may secure the value of the drawing number within the size of the number matching the total number of drawing tickets.

TV and internet or internet only are used as means of communication.

#### Short description of the drawings

Fig. 1 shows the principle of creating ticket numbers at the moment of ticket purchase.

Fig. 2 shows the principle of creating numbered balls that can be drawn in the drawing device (lototron).

Fig. 3 shows the example of the device and its principle of operation.

Fig. 4 shows the example of construction of the drawing balls and the slot (cut view).

#### Application of the invention

The lottery is conducted so that the participants become holders of certain drawing tickets, which are the simple sequential numbers assigned to each newly registered drawing ticket. In a lottery, the potential participants shall register their identification data on the lottery organizer's server website. The user data shall be correlated with the numbers assigned to the participant's application, which becomes the number of the electronic ticket for the drawing. The drawing of the prize fund is made only from within the numbers of registered applications.

A user shall lodge his or her lottery participation application and register it by paying a particular amount of money set for the game cycle. The number of lottery tickets acquired by one participant is unlimited. The payment of the contribution results in a civil-legal relationship, whereunder the participant is entitled to take part in the lottery and to claim the prize in case of winning.

The lottery is distinguished so that the drawing may be conducted in several levels (rounds). This means that for each level (round) the sum of prizes is different, e.g. for the main prize fund designed for the main drawing for the single ticket, the size of the win may be from 40% to 45% of the total prize fund. After conducting the drawing of the main prize fund, the remaining prize fund may be drawn based on special combinations of the participants' lottery ticket numbers, e.g.



the drawing may involve tickets with at least three identical numbers 1, 2, 3 etc. in their queue number. For example, if the drawing involves the total number of 235567 tickets, the winning numbers of the secondary drawing will be those with at least three identical numbers matching the lotto ball dropping out of the device. Assuming that the ball with a number 7 has dropped out, the winning numbers will be: 777, 1777, 2777, ... , 1777xx, where XX are any numbers from 00 to 67. These winning numbers share the remainder of the prize fund or a part of it and then one or more drawing rounds are conducted by analogy.

Similarly, a lottery may be conducted when selling transportation documents, e.g. railway or air tickets by using their serial numbers. In this case, at the moment of ticket sale the passenger claims their wish to take part in the drawing and the cashier registers the participation and refers the necessary attributes in the ticket with the help of the ticket printing machine, including the queue number of the ticket. In this case, the travel ticket remains with the user as a lottery ticket after being used for direct purposes as a travel ticket and shall form the basis to claim the prize.

The advantage of the claimed method of conducting a lottery is the simplicity of participation, without requiring the participant to memorize any information and no need to undertake any actions, except for the confirmation of the wish to participate, on the one hand, while conducting such a drawing lot allows increasing the attractiveness and competitiveness of the basic service provided to the user in any service sector, on the other hand.

Method to conduct a lottery may be implemented as follows

Users 2 register on the server 1 by entering their registration data. At the moment of ticket purchase the server 1 assigns a number to ticket 3 based on the moment of lodging the application. The number shall be assigned based on the queue of the lodged application (see Fig. 1). The number of lodged ticket purchasing applications matches the total number of combination variants of the drawing. I.e. if N tickets have been purchased, all numbers with N combinations shall take part in the drawing. Drawing lots is performed by the drawing machine 12 (see Fig. 2), which may be implemented based on a sample device (see Fig. 2). A processor or a micro-controller 5 is installed inside of the device 12. An information collector 4 may also be installed, saving the data sent by server 1 from the database, or the information on the numbers taking part in the drawing directly reaches the processor or the micro-controller 5.

The start of operation of the drawing machine 12 depends on the combination of the digit, required to draw all possible combinations. E.g. if the total number of combinations  $N=ABCDEF$ , where A, B, C, D, E, F are any digits from 0 to 9, this means that the device shall roll six cylinders with the balls.

