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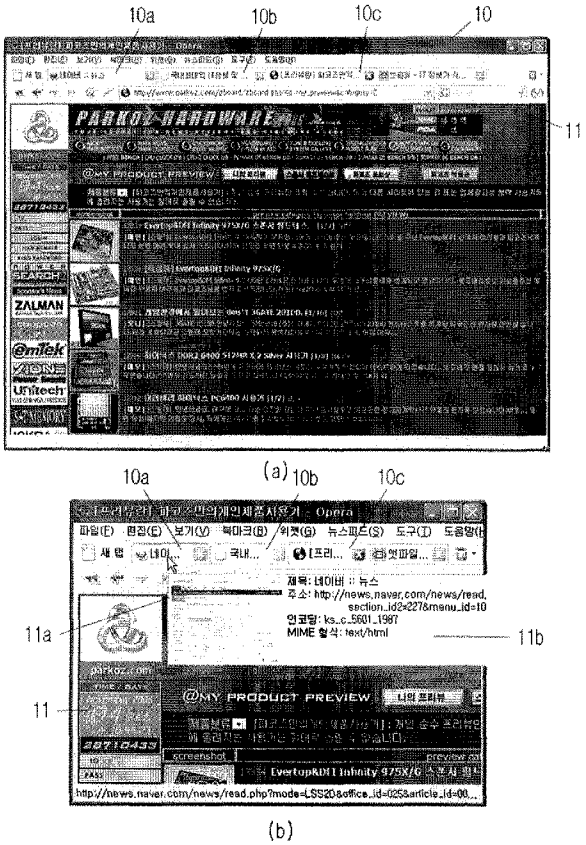
[Continued on next page]

(54) Title: ADVERTISEMENT METHOD AND DISPLAYING METHOD OF SEARCHING RESULT BY TAP-BROWSING IN THE WEB-BROWSER AND ADVERTISEMENT SYSTEM



(57) Abstract: A system for providing advertisements in a web browser using tabbed browsing is disclosed. A web browser includes a tabbed browsing module which displays a plurality of web page layers in a single web window. A web page analysis module separates an advertisement region and a non-advertisement region from each other by analyzing each original web page transmitted over the Internet. When the tabbed browsing module reduces the size of the original web page and displays it in the form of a web page layer, an advertisement script editing module modifies the advertisement script of the advertisement region analyzed by the web page analysis module, thereby performing editing. Therefore, a reduction ratio for the advertisement region is less than a reduction ratio for the original web page, and the advertisement region is replaced with text or one or more images.

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【DESCRIPTION】

【Invention Title】

ADVERTISEMENT METHOD AND DISPLAYING METHOD OF SEARCHING RESULT BY TAP-BROWSING IN THE WEB-BROWSER AND ADVERTISEMENT SYSTEM

【Technical Field】

The present invention relates to a method of providing advertisements in a web browser using tabbed browsing, a method of displaying search results in a web browser using tabbed browsing, and an advertising system for performing the advertising method.

【Background Art】

With the development of the Internet, various subcultures have been created in the online environment. The created online cultures have produced cultural items and content, as have offline cultures. That is, the number of people who have made contact with online cultures has increased, so that a large-sized market has been created.

With such flow, portal sites for providing various types of items and content in the online environment have made enormous business profits. Therefore, service providers who provide various types of services and content not only in portal sites but also online are seeking new advertising media that can increase advertising efficiency and receive larger numbers of advertisements.

Meanwhile, with the improvement of the functions of web browsers, tabbed browsing, which has a function enabling a plurality of web pages to be viewed via a single window at one time, has been developed. The tabbed browsing has overcome its technical weakness and has become widely introduced, thus attracting users' attention.

In the future, the use of tabbed browsing is expected to be popularized.

【Disclosure】

【Technical Problem】

Accordingly, the present invention has been made keeping in mind the above problems occurring in the prior art, and an object of the present invention is to provide a method of providing advertisements in a web browser using tabbed browsing, which can provide various types of advertisements while reducing burden received when a user views advertisements, thereby maximizing advertising efficiency, and an advertising system for performing the advertising method.

Another object of the present invention is to provide a method of displaying search results in a web browser using tabbed browsing, which minimizes the time required to detect more search results by detecting the search results, including advertisements, found by a user, at once, thereby increasing search efficiency.

【Technical Solution】

In order to accomplish the above objects, the present invention provides a system for providing advertisements in a web browser using tabbed browsing, including a web browser including a tabbed browsing module for displaying a plurality of web page layers in a single web window; a web page analysis module for separating an advertisement region and a non-advertisement region from each other by analyzing each original web page transmitted over the Internet; and an advertisement script editing module for, when the tabbed browsing module reduces the size of the original web page and displays it in the form of a web page layer, modifying the advertisement script of the advertisement region analyzed by the web page analysis module, thereby performing editing so that a reduction ratio for the advertisement region is less than a reduction ratio for the original web page, or so that the advertisement region is replaced with text or one or more images.

In order to accomplish the above objects, the present invention

provides a method of providing advertisements in a web browser using tabbed browsing, including a web page analyzing step of separating an advertisement region and an non-advertisement region from each other by analyzing the script of an original web page which will be tabbed; and an advertisement region editing step of, when the size of the original web page is reduced so that the original web page is changed into a web page layer, modifying the advertisement script of the advertisement region, thereby performing editing so that a reduction ratio for the advertisement region is less than a reduction ratio for the original web page, or so that the advertisement region is replaced with text or one or more images; and a web page displaying step of displaying the web page layer, which has been edited at the advertisement region editing step, and will be tabbed, in a tabbed browsing layer.

