



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>5</sup> :  G06F 15/20, 15/44	A1	(11) International Publication Number: WO 91/09369 (43) International Publication Date: 27 June 1991 (27.06.91)
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(21) International Application Number: PCT/US90/07484

(22) International Filing Date: 19 December 1990 (19.12.90)

(30) Priority data:  
453,991 19 December 1989 (19.12.89) US

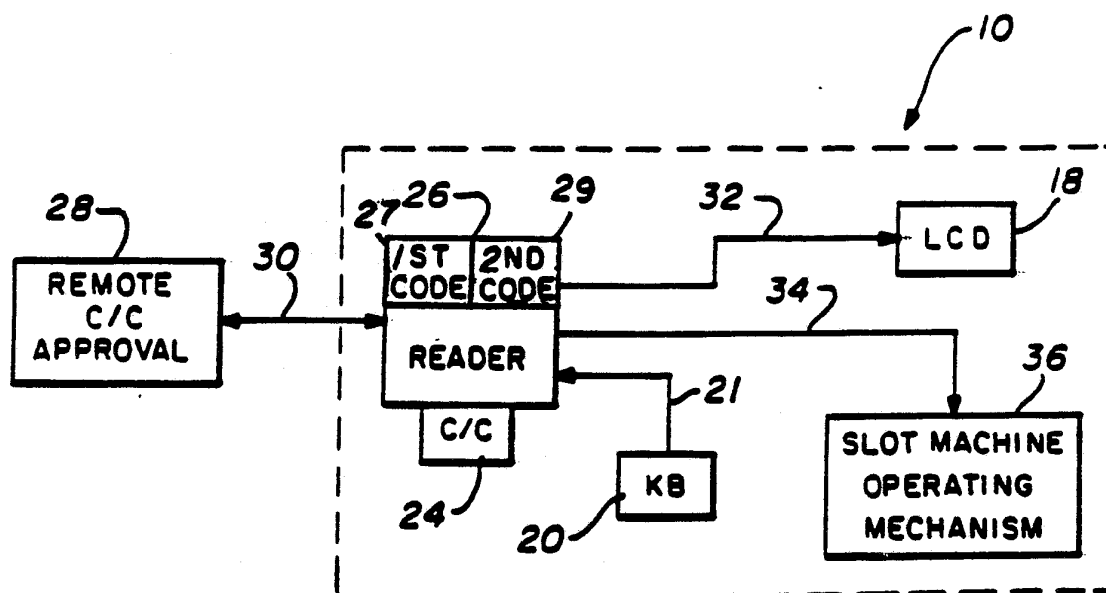
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(81) Designated States: AT (European patent), AU, BE (European patent), CA, CH (European patent), DE (European patent), DK (European patent), ES (European patent), FR (European patent), GB (European patent), GR (European patent), IT (European patent), JP, LU (European patent), NL (European patent), SE (European patent).

**Published***With international search report.**Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.*

(54) Title: APPARATUS AND METHOD FOR PROVIDING CREDIT FOR OPERATING A GAMING MACHINE



## (57) Abstract

The apparatus for enabling a gaming machine (10) in an establishment to provide credit to a player operating the machine without the player leaving the machine. The gaming machine has a card reader (26) associated with it for transmitting player related financial data to a remote location (28) for approval. A first code (27) identifies the particular gaming machine and a second code (29) identifies the establishment in which the gaming machine is located. A visual display (18) on the gaming machine indicates the amount of credit approved and usable by the player and enables the player operating the gaming machine to use the credit.

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**APPARATUS AND METHOD FOR PROVIDING  
CREDIT FOR OPERATING A GAMING MACHINE**

**TECHNICAL FIELD**

The present invention relates to gaming systems in general and in particular, to a method and apparatus for providing credit for operating a gaming machine such as, for example, a slot machine. A visual display, keyboard, and card reader are associated with the gaming machine to provide credit to the player upon approval of his credit card or by debiting his account with a debit card.

**BACKGROUND OF THE INVENTION**

It is well known that gambling casinos and other business establishments have a plurality of gaming machines, such as, for example only, slot machines in which a player can insert coins, pull a handle, and hope for a winning combination of elements on spinning reels, which allow him to obtain money from the machine. These machines are simply games of chance that some individuals play for entertainment and others play with the hope of receiving winnings.

Some casinos have cashiers located at strategic positions in the casino for use by patrons to obtain coins for use in playing the gaming machines. When a player is at a gaming machine and needs more coins, he must walk away from the machine, find a cashier and obtain more coins. This may give a player the opportunity to change his mind about playing the machine further. In addition, it may mean that the player will lose his place at the machine which may make it difficult for the player if he feels that the machine is about ready to "payoff". Further, sometimes a player feels that he is on a "roll" and does not want to interrupt the playing because of his winning streak. Thus, the present system disrupts the playing of the machine which is undesirable from the standpoint of the owner and may be undesirable from the standpoint of the player.