The processor or the micro-controller 5 triggers the loading – starting with the first the cylinder on the left, which is loaded with 6 balls with numbers from 0 to 3.

The said loading may take place by means of the loading module 14 moving along the cylinders and loaded with balls 17 (see Fig. 3). The module 14 is divided into 10 sections, each of them contains balls respectively numbered from 0 to 9. When a ball 17 needs to be loaded into one of the cylinders 6, 7, 8, 9, module 14 approaches the respective section 15, the section moves around its axis and unloads one of the balls to the cylinder through the cavity 18, when the latter meets the loading cavity 16. When the cylinder contains all the balls with all the required numbers, it turns and spins the balls. Consequently, e.g. as can be seen from Fig. 3, the cylinder 6 is turned around with its cavity 16 down and only one ball 17 is unloaded there.

After falling out of the cylinder, the ball 17 drops into a special inclined slot 13 and rolls down where it contacts the RFID reader 19. Each ball 17 contains RFID tags inside 20 (see Fig. 4) matching the ball numbers. When the reader 19 triggers the tag 20, the data is transferred to a processor 5 or a micro-controller, which then calculates the possible numerical combinations with which the balls may be loaded into the next cylinder. Subsequently, the operation after loading the cylinder with the balls and the drawing of the second ball is repeated by analogy for the next cylinder 7, then for the remaining cylinders 8, 9 etc., by drawing the winning lots with larger numbers, where necessary. At the end of the drawing, the balls 17 may be loaded back to the module 14 manually or automatically.

The described example of the drawing machine (lototron) is only one of the possible variations of its technical implementation. A drawing machine may be realized as an electronic screen with the numbers dropping out on the basis of random generation. A simple drawing machine is also possible by manually loading and distributing the balls. Each of these implementation options are covered under the claimed method.

For instance, 347853 combinations must be played on the basis of a drop of any number from 000001 to 347853. The balls numbered from 0 to 3 are loaded into the left cylinder. If numbers

0, 1, 2 drop out, all balls numbered from 0 to 9 are loaded into the next cylinder. If number 3 drops out, only the balls numbered from 0 to 4 are loaded into the next cylinder. The balls are loaded into the remaining cylinders by analogy in sequence from left to right. This is how every other ball is played for the entire row of the six-digit number. As a result, the single number from within the numbers from 000001 to 347853 is drawn, and becomes the winning lot.

Information sources:

1. Website: <http://www.stoloto.ru/6x49>
2. Patent RU2053827
3. Patent EA006282
4. Application RU2010143479 (published on 10.05.2012)



## CLAIMS

1. The method of conducting a lottery, whereby its participants are informed about conducting a lottery, accept applications for participation in the lottery, the prize fund of the lottery is established, the winning of the prize fund and the issuance of prizes is conducted, while after the start of the acceptance of the lottery participation applications, the participants of the lottery lodge with the organizer of the lottery by means of remote communication at least one application to participate in the lottery, the organizer of the lottery secures the acceptance and registration of the applications, and informs the participants on the number assigned to the participant's application that turns into a number of an electronic lottery ticket, then the drawing of the prize fund is conducted, which is different so that the process of identifying the winning ticket numbers is conducted at least in one round, participation applications are lodged by simultaneously registering the data identifying the drawing lot participant, and the registration data of each person are embedded in the application for participation and the number assigned to the participant; the numbers are assigned to the participant based on the queue of received applications in real-time; the drawing takes place with regard to one of the tickets by means of a drawing device (lototron), adjusted to restrict the number of possible combinations of the numbered lotto balls drawn by the device on the following conditions: the total number of lotto balls shall be equal to the number of numerical placeholders in the total number of drawing tickets; the first and the next lotto balls constituting the winning number are restricted to the drawing of possible numerical combinations based on the number values that may secure the value of the drawing number within the size of the number matching the total number of drawing tickets.
2. The method to conduct a lottery in accordance with paragraph 1 different so that TV and internet or internet only are used as means of communication.