【Advantageous Effects】

According to the present invention, regardless of the change of the size of a tabbed web page, one or more advertisements included in the corresponding web page are edited/displayed so as to easily attract the user's attention, so that advertising efficiency is prevented from being lowered by tabbed browsing, and advertising media can be supplied to insert/display information, such as advertisements, in the empty space of a tabbed browsing layer, thereby suggesting a new model for advertising business.

Further, search results over the Internet are displayed in a tabbed-browsing manner, with the result that a user can detect a plurality of search results at once, so that it is advantageous in that detection and investigation of the search results are easily and effectively conducted.

【Description of Drawings】

FIG. 1 is a block diagram showing an advertising system according to the present invention;

FIG. 2 is a flowchart showing, in steps, the state where an advertising method is performed by the advertising system of FIG. 1;

FIG. 3 is a flowchart showing another example of the state where an advertising method is performed according the present invention;

FIG. 4 is an image showing tabbed browsing;

FIG. 5 is an image showing the state where the advertising method and the advertising system are performed according to the present invention;

FIG. 6 is a block diagram showing a display system for performing a method of displaying search results according to the present invention;

FIG. 7 is a flowchart showing, in steps, the state where the method of displaying search results is performed according to the present invention; and

FIG. 8 is an image showing the state where the method of displaying search results is performed according to the present invention.

【Mode for Invention】

Hereinafter, embodiments of the present invention will be described in detail with reference to the attached drawings.

FIG. 1 is a block diagram showing an advertising system according to the present invention, and FIG. 2 is a flowchart showing, in steps, the state where an advertising method is performed by the advertising system of FIG. 1. The following description will be given with reference to these drawings.

An advertising system according to the present invention includes a user terminal 100 for accessing the Internet via a web browser 110, and an advertisement provision server 200 which is a web server for communicating with the user terminal 100 over the Internet.

Here, the web browser 110 must include a tabbed browsing module 111 capable of performing a tabbed-browsing function so as to implement the present invention.

Although tabbed browsing is a function that has been implemented since Internet Explorer version 7.0 (IE 7.0), which is a type of web browser, the tabbed-browsing function is not limitedly applied to the web browser of the IE7.0 model.

FIG. 4 is an image showing tabbed browsing. The following description will be given with reference to this drawing.

As shown in FIG. 4, when a plurality of web pages 11 is displayed in a web window 10 displayed by executing a web browser 110, the tabbed browsing allows the plurality of web pages 11 to be displayed within the single web window 10.

FIG. 4(a) shows a feature in which a single web page 11 is displayed in a single web window 10, like a conventional web browser, which does not have a tabbed-browsing function. In contrast, one or more tabs, that is, first, second, and third tabs 10a, 10b, and 10c, are formed in the menu bar of the web window 10 to which the tabbed-browsing function is applied, and a preview layer 11a appears when a user moves a mouse cursor and places it over one of the first, second, and third tabs 10a, 10b, and 10c, as shown in FIG. 4(b).

Further, if the mouse cursor is placed over an arbitrary tab, that is, the first, second, or third tab 10a, 10b, or 10c, for a long time, a guide layer 11b which includes brief information about the first, second, or third tab 10a, 10b, or 10c may be formed.

Here, since the preview layer 11a displays the entire feature of a specific web page, the user can analyze the web pages of other tabs, that is, the first, second, and third tabs 10a, 10b, and 10c while the user does not switch between the web pages 11.

However, in addition to the above-described functions, the tabbed browsing can allow a plurality of web pages to be displayed in a single web window 10, as shown in FIG. 5. This will be described in further detail below.

In order to describe the advertising system according to the present invention in further detail, the respective elements of the advertising system will be described along with the advertising method.

S10; Tabbed browsing activating step

As described above, the advertising system and method according to the present invention uses the tabbed-browsing function. The web browser 110 includes the tabbed browsing module 111, which is capable of performing the tabbed-browsing function, so that tabbed browsing can be conducted at any time.

The tabbed browsing module 111 is executed when the web browser 110 is performed.

S20; A web page analyzing step

When a user accesses a plurality of web sites and opens a plurality of web windows, the respective web pages of the websites are displayed in a single web window if tabbed browsing is performed.

FIG. 5 is an image showing the state where the advertising method and the advertising system are performed according to the present invention. The

following description will be given with reference to this drawing.

Referring to FIG. 5(a), in a web window 10 in which tabbed browsing is implemented, one or more web page layers, that is, first, second, and third web page layers 12a, 12b, and 12c, are placed and then displayed in a tabbed browsing layer 12. Here, the first, second, and third web page layers 12a, 12b, and 12c are viewed as the features of their own general web page??, respectively. The user can select one of them and enlarge the size of the selected web page layer.

The selection method may include a method of clicking the corresponding first, second, or third tab 10a, 10b or 10c, or a method of directly clicking the first, second, or third web page layer 12a, 12b, or 12c.

However, the sizes of the conventional tabbed web page layers, that is, the first, second, and third web page layers 12a, 12b, and 12c, are reduced, so that elements included in the respective web page layers cannot be easily viewed and analyzed, as shown in FIG. 5(a).