1     SUMMARY OF THE INVENTION

2             The present invention relates to a gaming machine, such  
3     as a slot machine, for use within a casino or other  
4     establishment to enable a player's participation at a  
5     particular machine such that the player can obtain further  
6     credit for playing the machine as needed without  
7     relinquishing his position at the machine.

8             In the preferred embodiment, each machine has associated  
9     therewith and forming part thereof a card reader, a visual  
10    display, and a keyboard entry pad. This enables a player,  
11    without leaving his position at the machine, to insert his  
12    debit card in a slot of the card reader forming part of the  
13    machine to automatically debit his account at a financial  
14    institution in the amount entered through the keyboard pad  
15    thereby giving the player a credit balance visually displayed  
16    which the player can "playoff" simply by continuing to  
17    operate the machine. In this embodiment, once the account  
18    has been debited and the visual display indicates the amount  
19    of credit obtained, the player uses the credit to continue to  
20    play without leaving his place at the machine.

21            In an alternate embodiment, the player, without giving  
22    up his position at the machine, inserts a credit card in the  
23    reader, enters the amount of credit desired and the P.I.N.  
24    number (personal identification number) of the player, has  
25    the credit card automatically checked for verification of the  
26    credit from a remote location, presses a keyboard "enter" key  
27    after the card has been approved and automatically obtains a  
28    credit balance that is indicated on the visual display.

29            The credit card can be used in various ways in  
30    conjunction with the gaming machine. In one embodiment, the  
31    machine issues a credit slip which is signed by the player  
32    for the amount of credit and retained by the casino or  
33    establishment to remit to the player's financial institution.  
34    In another embodiment, the credit card is simply swiped  
35    through the card reader groove and the dollar amount entered.  
36    The card reader includes a slot machine code to identify that  
37    particular machine, an establishment code to identify the

1 establishment and transmits that information along with any  
2 codes on the card to identify the player and the financial  
3 institution issuing the card. In that instance, the player's  
4 financial institution simply debits the player's account and  
5 credits the establishment's account for the dollar amount of  
6 credit obtained.

7

#### 8 **BRIEF DESCRIPTION OF THE DRAWING**

9 These and other objects of the present invention will be  
10 disclosed in conjunction with the accompanying drawings in  
11 which like numerals represent like elements and in which:

12 FIGURE 1 is an isometric view of a gaming machine, such  
13 as a slot machine, that incorporates the present invention  
14 and enables a player to obtain credit to play the machine  
15 with leaving the machine;

16 FIGURE 2 is a diagrammatic representation of the circuit  
17 means necessary for obtaining the credit and which forms part  
18 of the gaming machine;

19 FIGURE 3 is a diagrammatic representation of an  
20 alternate means for remotely communicating with the credit  
21 obtaining circuitry forming part of the gaming machine; and

22 FIGURE 4 is a flow chart illustrating the steps taken by  
23 the player to obtain credit at the machine without the player  
24 having to leave his place at the machine.

25

#### 26 **DETAILED DESCRIPTION**

27 Gambling casinos and gaming parlors include a variety of  
28 gaming machines such as slot machines, poker machines which  
29 actually play a card game, and other types. Some of these  
30 machines dispense coins as the player obtains a winning  
31 combination while in others credit is obtained and indicated  
32 on the machine. The player can use the credit to continue to  
33 play the machine or the credit can be converted to cash by a  
34 cashier in the casino. In such cases, a display of some  
35 type, such as a liquid crystal display, may indicate the  
36 credit available on that particular machine. However, when  
37 the credit has been used and none remains, the player must

1 then insert more coins. If that occurs, the player must  
2 leave his place at the machine, find a cashier and then  
3 obtain more coins with which to operate the machine. In such  
4 case, the player, when he returns to the machine, may find it  
5 occupied by another player. This may be particularly  
6 frustrating to a player if he believes that that particular  
7 machine is about ready to "payoff" or if he believes he is on  
8 a particular lucky streak with that machine.

9 The particular gaming machine 10 shown in FIGURE 1  
10 includes the present invention which enables the player to  
11 obtain credit without having to leave his place at the  
12 machine with the use of a financial card of the type such as  
13 any well known credit card or a debit card such as an ATM  
14 card. Other cards of the type having a prearranged amount of  
15 credit stored on the card may also be used. Each time such  
16 card is used, the amount of credit available is reduced by  
17 the amount of credit used until the credit is totally  
18 depleted. Such card is disclosed in U.S. Patent No.  
19 4,575,622. The machine 10 has indicators 14 which indicate  
20 to the player certain patterns or indicia. Particular  
21 combinations of these patterns are designated as winning  
22 combinations. The player inserts the coins in a slot such as  
23 a slot 19, activates the machine by pulling the handle 12,  
24 pushing buttons or taking some other action and observes the  
25 indicators in the displays 14 to determine if a winning  
26 combination is obtained. If so, the display 18 may indicate  
27 the amount won as a credit which the player may use to  
28 continue playing the machine without inserting additional  
29 coins. If the player wishes, he can elect to receive cash  
30 for the credit available and the appropriate value is  
31 obtained either by coins dropped or dispensed into a slot or  
32 tray 16 or the credit is redeemed from a cashier.