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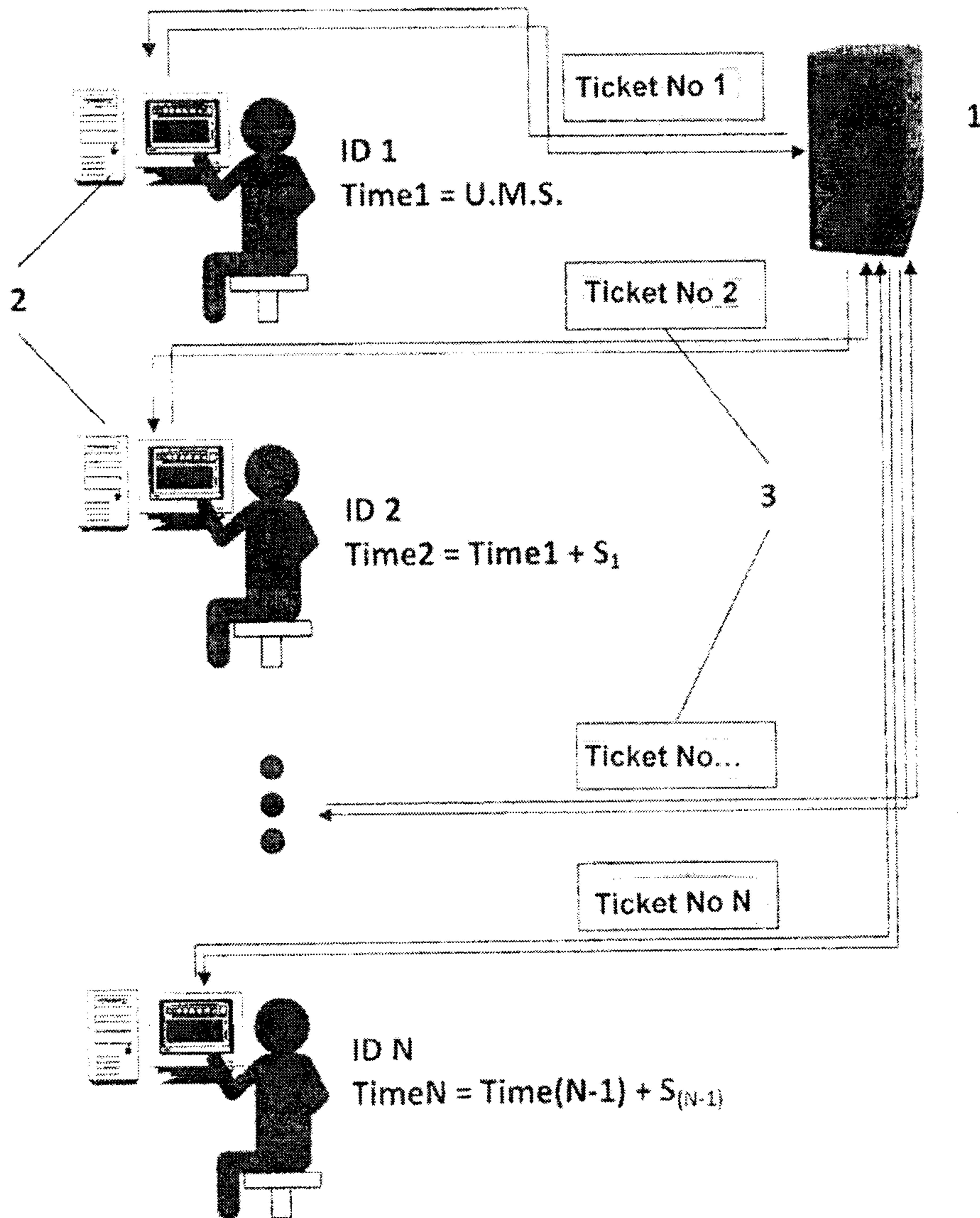