That is, although the corresponding first, second, and third web page layers 12a, 12b, and 12c can be distinguished from each other, the elements of the respective first, second, and third web page layers 12a, 12b, and 12c cannot be analyzed in detail so that they can be understood. Therefore, it is difficult to analyze the content of the tabbed web pages. Further, one or more advertisements included in the first, second, and third web page layers 12a, 12b, and 12c cannot attract user' s attention.

For reference, although the original web page of the second web page layer 12b includes two advertisements 'a' and 'b', it is difficult to analyze the corresponding advertisements 'a' and 'b' of the tabbed second web page layer 12b, as shown in FIG. 5(a).

Therefore, as shown in FIG. 5(b), the advertising method and system according to the present invention edits advertisements 'a' ' and 'b' ' so that the user can determine the type of web page of the second web page layer 12b while easily analyzing the corresponding advertisements. For this purpose, when tabbed browsing is performed and the size of an original web

page is reduced, the advertising method and system according to the present invention causes the advertisement 'a' to be reduced at a reduction ratio less than the reduction ratio of the original web page, or causes text or images, which correspond to the keyword of the content of the advertisement 'b', to be displayed by replacing the corresponding advertisement 'b'.

For this purpose, a web page analysis module 120 divides elements of the original web page into advertisements and non-advertisements by analyzing the original web page. In the case of the advertisements, whether the type of each advertisement corresponds to a still image or a Flash movie must be checked. Meanwhile, one or more advertisements to be applied to a web page are manufactured using the advertising method and system according to the present invention. Here, when the tabbed browsing is performed and the size of the corresponding web page is reduced, information about the change/replacement of the corresponding advertisements may be used.

The above-described analysis of a web page can be performed by analyzing a script which is used to construct the web page. The following advertisement region editing step (S30) is performed by editing a script corresponding to a specific region.

S30; Advertisement region editing step

One or more advertisements, which construct original web pages, are analyzed through the analysis of the original web pages. When the elements of the original web pages are analyzed, an advertisement script editing module 130 performs the editing of the advertisements at the moment when tabbed browsing is applied to the plurality of original web pages.

As described above, the second web page layer 12b includes two advertisements 'a' and 'b', and the size of the second web page layer 12b is reduced so as to be 10% of the size of the original web page when the tabbed browsing is performed Of course, the sizes of the respective advertisements 'a' and 'b' must be reduced to be 10% of the sizes of the original advertisements, but advertisements 'a'' and 'b'' are displayed

while having sizes larger than the sizes that should be reduced, as shown in FIG. 5(b). That is, when the second web page layer 12b is reduced and the advertisements 'a' and 'b' included in the original web page of the second web page layer 12b are edited, the advertisements 'a'' and 'b'' of FIG. 5(b) are reduced at different ratios, rather than the same ratio.

Meanwhile, an advertisement script editing module 130 can perform editing so that the reduction ratio for an advertisement region differs from the reduction ratio for the original web page when tabbed browsing is performed and the original web page is reduced, and can display an advertisement 'b'' to have a different form from the original advertisement 'b'. That is, only the important words or images of the advertisement 'b' are enlarged and the other portions are omitted, thereby causing users to pay attention to the advertisement, the size of which is reduced.

In an embodiment of the present invention, the advertisement 'b' is a Flash movie which advertises 'beer'. The edited advertisement 'b'' is edited/displayed to words 'cool beer', thereby attracting the user's attention.

S40; Web page displaying step

The first, second, and third web page layers 12a, 12b, and 12c, the sizes of which are reduced when the tabbed browsing is performed, are displayed on the tabbed browsing layer 12 at once. FIGS. 5(a) and 5(b) show the state where the first, second, and third web page layers 12a, 12b, and 12c are displayed. In particular, FIG. 5(b) shows the state where the advertisements 'a'' and 'b'' of the second web page layer 12b are edited/displayed by applying the advertising method and system according to the present invention.

For reference, since the first and third web page layers 12a and 12c do not include any advertisements, an additional editing process is not executed.

S50; Web page selecting step

The user selects one web page from the first, second, or third web page layers 12a, 12b, and 12c. The selection method comprises clicking on the first, second, or third tab 10a, 10b, or 10c, or directly clicking on the first, second, or third web page layer 12a, 12b, or 12c, as described above.

S60; Advertisement region restoring step

If the user selects the second web page layer 12b, the second web page layer 12b is restored to the original size, and the advertisement script editing module 130 restores the modified advertisements 'a' ' and 'b' ' to the original advertisements 'a' and 'b' .

S70; Web page enlarging and displaying step

The second web page layer 12b, restored to its original size, is displayed while occupying the entire web window 10. Of course, although the first and third web page layers 12a and 12c, which are different from the second web page layer 12b, are not displayed, as shown in FIG. 4, they can be detected using the first, second, and third tabs 10a, 10b, and 10c.

FIG. 3 is a flowchart showing another state where an advertising method is performed according the present invention. The following description will be given with reference to this drawing.

A method of editing the tabbed first, second, and third web page layers 12a, 12b, and 12c, and a method of inserting first to fourth advertisements 13 to 16 into the tabbed browsing layer 12, on which the first, second, and third web page layers 12a, 12b, and 12c are placed, may be applied to the advertising method according to the present invention.

The tabbed browsing layer 12, on which a predetermined number of web page layers is displayed, has empty space, as shown in FIG. 5(a), and the first to fourth advertisements 13 to 16 are inserted into the empty space, as

shown in FIG. 5(b).