33 If the player has used all of his coins or credit he has  
34 won by playing the machine, the present invention enables him  
35 to obtain further credit without leaving the machine by  
36 inserting his financial card, either a credit card, a debit  
37 card or other available card 24 into slot 22. The card may

1 be swiped through a groove instead of being inserted in a  
2 slot, if desired. The amount of credit desired is entered  
3 through the keyboard 20. The reader 26 associated with the  
4 machine 10 transmits from the card the information concerning  
5 the player to a remote location such as, for example, the  
6 player's financial institution along with a first code 27  
7 identifying the gaming machine and, if necessary, a second  
8 code 29 identifying the establishment where the machine is  
9 located. The financial institution may then credit the  
10 establishment's account and debit the player's account in the  
11 amount entered into the keyboard. In an alternative system,  
12 the gaming machine 10 may issue a credit slip indicating the  
13 amount of credit obtained and which may be signed by the  
14 player, given to a casino employee and kept by the casino for  
15 return to the player's financial institution for proper  
16 credit. Of course the casino or establishment may be the  
17 financial institution in the sense that it can give pre-  
18 arranged credit to the player which can be utilized by the  
19 player through the means of a financial card used by the  
20 player, as described above.

21 As shown schematically in FIGURE 2, the gaming machine  
22 10 includes a card reader 26 having a slot or groove in which  
23 the card 24 is inserted as illustrated in FIGURE 1 or through  
24 which the card may be swiped. The reader 26 is coupled to a  
25 remote card approval financial institution 28 where it is  
26 determined if the card is entitled to the credit requested.  
27 Status of the card is returned over line 30 to reader 26  
28 where the status is coupled to the liquid crystal display 18  
29 on line 32. If the card is invalid, the display so  
30 indicates. If the card is acceptable for the amount of  
31 credit desired, the liquid crystal display 18 gives  
32 instructions to obtain the credit through the use of the  
33 keyboard 20. The information generated through the keyboard  
34 20 is coupled on line 21 to reader 26 which provides the  
35 necessary signals on line 24 to the gaming machine operating  
36 mechanism 36 to allow the player to use the credit by  
37 operating the gaming machine. As indicated earlier, the

1 gaming machine operating mechanism 36 is already in existence  
2 and is used by players where credit is accumulated from  
3 winnings on the machine and the player simply continues to  
4 play the machine using the available credit that has been  
5 previously won.

6 In this case, the credit approved by the remote  
7 financial institution is transferred to the machine and the  
8 machine operates in a well known manner to allow the player  
9 to continue to use the credit indicated. Thus with the novel  
10 invention forming part of the gaming machine as illustrated  
11 in FIGURE 1, the player does not need to leave the machine to  
12 obtain further credit, but simply inserts his card in slot  
13 22, enters the desired credit amount through keyboard 20 and  
14 when the remote institution has approved the credit, the  
15 machine indicates the amount of credit obtained and allows  
16 the player to continue to play the machine with the credit  
17 that he has obtained.

18 As stated previously, a card reading device may be used  
19 which allows the card to be swiped through a slot 22 where it  
20 is automatically read and the same procedure followed to  
21 obtain the credit. Where a debit card is used, it would not  
22 be necessary to sign any credit slip since the unique code  
23 identifying the establishment and the unique code identifying  
24 the gaming machine are transmitted to the remote institution  
25 along with the player's identification and the proper debits  
26 and credits take place automatically.

27 In order for the invention to be used with the machine  
28 shown in FIGURE 1, the necessary cabling must be connected to  
29 the machine and thus the machine has a fixed location and it  
30 cannot be moved without disconnecting all of the cables and  
31 reconnecting them at a new location. This means that the  
32 machines can be used only in fixed locations where the  
33 necessary cabling is available.

34 In order to make the machine portable, the invention may  
35 be modified as illustrated in FIGURE 3 which is a  
36 diagrammatic representation of an alternate version of the  
37 novel invention in which a transceiver 46 is associated with



1 the reader 26 shown in FIGURE 2. The machine 10, in this  
2 case, need not be located in any particular fixed location,  
3 but can be moved as necessary to any desired location. In  
4 such case, the incoming signals from the financial  
5 institution approving the card are coupled on line 30, which  
6 may be, for example, a telephone line, to an interface unit  
7 38 in the casino. The interface unit couples the incoming  
8 signals to transceiver 42 on line 40. Transceiver 42 sends  
9 the signals through the air into a corresponding transceiver  
10 46 in the gaming machine. The output of the transceiver is  
11 then coupled to reader 26 shown in FIGURE 2 and the system  
12 operates as described previously. A code unit 50 storing a  
13 unique code is associated with each transceiver 46  
14 identifying the particular gaming machine 10 that is to  
15 receive the signal. Thus only that particular gaming machine  
16 10 will be addressed from transceiver 42 when multiple gaming  
17 machines are being serviced in the same establishment. Such  
18 coding techniques are old and well known in the art. The  
19 unique codes may be assigned such that not only is the  
20 particular gaming machine 10 identified with its own code,  
21 but the establishment in which the machine is located may  
22 also be identified by a particular code 41 at transceiver 42,  
23 so that the remote financial institution approving the credit  
24 card has a record of not only the gambling institution, but  
25 also the particular gaming machine receiving the credit.

