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(54) Title: METHOD AND SYSTEM FOR ADVERTISING

(57) Abstract:

METHOD AND SYSTEM FOR ADVERTISING

TECHNICAL FIELD

The described technology relates in general to advertising and, more particularly, to displaying advertisements while a user interacts with a computer program.

BACKGROUND

Because it facilitates electronic communications between vendors and purchasers, the Internet is increasingly being used to conduct "electronic commerce." The Internet comprises a vast number of computers and computer networks that are interconnected through communication channels. Electronic commerce refers generally to commercial transactions that are at least partially conducted using the computer systems of the parties to the transactions. For example, a purchaser can use a personal computer to connect via the Internet to a vendor's computer. The purchaser can then interact with the vendor's computer to conduct the transaction. The World Wide Web portion of the Internet is especially conducive to conducting electronic commerce. Many web servers have been developed through which vendors can advertise and sell product through a web site. The products can include items (*e.g.*, music) that are delivered electronically to the purchaser over the Internet and items (*e.g.*, books) that are delivered through conventional distribution channels (*e.g.*, a common carrier). A server computer system may provide an electronic version of a catalog that lists the items that are available. A user, who is a potential purchaser, may browse through the catalog using a browser and select various items that are

to be purchased. When the user has completed selecting the items to be purchased, the server computer system then prompts the user for information to complete the ordering of the items. This order information may include the purchaser's name, the purchaser's credit card number, and a shipping address for the order. The server computer system then typically confirms the order by sending a confirming web page to the client computer system and schedules shipment of the items.

The profitability of an e-commerce web site depends in large part on the number of users who visit that web site. To encourage users to visit a web site, the web site may be advertised extensively. The web site may be advertised through traditional media, such as television, radio, and newspaper. The web site may also be advertised on web pages (*e.g.*, via banner ads) generated by another web site. An advertiser may pay a displaying web site that displays their advertisement a certain amount each time that a user accesses a web page of the displaying web site that includes the advertisement. In addition, the advertiser may pay the displaying web site an additional amount each time a user clicks through the advertisement to access a web page of the advertised web site. Finally, the advertiser may pay the displaying web site a referral fee that is a percentage of the price of a purchase that resulted from the click through.

The displaying of advertisements can be very lucrative for a displaying web site. Indeed, some organizations may even pay users to browse the web while advertisements are displayed on a portion of user's display device. These organizations may collect demographic or other information about users so that the advertisements that are appropriate for each user can be selected. The organization may be compensated for each advertisement displayed, for each advertisement that is clicked through, and for each resulting transaction. Such organizations may also encourage users

to refer friends and family to sign up with the organization. The referring user may be paid additional amounts if their referred friends and family browse the web while the organizations advertisements are displayed.

The compensation that a web site may receive for displaying an advertisement may be based in part on the perceived appropriateness of the advertisement to the user. For example, an advertisement for an automotive web site may not be appropriate for a ten-year old, but may be appropriate for a 21-year old. The advertisement for the automotive web site may be particularly appropriate to a 21-year old who has just purchased an automobile. Thus, an advertiser would be willing to pay more for advertisement whose appropriateness can be evaluated. Thus, to increase their revenues, organizations collect extensive information about users so that more appropriate advertisements can be presented to the users. The organizations may collect personal data such as age, occupation, gender, income, address, preferences, and shopping habits. These organizations may track the identity of a user using a sign on identification or a cookie stored on the user's computer. This information is so important that some organizations provide incentives (*e.g.*, cash) for users to provide the information, which is then sold to other organizations.

Some web sites offer games (*e.g.*, poker) that users can play to encourage users to visit the web site. As the users play the games, advertisements are displayed. Such gaming web sites may offer substantial prizes to encourage users to play the games and to provide personal information. These gaming web sites may even offer prizes to encourage users to click through the advertisements so that the gaming web site will receive a referral fee. Such gaming web sites can, of course, only be used while a user's computer is connected to the Internet.

It would be desirable to have a technique in which advertisements could be presented to a computer user even while the computer is not connected to the Internet.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a block illustrating the display of advertisements while a game is being played.

Figure 2 is a block diagram illustrating the guiding of the user by an advertising server to web sites represented by selected advertisements.