S80; Tabbed-browsing layer analyzing step

The empty space, on which the first, second, and third web page layers 12a, 12b, and 12c are not placed, are found from the tabbed browsing layer 12, including the tabbed first, second, and third web page layers 12a, 12b, and 12c.

The tabbed browsing layer 12, described as an example in FIG. 5, includes an empty space having a relatively wide range, while the first, second, and third web page layers 12a, 12b, and 12c are placed. A layer detection module 160 according to the present invention searches for the empty space by analyzing the script of the tabbed browsing layer 12.

Meanwhile, the number of web page layers is not limited to the above-described three layers, and one or more layers may be used. Therefore, the amount of empty space may differ depending on the number of displayed web page layers.

S90; Advertisement searching step

The layer detection module 160 searches an advertisement DataBase (DB) 140 for one or more optimal advertisements which can be inserted into the found empty space.

The advertisement DB 140 can be provided/updated by the advertisement provision server 200 for communicating with the user terminal 100 online. If the web browser 110 performs tabbed browsing, the advertisement provision server 200 can sense the fact that the tabbed browsing is performed, and actively transmit necessary advertisement data to the user terminal 100 even though the advertisement DB 140 is not installed in the user terminal 100.

S100; Advertisement displaying step

An advertisement display module 150 according to the present invention checks advertisement data supplied from the advertisement DB 140 or the

advertisement provision server 200, and displays the advertisement data in the tabbed browsing layer 12. Here, the first to fourth advertisements 13 to 16 should be placed so that they do not cover part or all of the first, second, and third web page layers 12a, 12b, and 12c, displayed in the tabbed browsing layer 12, and do not interfere with the first, second, and third web page layers 12a, 12b, and 12c. Therefore, the number and locations of the first to fourth advertisements 13 to 16 to be displayed /placed will differ depending on the number and placement of the web page layers on the tabbed browsing layer 12.

FIG. 6 is a block diagram showing a display system for performing a method of displaying search results according to the present invention, and FIG. 7 is a flowchart showing the state where the method of displaying search results is performed in steps according to the present invention. The following description will be given with reference to these drawings.

In the display system according to the present invention, a user terminal 100', having a tabbed browsing module 111, accesses a search server 300 over the Internet, and a user requests search results by entering a keyword corresponding to information to be searched for.

S100; Search server accessing step

The user accesses the search server 300 using the user terminal 100'.

Here, although the search server 300 may be a server for a general search site or a shopping mall site, an embodiment according to the present invention will be described in which the search server 300 is the server of a shopping mall site.

S200; Keyword entering step

FIG. 8 is an image showing the state where the method of displaying search results is performed according to the present invention. The following description will be given with reference to this drawing.

A user enters a keyword, desired to be searched for, in an input box 21a on the web page 21 of the search server 300, which is being displayed via the web window 20.

In an embodiment according to the present invention, the user accesses a shopping mall site which sells shaving razors ("www.myundogi.com" is taken as an example), and enters the keyword 'shaving razor' in the input box 21a displayed on the web page 21 of the corresponding site.

S300; Searching step

The search module 310 of the search server 300 receives the keyword entered by the user, searches an article DB 330 based on the keyword , and then extracts information related to shaving razors.

S400; Tabbed-browsing requirements setting step

The search module 310 searches the article DB 330, and extracts a plurality of search results.

Here, it is not necessary to endure the inconvenience of the conventional method, in which a plurality of search results having an equal relationship therebetween is arranged in lines on a single web page, and a user selects one of the search results from an arranged list, thereby checking web pages for the corresponding search result by individually displaying them. That is, in the method of displaying search results according to the present invention, the first to third web pages 23, 24, 25 corresponding to the search results are placed in a single tabbed browsing layer 22 via the user terminal 100' in a tabbed-browsing manner, so that the user can view all the search results at once.

For this purpose, the display module 320 of the search server 300 sets requirements so that the tabbed browsing module 111 displays the first to third search results 23, 24, and 25 found by the search server 300 in a single web window 20 while associating with the tabbed browsing module 111 of the user terminal 100' .

Here, for the setting of requirements, a command function, which enables the web browser of the user terminal 100' to perform a tabbed-browsing function, is attached when the first to third search results 23, 24, and 25 are transmitted, relevant web pages are linked to the respective first to third search results 23, 24, and 25, and tabbed browsing is performed in the web window 20 due to the command function when the first to third search results 23, 24, and 25 are received by the user terminal 100', with the result that the web pages linked to the respective first to third search results 23, 24, and 25 are displayed via the single web window 20 at the same time.

In order to set the requirements, the types of first to third search results 23, 24, and 25 must be determined, and the number of search results that will be inserted/placed into/in the single tabbed browsing layer 22 must be determined when the tabbed browsing is performed in the user terminal 100' using the first to third search results 23, 24, and 25. Therefore, the display module 320 transmits the above-described information to the tabbed browsing module 111.

S500; Search results transmitting step

The display module 320 of the search server 300 transmits the search results found from the article DB 330 by the search module 310 in the form of web pages.

S600; Search results displaying step

The tabbed browsing module 111 of the user terminal 100' receives the search results transmitted from the search server 300, and performs tabbed browsing, thereby displaying the first to third search results 23, 24, and 25 in the web window 20.