26 FIGURE 4 illustrates a flow chart of the operation of  
27 the reader 26 and associated circuits in the gaming machine  
28 10. The system is entered at 52 by the player observing the  
29 display at 59 which may indicate, for example only, "INSERT  
30 CREDIT CARD". At step 56, the card is inserted in slot 22 or  
31 swiped through a slot and the display is observed at step 58.  
32 The display may indicate, for example only, enter PIN number.  
33 At step 60 the player enters the PIN number through the  
34 keyboard and the display may indicate at 62 "ENTER CREDIT  
35 DESIRED". The player then enters the credit desired through  
36 the keyboard at step 62 and the display may indicate the  
37 amount entered and state "IF AMOUNT ENTERED IS CORRECT, PRESS

1 ENTER". That is indicated at step 66. At step 68, the  
2 player presses the enter key and the display, at step 70  
3 indicates the credit balance that was approved. As the  
4 machine is played the credit balance is reduced. Thus if  
5 \$10.00 is indicated as the credit obtained, and each play of  
6 the machine costs \$1.00, the credit balance as shown will  
7 decrease by \$1.00 each time the machine is played until the  
8 credit balance is zero or is altered by winnings obtained by  
9 the player. At step 72, the slot machine operating mechanism  
10 is activated so that the player can continue playing the  
11 machine. Actuators 17 enable the player to accept odds in a  
12 well-known manner. The player can select patterns diagonally  
13 or across or bet variable amounts of credit with each play  
14 with the use of the actuators 17 in a well-known manner.

15 Thus, there has been disclosed a novel apparatus and  
16 method of enabling a gaming machine to provide credit to a  
17 player operating the machine without leaving his place at the  
18 machine. He simply swipes his card through the reader and  
19 enters through the keyboard the amount of credit desired, and  
20 the financial institution at a remote distance from the  
21 machine approves or denies the credit which is indicated on  
22 the display on the machine itself. When the credit is  
23 obtained, the machine allows the player to use that credit in  
24 playing the machine without the player having to leave the  
25 machine to obtain the credit.

26 While the invention has been described in connection  
27 with a preferred embodiment, it is not intended to limit the  
28 scope of the invention to the particular form set forth but,  
29 on the contrary, it is intended to cover such alternatives,  
30 modifications, and equivalents as may be included within the  
31 spirit and scope of the invention as defined by the appended  
32 claims.

33

## Claims:

1 1. Apparatus for enabling an unattended gaming machine in  
2 an establishment having an account to provide playing credit  
3 to a player operating the machine from the player's existing  
4 credit account in a financial institution at a location  
5 remote from the establishment, said financial institution  
6 being different from the establishment, comprising:

7 an electronic circuit coupling the unattended  
8 machine to the remote financial institution having said  
9 player's account;

10 means for enabling said player to generate data  
11 representing the player's identity, a requested amount of  
12 playing credit to be charged to said player's account at said  
13 remote financial institution, and to cause generation of data  
14 regarding the establishment's identity;

15 means enabled by said player to automatically  
16 transmit said generated data through said electronic circuit  
17 to said remote financial institution for approval of said  
18 requested playing credit and transfer of said requested  
19 playing credit from said player's account to said  
20 establishment's account upon approval by said financial  
21 institution without requiring the player to leave his place  
22 at said unattended gaming machine;

23 means on said unattended machine for automatically  
24 receiving an indication of said approval of the requested  
25 amount of playing credit from said remote financial  
26 institution through said electronic circuit; and

27 means coupled to said indication means for  
28 automatically enabling the player to use the approved playing  
29 credit to operate the unattended gaming machine.

1 2. Apparatus as in claim 1 wherein the means for enabling  
2 the player to generate data comprises:

3 a credit card reader as part of the gaming machine  
4 and coupled to said remote financial institution through said  
5 electronic circuit for enabling a credit card to be used

6 solely by the player to request credit for the player to  
7 operate said gaming machine; and  
8 an alphanumeric keyboard on the gaming machine and  
9 coupled to the remote institution through said electronic  
10 circuit for entering the amount of credit requested by the  
11 player.

1 3. Apparatus as in claim 2 wherein the indication means is  
2 a liquid crystal display.