Fig. 1

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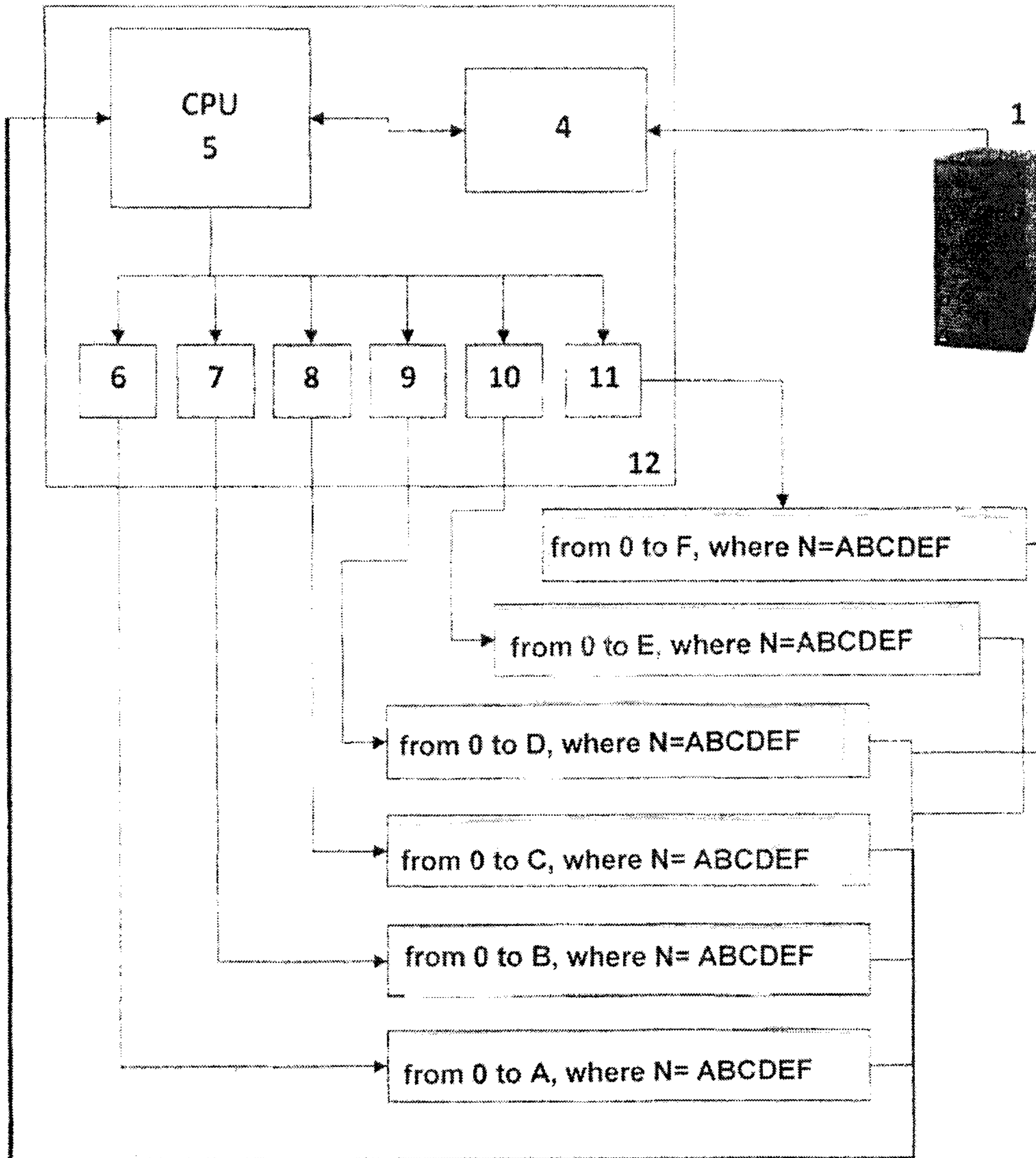