【CLAIMS】

【Claim 1】

A system for providing advertisements in a web browser using tabbed browsing, comprising:

a web browser comprising a tabbed browsing module for displaying a plurality of web page layers in a single web window;

a web page analysis module for separating an advertisement region and a non-advertisement region from each other by analyzing each original web page transmitted over an Internet; and

an advertisement script editing module for, when the tabbed browsing module reduces a size of the original web page and displays it in a web page layer form, modifying an advertisement script of the advertisement region analyzed by the web page analysis module, thereby performing editing so that a reduction ratio for the advertisement region is less than a reduction ratio for the original web page, or so that the advertisement region is replaced with text or one or more images.

【Claim 2】

The system according to claim 1, further comprising:

a tabbed browsing layer detection module for, when the tabbed browsing module displays the plurality of web page layers in a tabbed browsing layer within the single web window, searching for empty space by analyzing a script of the tabbed browsing layer, including the web page layers; and

an advertisement display module for inserting advertisement data into the empty space and displaying the advertisement data together with the web page layers.

【Claim 3】

A method of providing advertisements in a web browser using tabbed browsing, comprising:

a web page analyzing step of separating an advertisement region and an

non-advertisement region from each other by analyzing a script of an original web page which will be tabbed; and

an advertisement region editing step of, when a size of the original web page is reduced so that the original web page is changed into a web page layer, modifying an advertisement script of the advertisement region, thereby performing editing so that a reduction ratio for the advertisement region is less than a reduction ratio for the original web page, or so that the advertisement region is replaced with text or one or more images; and

a web page displaying step of displaying the web page layer, which has been edited at the advertisement region editing step, and will be tabbed, in a tabbed browsing layer.

【Claim 4】

The method according to claim 3, further comprising:

a web page selecting step of a user enlarging/restoring the web page layer to the original web page by selecting the web page layer in the tabbed browsing layer displayed at the web page displaying step; and

an advertisement region restoring step of restoring the advertisement region, edited at the advertisement region editing step and included in the web page layer to be restored, to an original size thereof.

【Claim 5】

The advertising method according to claim 3 or 4, further comprising:

a tabbed browsing layer detecting step of searching for empty space, which is not occupied by the web page layer, by analyzing a script of the tabbed browsing layer;

an advertisement searching step of searching for advertisement data which can be inserted into the found empty space; and

an advertisement displaying step of finally displaying a tabbed browsing layer, into which the advertisement data is inserted by editing the script of the tabbed browsing layer so as to insert the found advertisement

data into the empty space.

【Claim 6】

A method of displaying search results in a web browser using tabbed browsing, comprising:

a keyword entering step of inputting a keyword to a search server which a user terminal has accessed;

a searching step of the search server searching for relevant data based on the input keyword;

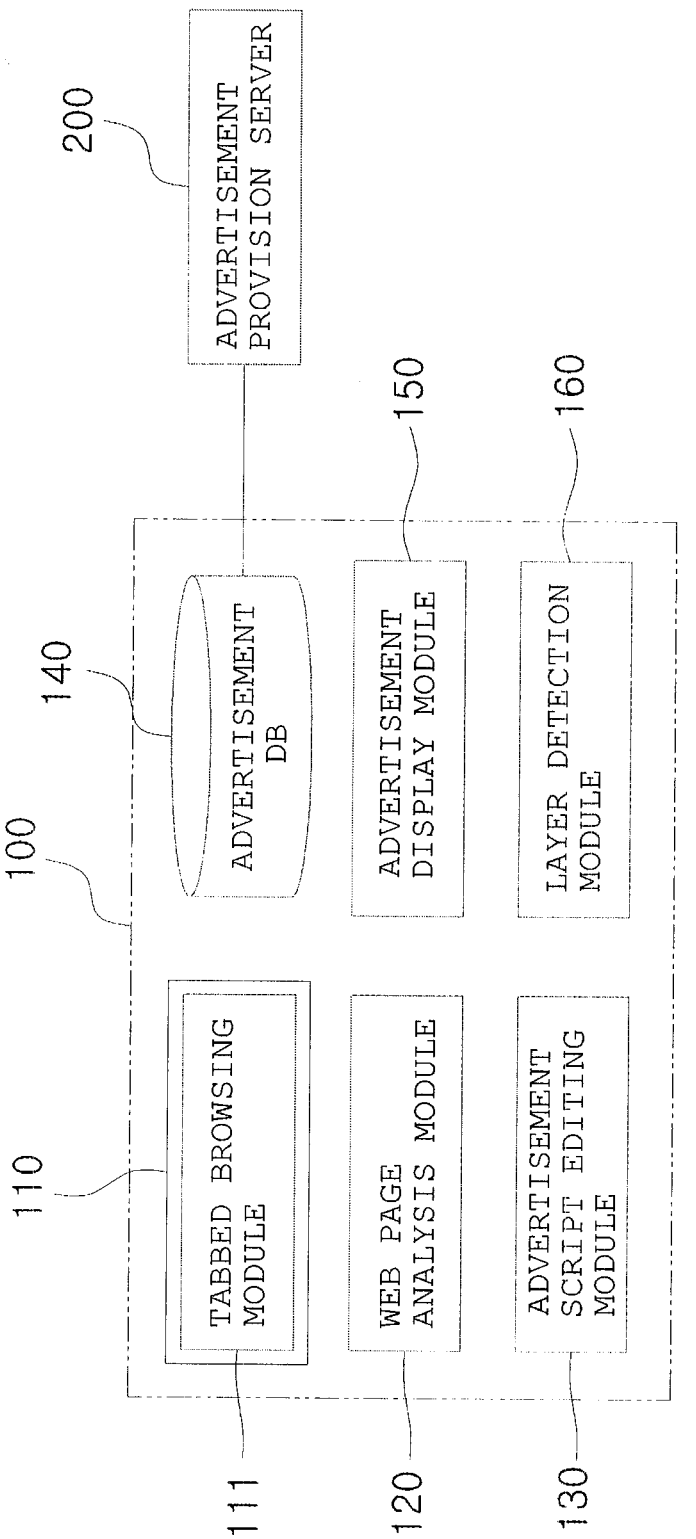
a tabbed browsing requirements setting step of determining a number of search results found at the searching step and a number of search results to be placed in a single tabbed browsing layer;

a search results transmitting step of transmitting the search results to the user terminal along with the requirements; and