1 4. Apparatus as in claim 2 further comprising:  
2 a source of a code identifying the establishment  
3 where the gaming machine is established, said code being  
4 associated with said card reader such that when said  
5 generated data is automatically transmitted through said  
6 electronic circuit to said remote financial institution, said  
7 code identifying said establishment is also transmitted to  
8 said remote financial institution.

1 5. Apparatus as in claim 2 further comprising:  
2 a first transceiver located in the establishment  
3 and coupled to said remote financial institution; and  
4 a second transceiver forming a part of the gaming  
5 machine and coupled to the card reader and the alphanumeric  
6 keyboard for transmitting said generated data representing  
7 the player's identity and the amount of requested credit by  
8 wireless transmission signals to and receiving wireless  
9 transmission signals representing said approval of the  
10 requested amount from the first transceiver approving or  
11 disapproving the player's requested credit so that the gaming  
12 machine is portable and may be moved from any one location to  
13 another desired location within the establishment.

1 6. Apparatus as in claim 5 further comprising:  
2 a first coding unit associated with the first  
3 transceiver for establishing a first unique code identifying  
4 the establishment in which the gaming machine is located; and

5           a second coding unit associated with the second  
6 transceiver for storing, recognizing and transmitting by  
7 wireless transmission to the first transceiver a second  
8 unique code identifying the particular gaming machine such  
9 that the first transceiver, in receiving said wireless  
10 information from said second transceiver, transmits both  
11 codes and said player generated data to the financial  
12 institution and when transmitting wireless information to the  
13 gaming machine, said second transceiver transmits said second  
14 unique code that is recognized only by the gaming machine  
15 requesting credit with the player's financial card that has  
16 stored said second code.

1   7.   A method of enabling an unattended gaming machine in an  
2 establishment, having an account, to provide playing credit  
3 to a player operating the machine from the player's credit  
4 account existing in a financial institution at a location  
5 remote from the establishment, said financial institution  
6 being different from the establishment, comprising the steps  
7 of:

8           coupling the unattended machine to the remote  
9 financial institution having said player's existing account  
10 with an electronic circuit;

11           enabling said player to generate data representing  
12 the player's identity and a requested amount of playing  
13 credit to be charged to said player's account at said remote  
14 financial institution and to cause generation of data  
15 regarding the establishment's identity;

16           automatically transmitting said generated data  
17 through said electronic circuit to said remote financial  
18 institution for approval of the requested amount and transfer  
19 of said requested credit from said player's account to said  
20 establishment's account upon approval by said financial  
21 institution at the request of said player and without  
22 requiring the player to leave his place at said unattended  
23 gaming machine;

24           automatically receiving at said unattended machine

25 an indication of said approval of the requested amount of  
26 playing credit from said remote financial institution through  
27 said electronic circuit; and  
28 automatically enabling the player to use the  
29 approved playing credit to operate the unattended gaming  
30 machine.

1 8. A method as in claim 7 wherein the step of enabling the  
2 player to generate data comprises the steps of:  
3 forming a credit card reader as part of the gaming  
4 machine;  
5 coupling the card reader to said remote financial  
6 institution through said electronic circuit for enabling a  
7 credit card to be used solely by the player to request said  
8 credit for the player;  
9 generating signals representing the amount of  
10 credit requested by the player with an alphanumeric keyboard  
11 on the gaming machine; and  
12 coupling the generated signals to the remote  
13 institution for approval through said electronic circuit.

1 9. A method as in claim 8 comprising the step of using a  
2 liquid crystal display to display said received indication.

1 10. A method as in claim 8 further comprising the steps of:  
2 identifying the establishment where the gaming  
3 machine is located with a code; and  
4 associating said code with said card reader such  
5 that when said generated data is automatically transmitted  
6 through said electronic circuit to said remote financial  
7 institution, said code identifying said establishment is also  
8 transmitted to said remote financial institution.

1 11. A method as in claim 8 further comprising the steps of:  
2 locating a first transceiver in the establishment;  
3 coupling the first transceiver to said remote  
4 financial institution through said electronic circuit;

5            locating a second transceiver within the gaming  
6 machine; and  
7            coupling said second transceiver to said card  
8 reader and said alphanumeric keyboard for transmitting said  
9 generated data representing the player's identity and the  
10 amount of requested credit by wireless signals to and  
11 receiving wireless transmission signals representing said  
12 approval of the requested amount from the first transceiver  
13 approving or disapproving the player's requested credit so  
14 that the gaming machine is portable and may be moved from any  
15 one location to any other desired location within the  
16 establishment.

1    12. A method as in claim 11 further comprising the steps of:  
2            assigning a first unique code to the first  
3 transceiver for identifying the establishment in which the  
4 particular gaming machine is located;  
5            assigning a second unique code to the second  
6 transceiver for identifying the associated gaming machine  
7 such that said second code is transmitted to said first  
8 transceiver as part of said generated data;  
9            transmitting both the establishment code and the  
10 gaming machine code to the remote financial institution with  
11 said first transceiver as part of said generated data;  
12            receiving data representing credit approval at said  
13 first transceiver from the remote financial institution;  
14            transmitting by wireless signal from said first  
15 transceiver the received data representing the approved  
16 credit along with said second unique code;  
17            receiving said credit approval data and said second  
18 unique code in said gaming machine; and  
19            recognizing said second code only by said gaming  
20 machine requesting credit with the player's financial card  
21 that is identified by said second code.