Figure 3 is a block diagram illustrating components used to implement the advertisement system in one embodiment.

Figure 4 is a flow diagram illustrating the processing of the game program in one embodiment.

Figure 5 is a flow diagram illustrating the processing of the launch advertisement window routine.

Figure 6 is a flow diagram illustrating the processing of the display advertisement routine in one embodiment.

Figure 7 is a flow diagram illustrating the processing of routine that is invoked when an advertisement is selected.

DETAILED DESCRIPTION

A method and system for displaying advertisements while a user interacts with a computer program is provided. In one embodiment, the advertisement system downloads a collection of advertisements along with a computer game from an advertising server onto a user's computer system. When the user launches (*i.e.*, starts the execution of) the computer game at the user's computer system, the advertisement system selects various advertisements from the collection of advertisements and displays the

selected advertisements. Thus, the advertisements are displayed while the user plays the computer game that is executing on the user's computer. The advertisement system may change the displayed advertisements while the user plays the computer game. The advertisements may be selected randomly, selected based on user-specified preferences (*e.g.*, to view advertisements related to automobiles), selected based on known characteristics (*e.g.*, gender) of the user, or selected based on another criterion. For example, the advertisements may be selected based on the type of computer program with which the user is interacting or the particular capability of the computer program that is currently being used by the user. By downloading the collection of advertisements and the computer game, the user is able to play the computer game and view the advertisements without interacting with the advertising server or any other computer system. Thus, the advertisements can be displayed to the user even when the user's computer is not connected to the Internet.

In one embodiment, the user may select a displayed advertisement to indicate that the user would like to receive more information about the advertisement. The advertisement system tracks the user's selection of the advertisements. When the user's computer is subsequently connected to the advertising server via the Internet or any of the communications mechanisms, the advertisement system uploads the tracked selection of advertisements to the advertising server. The advertising server may then take the user on a tour of the web sites associated with the selected advertisements so that the user can view more detailed information relating to the advertisement. The advertising server may provide an incentive to the user to actually take the tour.

The advertisement system may provide an incentive (*e.g.*, by providing a reward) for a user to play the game and view the advertisements. The user may be rewarded based upon the amount of time that the user

spends playing the game. For example, the user may be paid \$.50 per hour for playing the game and viewing advertisements. Users may also be rewarded based upon the speed at which they complete their games. For example, a user who completes the game within the certain time period may receive an increased reward. The user may also be rewarded based upon the user's performance in comparison with other players. For example, a user who has one of the 10 highest scores or one of the longest winning streaks may receive an increased reward. As another example, rewards may be given as a "booby prize." The rewards may include entry into a sweepstakes and free access to useful information (*e.g.*, sports scores, trivia games, entertainment, news headlines, and so on). Additional rewards may be given when the user satisfies certain conditions, such as providing their demographic information (*e.g.*, gender, age, education level, hobbies, and interests). Various techniques for providing rewards to users are described in U.S. patent application number _____ (Attorney Reference No. 33601.8002US2), entitled "Method and System for Allocating and Redeeming Tokens," filed on February 14, 2001 which is hereby incorporated by reference. That reference describes that tokens, which can be exchanged for items of value, are allocated to users to provide an incentive to engage in certain activity.

Figure 1 is a block illustrating the display of advertisements while a game is being played. The display 100 displays a game area 101 and advertisement areas 102. The game area may be a window through which the user interface of the game is provided. The game may be any game that can be played on a computer system. For example, the game may be a card game (*e.g.*, solitaire), a lottery game, a gambling-type game (*e.g.*, roulette), Freecell, and so on. More generally, any type of computer program may be provided as a means of encouraging a user to use the computer and view the advertisements. For example, the computer program may be financial

planning software or entertainment software, such as a program that displays a DVD movie. As discussed above, the computer program can be downloaded from the advertising server. Alternatively, the computer program can be one that is already stored on the user's computer. The advertisement system selects which advertisements should be displayed in the advertisement areas. The advertisement system may periodically replace the advertisements in the advertisement areas with new advertisements. A user may indicate an interest in receiving more information about an the advertisement by selecting (*e.g.*, clicking with a mouse) the advertisement area in which the advertisement is currently displayed. The advertisement system in one embodiment may have more detailed information about the advertisement stored at the user's computer. When the user selects an advertisement area, the advertisement system may display the more detailed information even though the computer is not currently connected to the Internet. The advertisement system may track the advertisements that are displayed to the user and may track those advertisements that are selected by the user. The advertising server may use the information about selected advertisements to provide more information to the user when the user eventually connects to the Internet. One skilled in the art would appreciate that the advertisement areas could be of any size, shape, location, time and number. Also, the advertisement area may contain advertisements only part of the time while the game is being played.