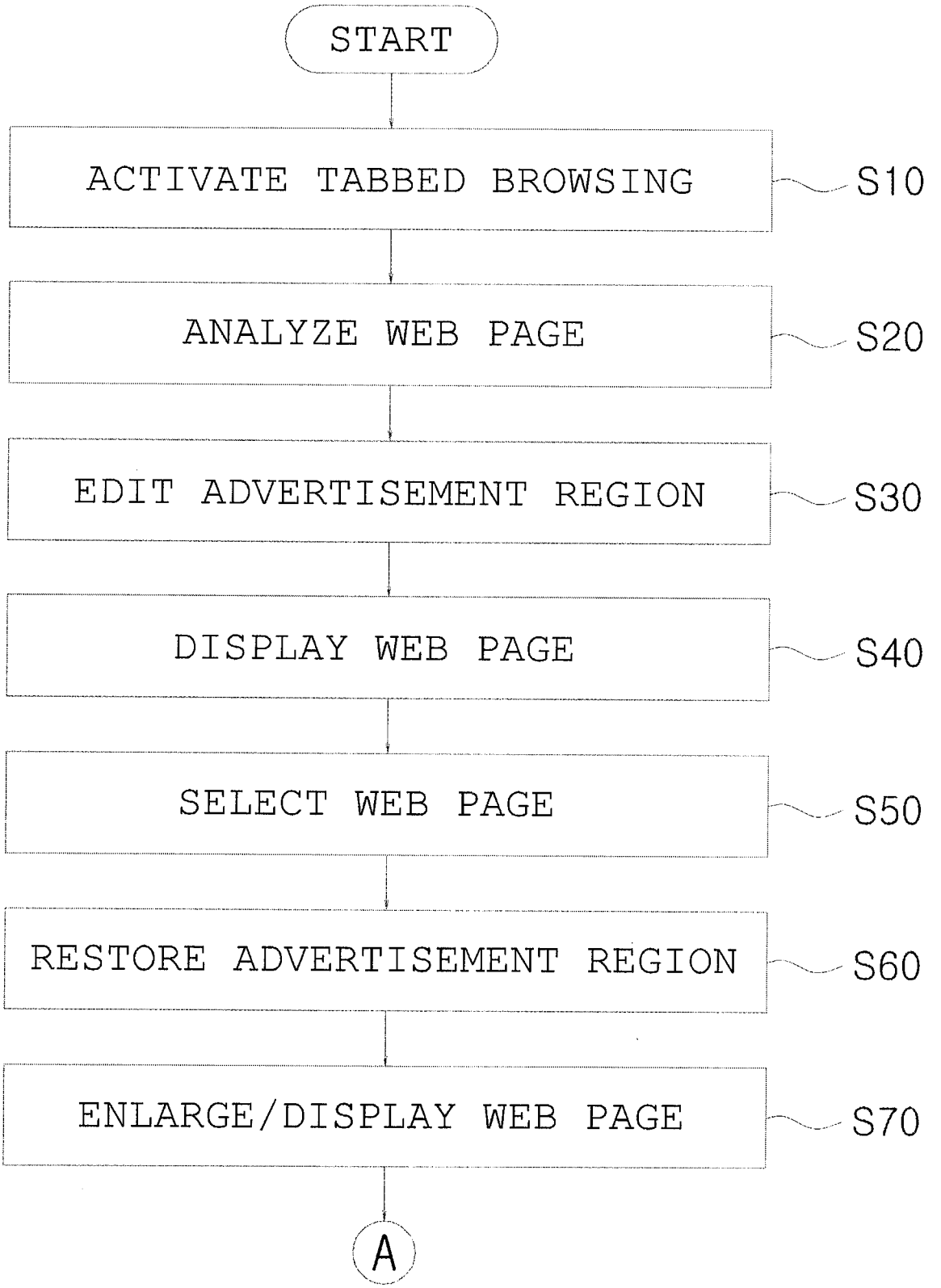
a search results displaying step of tabbing and displaying the search results in a web page layer form in the tabbed browsing layer on the user terminal.