1    13. Apparatus for enabling an unattended gaming machine in  
2 an establishment, having an account, to provide credit to a

3 player operating the machine from the player's existing  
4 credit account in a financial institution at a location  
5 remote from the establishment, said financial institution  
6 being different from the establishment, comprising:

7 means coupled to said unattended gaming machine for  
8 establishing a code identifying the establishment in which  
9 the unattended gaming machine is located;

10 means forming part of the unattended gaming machine  
11 to enable said player to generate data representing the  
12 player's identity and a requested amount of credit to be  
13 provided by said player's account at said remote financial  
14 institution;

15 means associated with said unattended gaming  
16 machine to automatically transmit said generated data and  
17 said establishment identifying code to said remote financial  
18 institution for approval of said requested amount of credit  
19 and transferring of the requested amount of credit from the  
20 player's existing account to the establishment's account  
21 without requiring the player to leave his place at said  
22 unattended gaming machine upon approval by said financial  
23 institution;

24 means coupled to said unattended machine for  
25 receiving and displaying data from said remote financial  
26 institution representing the credit approved; and

27 means coupled to the data receiving and displaying  
28 means for enabling said player to use the displayed credit to  
29 operate the gaming machine.



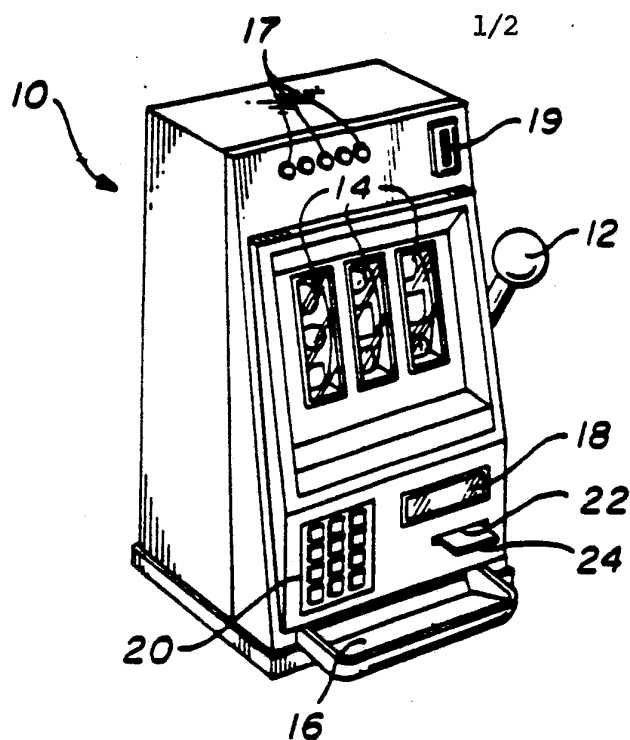


FIG. 1

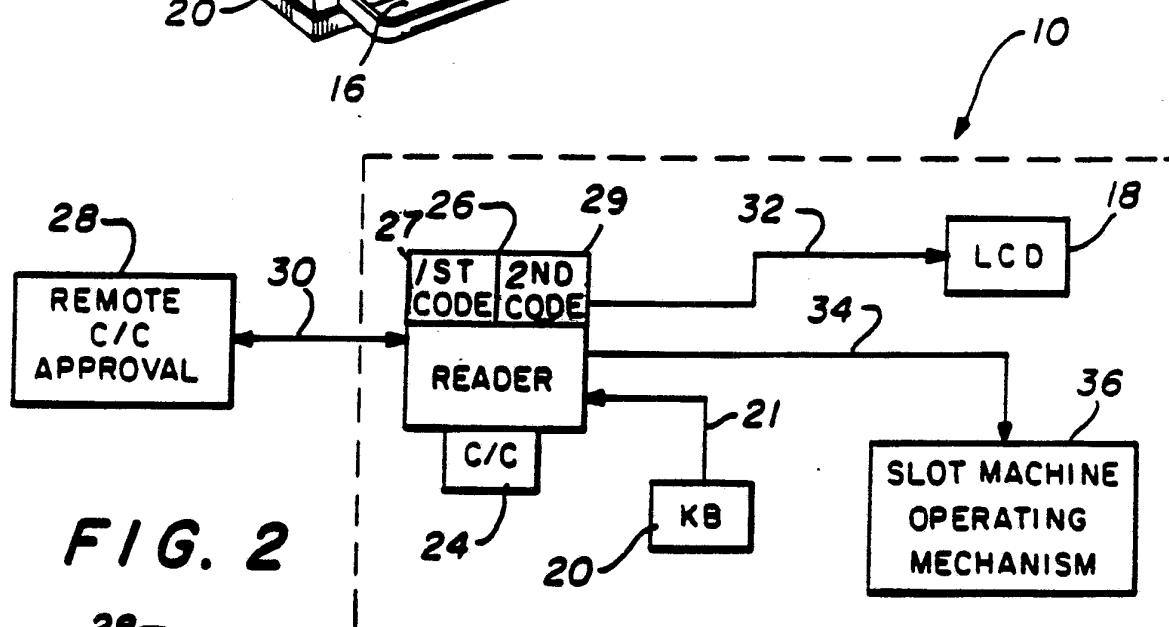


FIG. 2

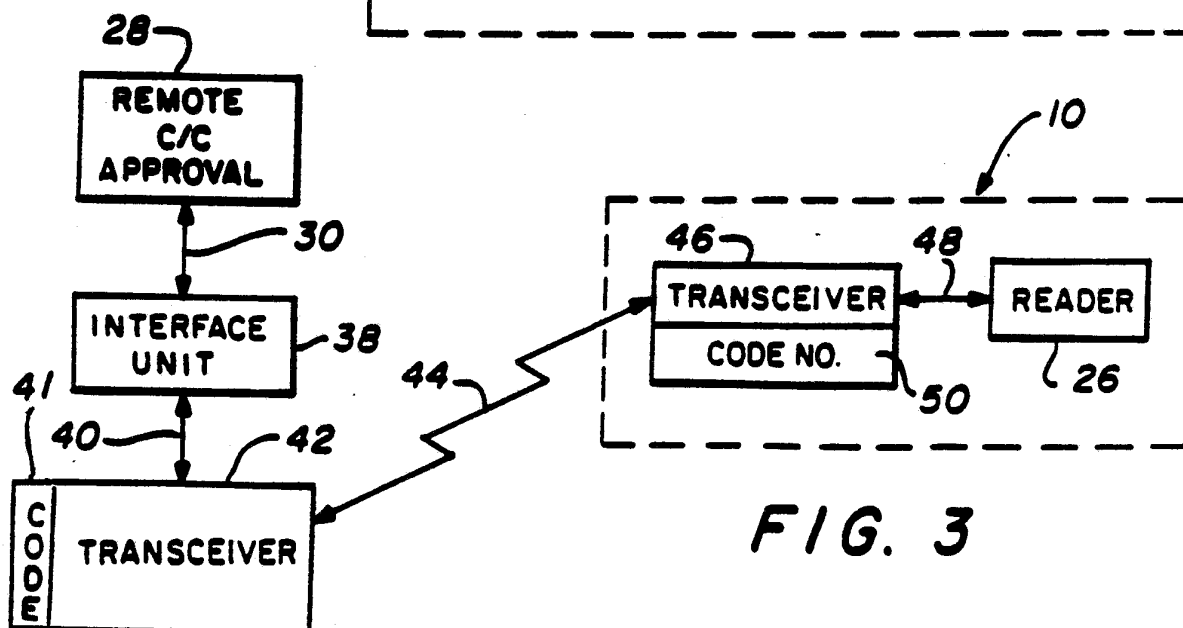


FIG. 3

2/2

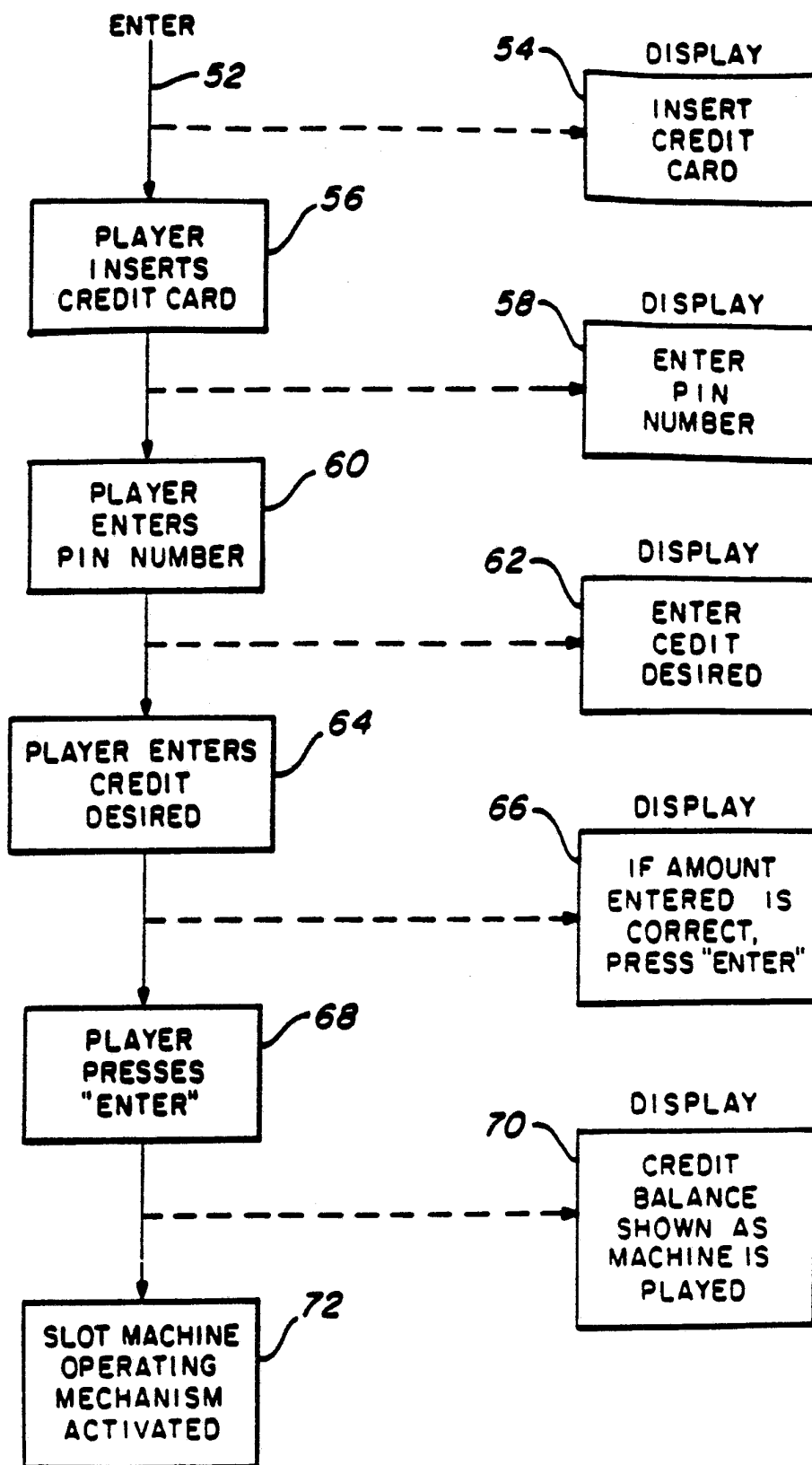
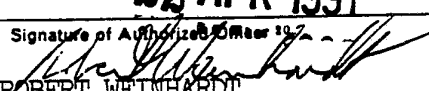


FIG. 4

# INTERNATIONAL SEARCH REPORT

International Application No. **PCT/US90/07484**

<b>I. CLASSIFICATION OF SUBJECT MATTER</b> (If several classification symbols apply, indicate all) <sup>1</sup>		
According to International Patent Classification (IPC) or to both National Classification and IPC IPC(5): <b>G06F 15/20, 15/44</b> U.S. CL.: <b>235/380, 375</b>		
<b>II. FIELDS SEARCHED</b>		
Minimum Documentation Searched <sup>4</sup>		
Classification System	Classification Symbols	
U.S.	235/375, 379, 380, 381, 382, 383; 902/22, 23, 32 364/410, 412, 408 273/138A, 138R; 340/825.31, 825.33, 825.34, 825.35	
Documentation Searched other than Minimum Documentation to the Extent that such Documents are Included in the Fields Searched <sup>5</sup>		