Fig. 2



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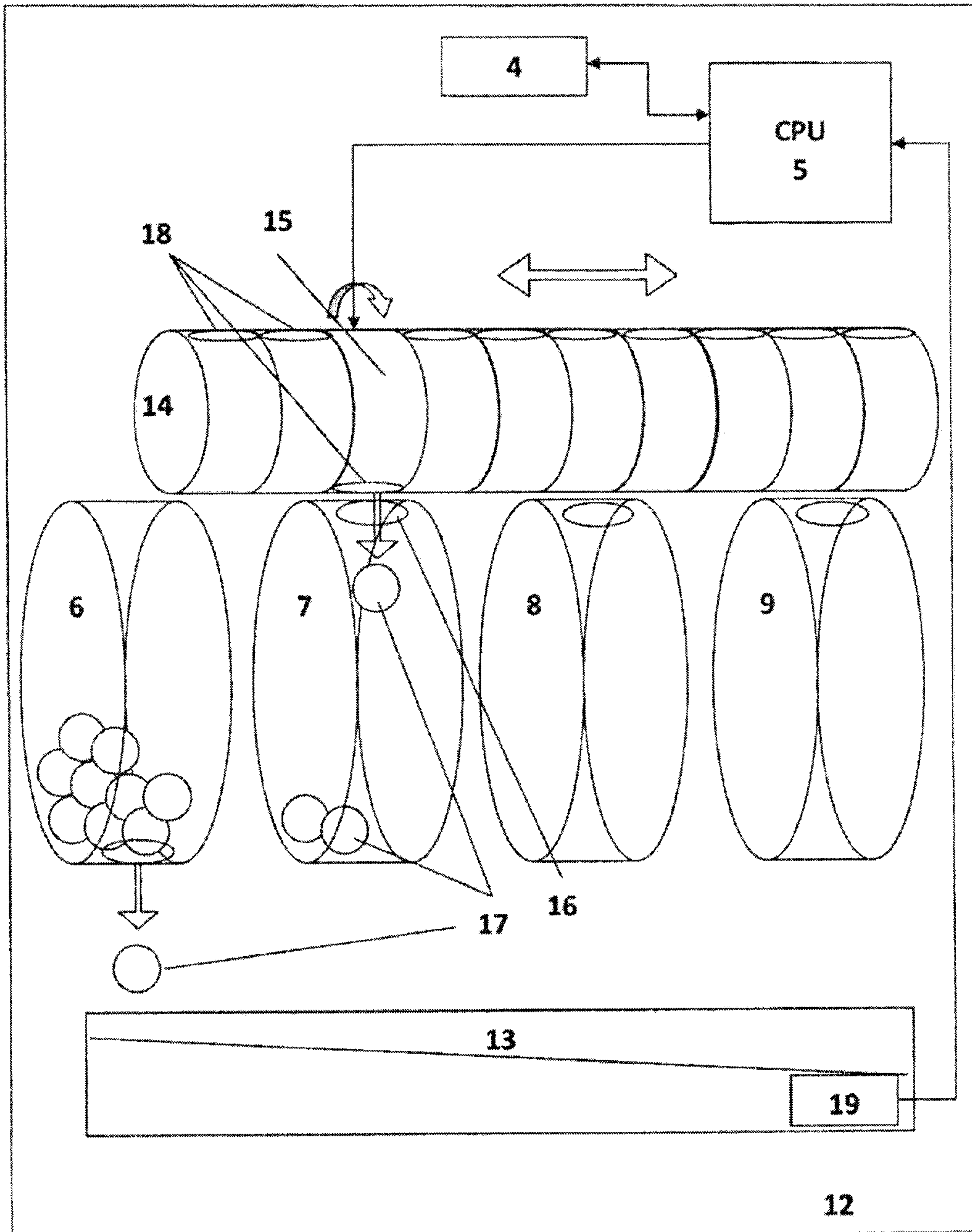