【DRAWINGS】

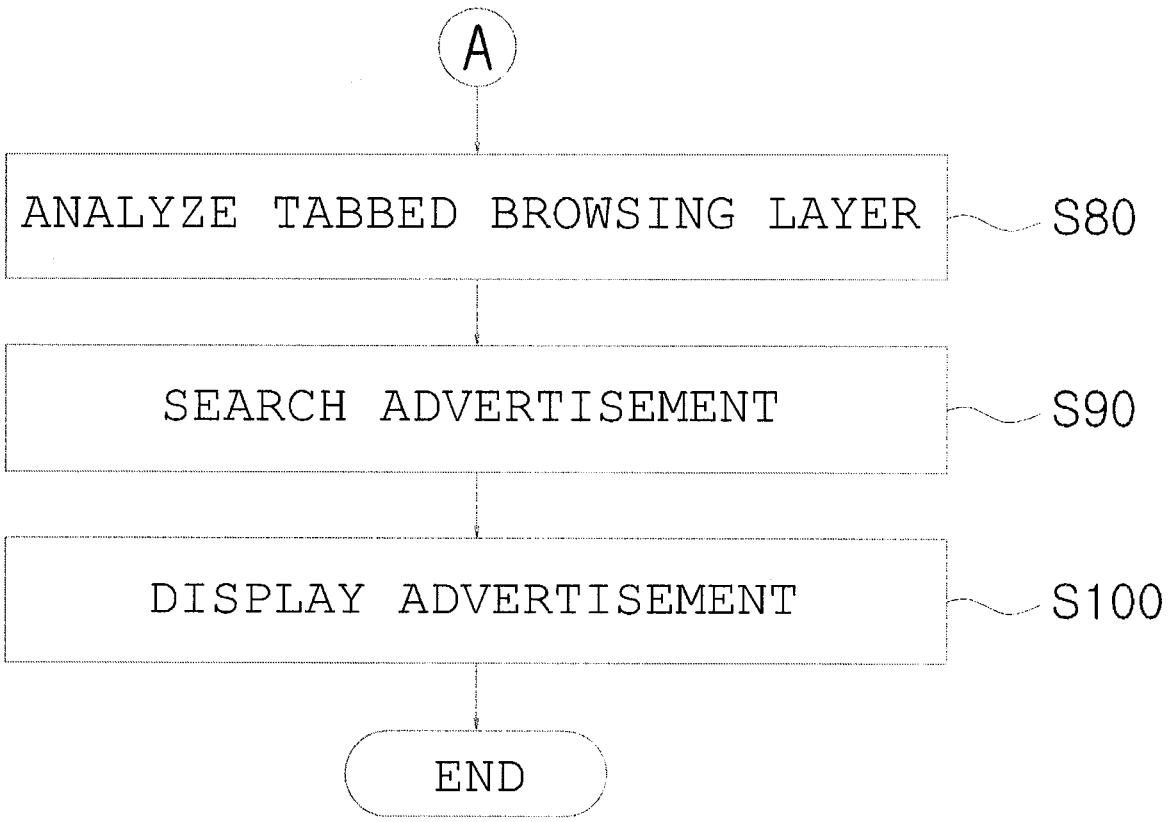
【Figure 1】



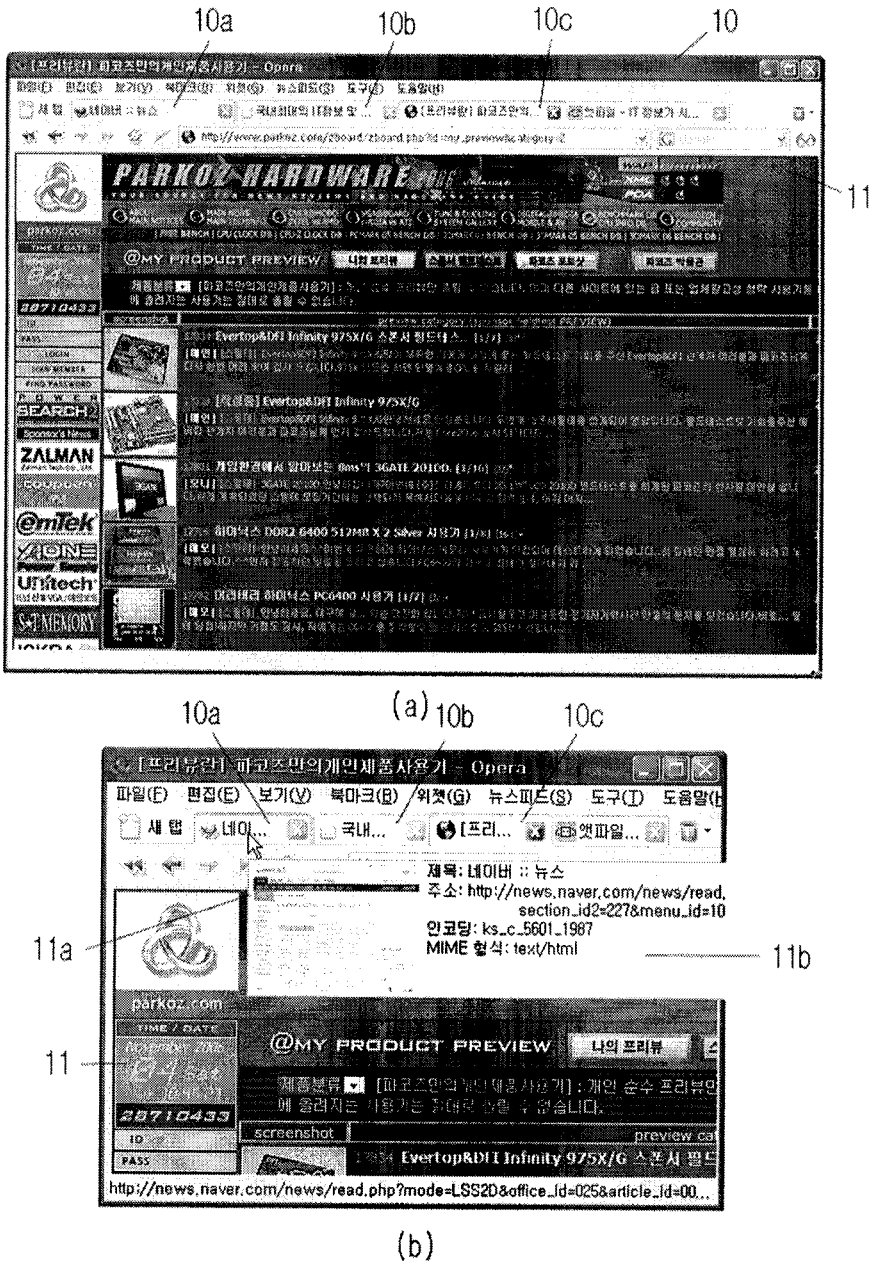
【Figure 2】


START
ACTIVATE TABBED BROWSING
S10
ANALYZE WEB PAGE
S20
EDIT ADVERTISEMENT REGION
S30
DISPLAY WEB PAGE
S40
SELECT WEB PAGE
S50
RESTORE ADVERTISEMENT REGION
S60
ENLARGE/DISPLAY WEB PAGE
S70
A

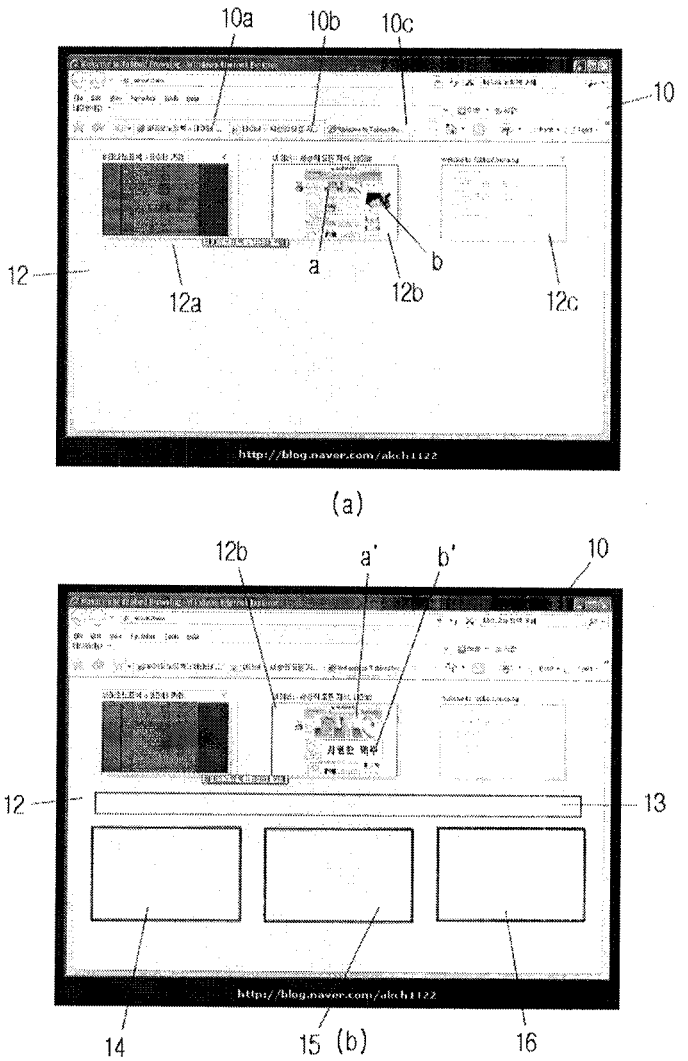
【Figure 3】


A
ANALYZE TABBED BROWSING LAYER