Figure 2 is a block diagram illustrating the guiding of the user by an advertising server to web sites represented by selected advertisements. After a user connects to the Internet, the advertisement system uploads statistics about the game playing of the user to the advertising server. The advertising server can allocate tokens to the user as a reward and can allow the user to redeem the tokens. The advertising server provides an enhanced reward if the user tours web sites associated with the advertisements that

were displayed while the game was played. The display 200 displays a browser window. The browser window indicates that the user selected advertisements 201 while playing the game. The user can select button 202 to start a tour of the web sites corresponding to the selected advertisements to review the additional information. Once the user selects the tour button, the advertising server coordinates the display of the web site associated with the first advertisement followed by the display of the web site associated with the second advertisement, and so on.

Figure 3 is a block diagram illustrating components used to implement the advertisement system in one embodiment. The client computers 310 and the advertising server computer 320 are interconnected via the Internet 330. The computers may include a central processing unit, memory, input devices (*e.g.*, keyboard and pointing devices), output devices (*e.g.*, display devices), and storage devices (*e.g.*, disk drives). The memory and storage devices are computer-readable media that may contain instructions that implement the advertisement system. In addition, the data structures and message structures may be stored or transmitted via a data transmission medium, such as a signal on a communications link. Various communications channels other than the Internet may be used, such as a local area network, a wide area network, or a point-to-point dial-up connection. Client 310 includes a browser 311, a game program 312, an advertisement database 313, a download/ upload program 314, and a statistics database 315. The game program includes a game component for conducting the game and an advertisement component for coordinating the display of advertisements. The advertisement component selects the advertisements from the advertisement database and controls the display of the advertisements. The advertisement component may also update the statistics in the statistics database to indicate which advertisements were displayed to the user, which advertisements were selected by the user, the length of time that an

advertisement was displayed, and so on. The advertisement component may also execute as a program that is independent of the game program. The download/upload program controls of the downloading of advertisements from an advertising server and the uploading of statistics to the advertising server. The advertising server 320 includes a server engine 321, the game program 322, an download/upload program 323, a game database 324, a user database 325, and an advertisement database 326. The server engine receives HTTP requests and coordinates the sending of the HTTP response messages. The server engine may download any game program and the download/upload program to client computers when requested to do so using a web page provided by the advertising server. The statistic database contains statistical information about the advertisements that have been displayed to the users at the client computers. The user database contains information relating to each user who is registered to use the advertisement system. The advertisement database contains a collection of advertisements that are available to be downloaded to client computers for display.

Figure 4 is a flow diagram illustrating the processing of the game program in one embodiment. In this embodiment, the game program incorporates the functionality of a playing the game and displaying the advertisements. In an alternate embodiment, the functionality of displaying the advertisements may be implemented in a program that is separate from the game playing program. In block 401, the game program launches the advertisement windows by invoking the routine illustrated in Figure 5. This launching includes the creation of the windows in which the advertisements will be displayed and the displaying of the initial advertisements in the created windows. In block 402, the game program conducts the game.

Figure 5 is a flow diagram illustrating the processing of the launch advertisement window routine. This routine creates a window for each advertisement area and displays an initial advertisement in the created

windows. In block 501, the routine selects the next advertisements area. In decision block 502, if all the advertisement areas have already been selected, then the routine returns, else the routine continues at block 503. In block 503, the routine creates a new advertisement window. In block 504, the routine displays an advertisement in the created window and loops to block 501 to select the next advertisement area.