<b>III. DOCUMENTS CONSIDERED TO BE RELEVANT</b> <sup>1*</sup>		
Category <sup>2</sup>	Citation of Document, <sup>1*</sup> with indication, where appropriate, of the relevant passages <sup>1*</sup>	Relevant to Claim No. <sup>1*</sup>
A	US, A, 4,457,424 (HEDGES ET AL.) 21 August 1984, See the abstract and Figs. 2, 4, 8 and 11.	1-13
A	US, A, 4,652,998 (KOZA ET AL.) 24 March 1987, See the abstract and Col. 3 Lines 40-55.	1-13
A	US, A, 4,689,742 (TROY ET AL.) 25 August 1987, See the abstract, Fig. 1 and Col. 4 Line 63 to Col. 5 Line 22.	1-13
A	US, A, 4,575,622 (PELLEGRINI) 11 March 1986, See the abstract.	1-13
A	US, A, 4,335,809 (WAIN) 22 June 1982, See Col. 3 Lines 17-35 and Col. 4 Lines 30-38.	5-6, 11-12
A	US, A, 4,636,951 (HARLICK) 13 January 1987, See the abstract and Figs. 1-2.	1-13
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><sup>*</sup> Special categories of cited documents: <sup>1*</sup></p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&amp;" document member of the same patent family</p> </div> </div>		
<b>IV. CERTIFICATION</b>		
Date of the Actual Completion of the International Search <sup>3</sup>		Date of Mailing of this International Search Report <sup>3</sup>
12 MARCH 1991		22 APR 1991
International Searching Authority <sup>1</sup>		Signature of Authorized Officer <sup>1*</sup>
ISA/US		 ROBERT WEINHARDT