Fig.3

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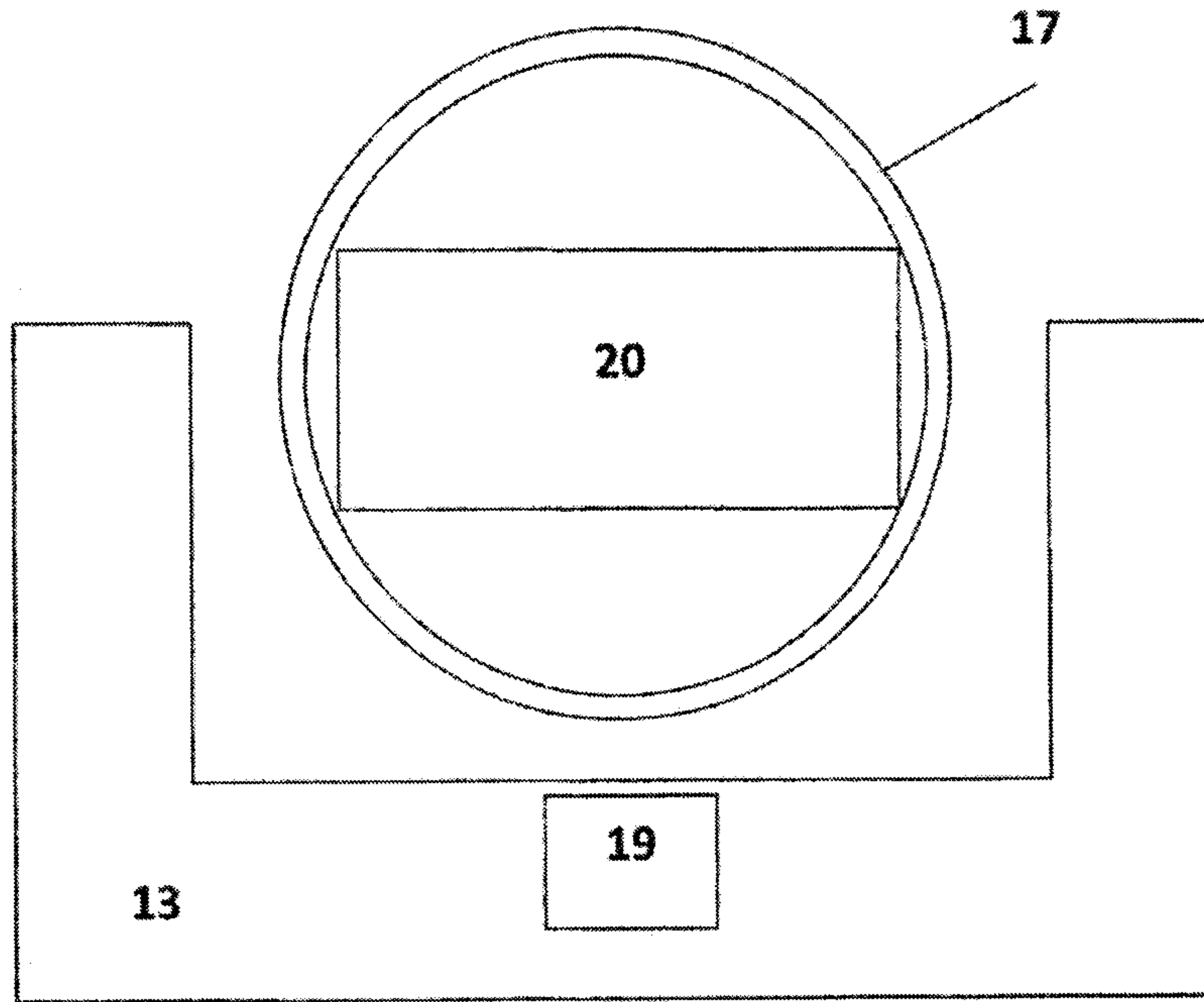
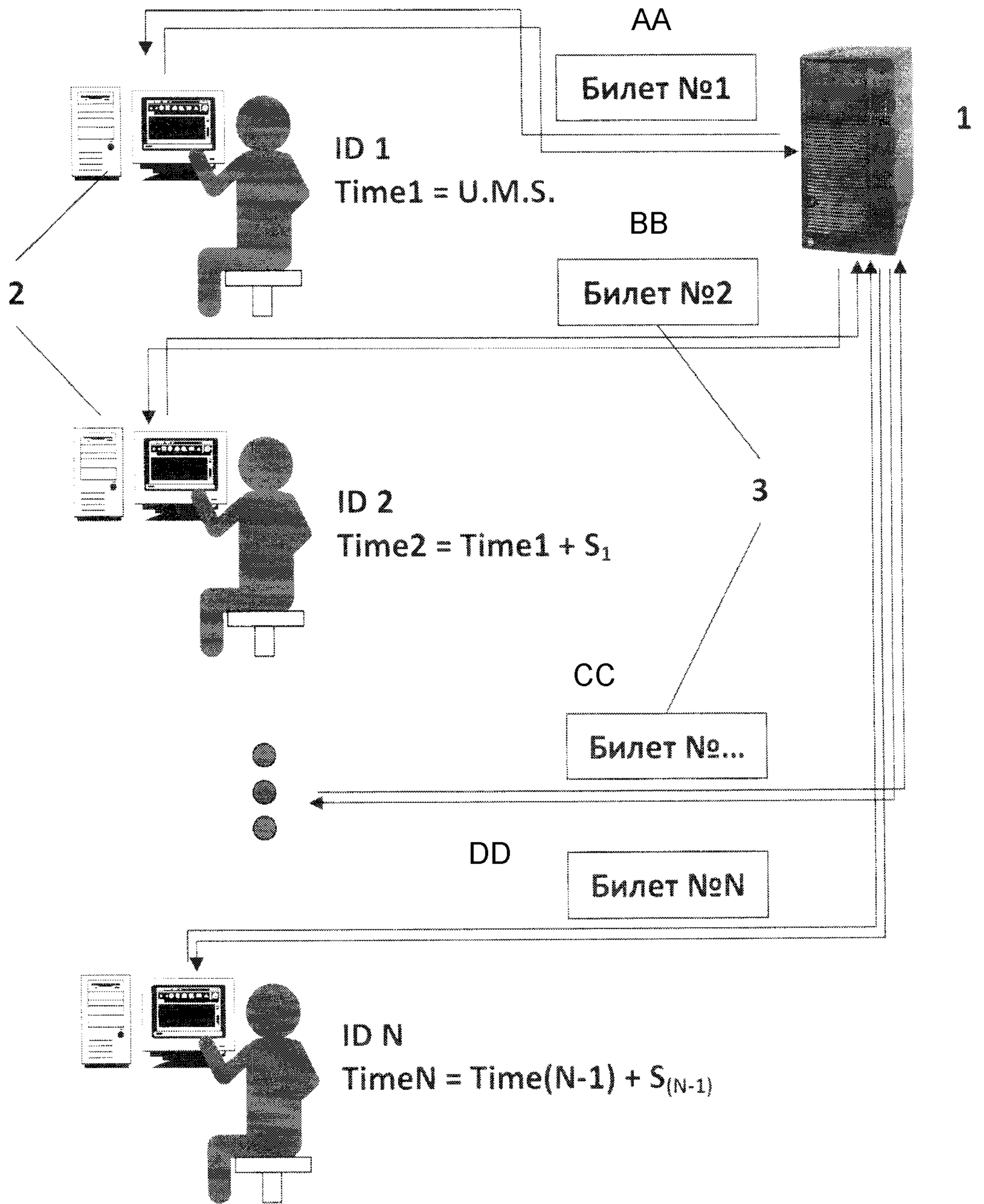


Fig.4



Фиг.1

- AA: Ticket Number 1
- BB: Ticket Number 2
- CC: Ticket Number...
- DD: Ticket Number N