Figure 6 is a flow diagram illustrating the processing of the display advertisement routine in one embodiment. This routine selects an advertisement and displays it in an advertisement area. In block 601, the routine opens the advertisement database. In block 602, the routine randomly selects an advertisement from the advertisement database. The advertisements that are stored on the user's computer may have been custom selected by the advertising server based on the characteristics (*e.g.*, age, gender, occupation, and education) of the user. Alternatively, if the stored advertisements have not already been custom selected, then the custom selection can be performed by the user's computer, rather than randomly selecting an advertisement. In block 603, the routine displays the selected advertisement in an advertisement window. In block 604, the routine updates the statistics database to indicate the display of the selected advertisement and returns.

Figure 7 is a flow diagram illustrating the processing of routine that is invoked when an advertisement is selected. In block 701, the routine updates the statistics database to indicate that the user has selected the advertisement. In block 702, the routine displays a new advertisement in the selected advertisement area and returns.

From the foregoing it will be appreciated that although specific embodiment of the technology have been described herein for purposes of illustration, various modifications may be made without deviating from the spirit and scope of the invention. For example, the user may be able to

redeem tokens that have been allocated to the user at a redemption server that is separate from the advertising server. Also, the advertisement system may email statistics to the advertising server rather than or in addition to uploading the statistics when connected to the Internet. The advertisement system may output a selected advertisement in ways other than displaying advertisements on a display. For example, an advertisement may be output in an audio form. The technology can be used with personal computers, set top boxes, telephones, cell phones, video game devices, personal digital assistants, and so on. Accordingly, the invention is not limited except by the appended claims.

CLAIMS

1 1. A method in a computer for outputting advertisements
2 while a user interacts with a computer program executing at the computer,
3 the method comprising:
4 providing a collection of advertisements at the computer;
5 starting execution of the computer program on the computer;
6 and
7 during execution of the computer program on the computer,
8 selecting an advertisement from the provided
9 collection of advertisements; and
10 outputting the selected advertisement so that the
11 user perceives the selected advertisement while interacting with the computer
12 program.

1 2. The method of claim 1 including providing additional
2 advertisements to the computer.

1 3. The method of claims 1-2 including:
2 during execution of the computer program on the computer,
3 selecting another advertisement from the
4 provided collection of advertisements; and
5 outputting the selected other advertisement.

1 4. The method of claim 3 including storing indications of
2 the output advertisements.

1 5. The method of claim 4 including sending to a server
2 computer the stored indications.

1 6. The method of claims 1-5 including:
2 receiving from the user a selection of an output advertisement;
3 and
4 storing an indication that the user selected the output
5 advertisement.

1 7. The method of claim 6 including sending to a server
2 computer the stored indication.

1 8. The method of claims 1-7 wherein the selection of the
2 advertisement is based on a characteristic of the user.

1 9. The method of claims 1-8 wherein the provided
2 collection is based on a characteristic of the user.

1 10. The method of claims 1-9 wherein the computer
2 program is a game and including collecting statistics relating to the game.

1 11. The method of claim 10 including sending the collected
2 statistics to a server computer.

1 12. The method of claims 1-11 wherein the computer
2 program does not interact with another computer during its execution.

1 13. The method of claims 1-12 wherein the execution of the
2 computer program and the selecting of the advertisement are independent of
3 a server computer.

1 14. The method of claims 1-13 wherein the collection of
2 advertisements is provided by a server computer.

1 15. The method of claims 1-14 wherein the selecting and
2 outputting are under control of the executing computer program.

1 16. The method of claims 1-14 wherein the selecting and
2 outputting are under control of another executing computer program.

1 17. The method of claims 1-16 wherein the outputting
2 includes displaying the selected advertisement.

1 18. A computer-readable medium containing instructions for
2 controlling a computer to output advertisements while a user interacts with a
3 computer program executing at the computer, by a method comprising:
4 providing a collection of advertisements at the computer;
5 starting execution of the computer program on the computer;
6 selecting an advertisement from the provided collection of
7 advertisements; and
8 outputting the selected advertisement so that the user can
9 perceive the selected advertisement while interacting with the computer
10 program.

1 19. The computer-readable medium of claim 18 including
2 providing additional advertisements to the computer.

1 20. The computer-readable medium of claims 18-19
2 including:
3 selecting another advertisement from the provided collection of
4 advertisements; and
5 outputting the selected other advertisement.

1 21. The computer-readable medium of claim 20 including
2 storing indications of the output advertisements.

1 22. The computer-readable medium of claim 21 including
2 sending to a server computer the stored indications.

1 23. The computer-readable medium of claims 18-22
2 including:
3 receiving from a user selection of an output advertisement; and
4 storing an indication that the user selected the output
5 advertisement.

1 24. The computer-readable medium of claim 23 including
2 sending to a server computer the stored indication.

1 25. The computer-readable medium of claims 18-24
2 wherein the selection of the advertisement is based on a characteristic of the
3 user.

1 26. The computer-readable medium of claims 18-25
2 wherein the provided collection is based on a characteristic of the user.

1 27. The computer-readable medium of claims 18-26
2 wherein the computer program is a game and including collecting statistics
3 relating to the game.

1 28. The computer-readable medium of claim 27 including
2 sending the collected statistics to a server computer.

1 29. The computer-readable medium of claims 18-28
2 wherein the computer program does not interact with another computer
3 during its execution.

1 30. The computer-readable medium of claims 18-29
2 wherein the execution of the computer program and the selecting of the
3 advertisement are independent of a server computer.

1 31. The computer-readable medium of claims 18-30
2 wherein the collection of advertisements is provided by a server computer.

1 32. The computer-readable medium of claims 18-31
2 wherein the selecting and outputting are under control of the executing
3 computer program.

1 33. The computer-readable medium of claims 18-31
2 wherein the selecting and outputting are under control of another executing
3 computer program.

1 34. The computer-readable medium of claims 18-33
2 wherein the outputting includes displaying the selected advertisement.

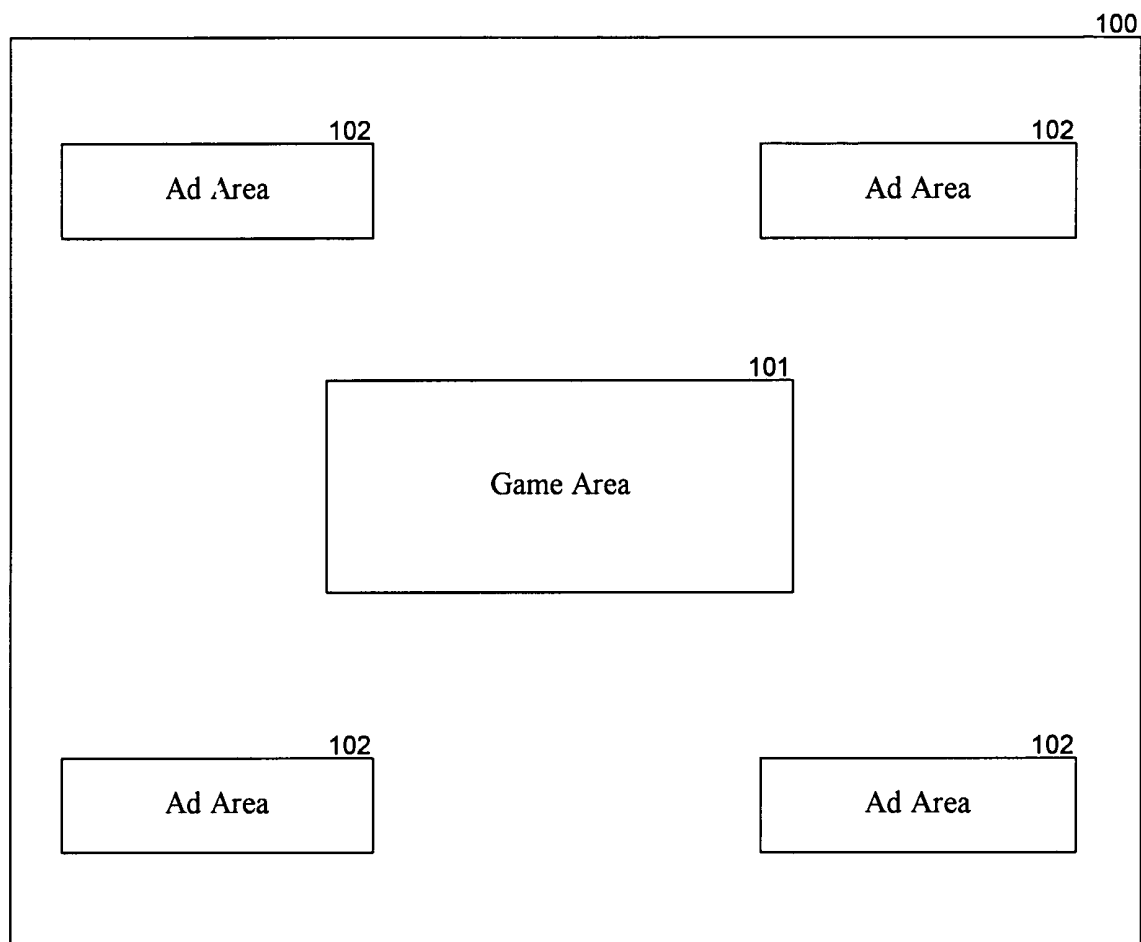
1 35. The computer-readable medium of claims 18-34
2 wherein the selecting and outputting are performed during execution of the
3 computer program.

1 36. A system for outputting advertisements at a computer
2 while a user interacts with a computer program executing at the computer,
3 comprising:
4 means for storing a collection of advertisements at the
5 computer;
6 means for executing the computer program;
7 means for selecting an advertisement from the collection of
8 advertisements; and
9 means outputting the selected advertisement so that the user
10 can perceive the selected advertisement while interacting with the computer
11 program.

1 37. The system of claim 36 including means for providing
2 additional advertisements to the computer.

1 38. The system of claims 36-37 including:
2 means for selecting another advertisement from the provided
3 collection of advertisements; and
4 means for outputting the selected other advertisement.

1 39. The system of claims 36-38 means for sending
2 indications of selected advertisements to a server computer.

*Fig. 1*

200

Address	www.adtours . . .
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You have selected the following ads

201

Ad 1

Ad 2

Ad 3

Select the start button to start the tour of the advertised sites

202

Start tour

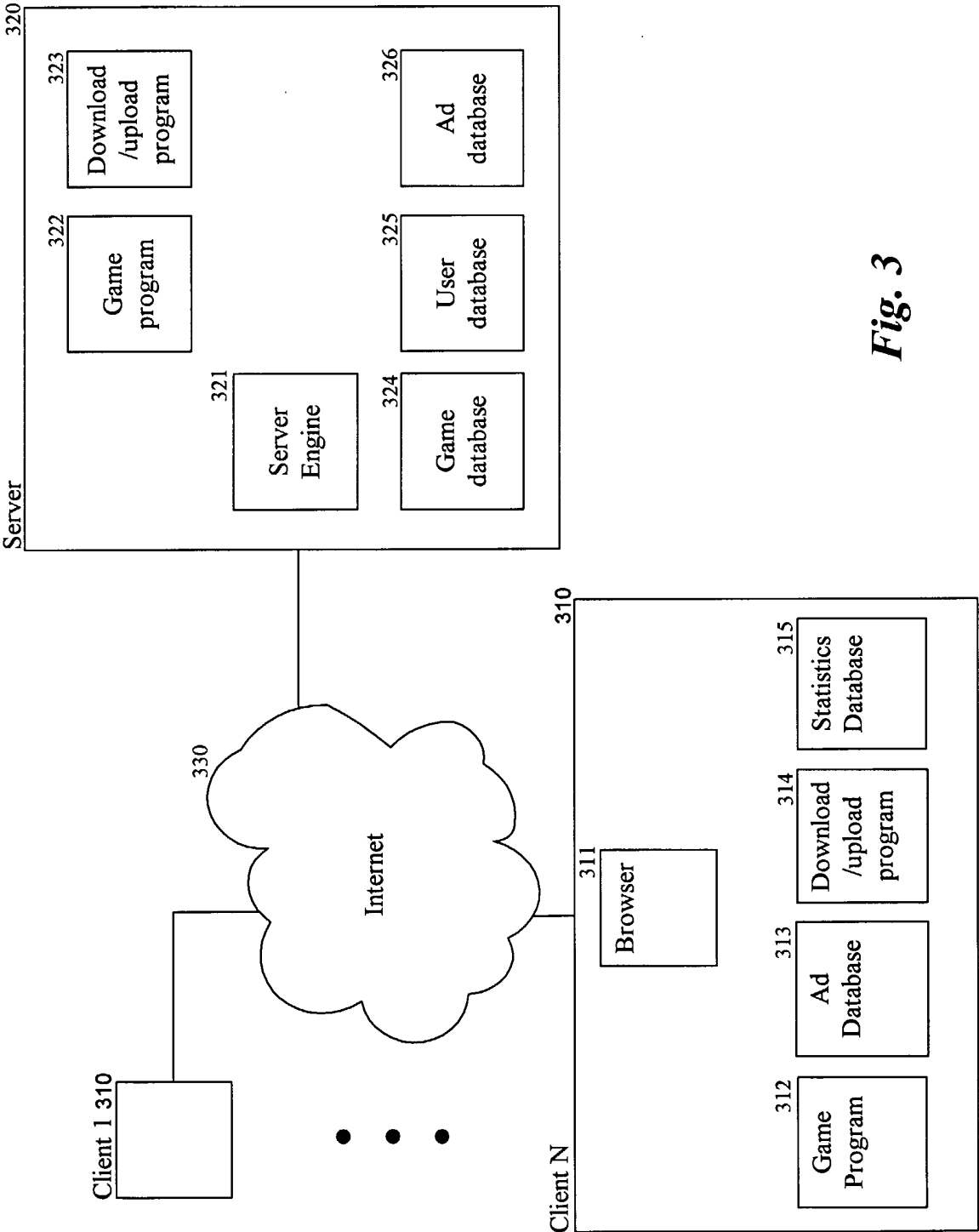
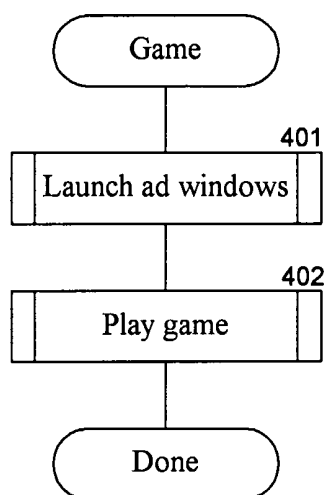
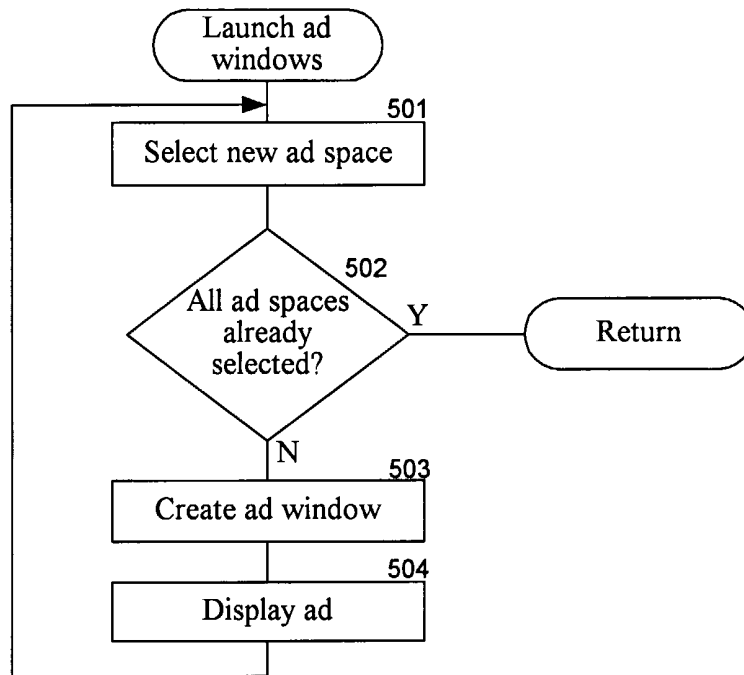
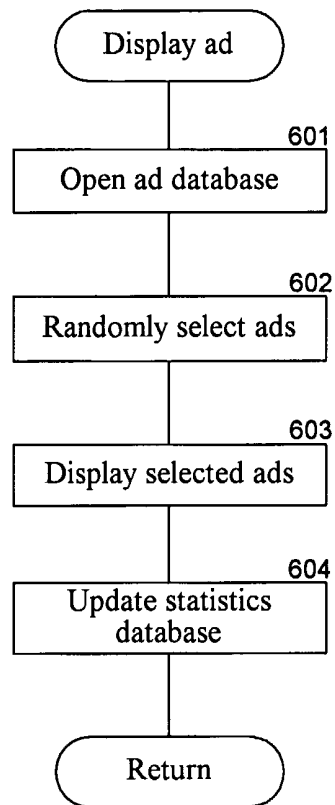


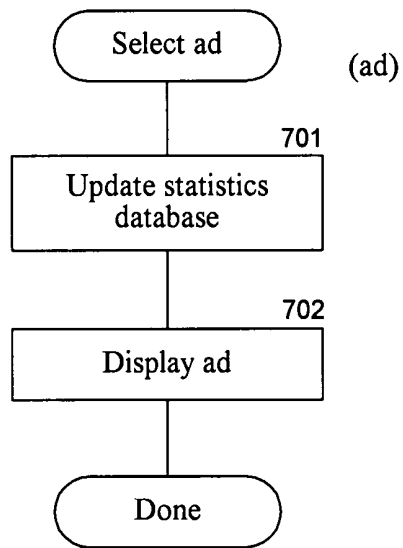
Fig. 3

***Fig. 4***

***Fig. 5***

***Fig. 6***

7/7

***Fig. 7***

PATENT COOPERATION TREATY

PCT

DECLARATION OF NON-ESTABLISHMENT OF INTERNATIONAL SEARCH REPORT

(PCT Article 17(2)(a), Rules 13ter.1(c) and Rule 39)

Applicant's or agent's file reference 336018001W0	IMPORTANT DECLARATION	Date of mailing(day/month/year) 13/06/2001
International application No. PCT/US 01/ 07358	International filing date(day/month/year) 08/03/2001	(Earliest) Priority date(day/month/year) 10/03/2000
International Patent Classification (IPC) or both national classification and IPC		G06F17/60
Applicant ACCERO, INC.		

This International Searching Authority hereby declares, according to Article 17(2)(a), that **no international search report will be established** on the international application for the reasons indicated below

1. ☒ The subject matter of the international application relates to:
 - a. ☐ scientific theories.
 - b. ☐ mathematical theories
 - c. ☐ plant varieties.
 - d. ☐ animal varieties.
 - e. ☐ essentially biological processes for the production of plants and animals, other than microbiological processes and the products of such processes.
 - f. ☒ schemes, rules or methods of doing business.
 - g. ☐ schemes, rules or methods of performing purely mental acts.
 - h. ☐ schemes, rules or methods of playing games.
 - i. ☐ methods for treatment of the human body by surgery or therapy.
 - j. ☐ methods for treatment of the animal body by surgery or therapy.
 - k. ☐ diagnostic methods practised on the human or animal body.
 - l. ☐ mere presentations of information.
 - m. ☐ computer programs for which this International Searching Authority is not equipped to search prior art.

2. ☐ The failure of the following parts of the international application to comply with prescribed requirements prevents a meaningful search from being carried out:

☐ the description
☐ the claims
☐ the drawings

3. ☐ The failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions prevents a meaningful search from being carried out:

☐ the written form has not been furnished or does not comply with the standard.

☐ the computer readable form has not been furnished or does not comply with the standard.

4. Further comments:

Name and mailing address of the International Searching Authority  European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Mar'a Rodr'guez N'voa
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 203

The subject-matter claimed in claims 1-17 falls under the provisions of Article 17(2)(a)(i) and Rule 39.1(iii), PCT, such subject-matter relating to a method of doing business.

Claims 18-39 relate to a conventional system (program product, computer readable medium) for performing the business method of claims 1-17. Although these claims do not literally belong to the method category, they essentially claim protection for the same commercial effect as the method claims. The International Searching Authority considers that searching this subject-matter would serve no useful purpose. It is not at present apparent how the subject-matter of the present claims may be considered defensible in any subsequent examination phase in front of the EPO as International Preliminary Examining Authority with regard to the provisions of Article 33(1) PCT (novelty, inventive step); see also Guidelines B-VII, 1-6).

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.