S80
SEARCH ADVERTISEMENT
S90
DISPLAY ADVERTISEMENT
S100
END

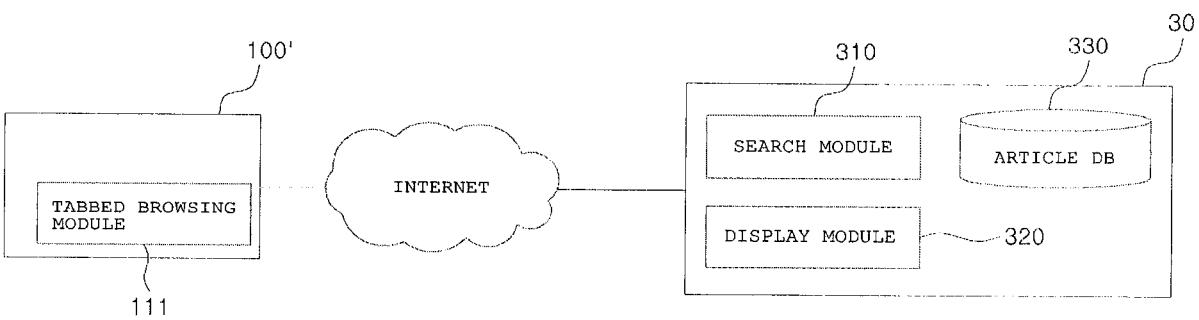
【Figure 4】


10a
10b
10c
10
11
(a)
11a
11b
제목: 네이버 :: 뉴스
주소: http://news.naver.com/news/read.
section_id2=227&menu_id=10
인코딩: ks_c_5601_1987
MIME 형식: text/html
@MY PRODUCT PREVIEW
나의 프리뷰
http://news.naver.com/news/read.php?mode=LSS2D&office_id=025&article_id=00...
(b)

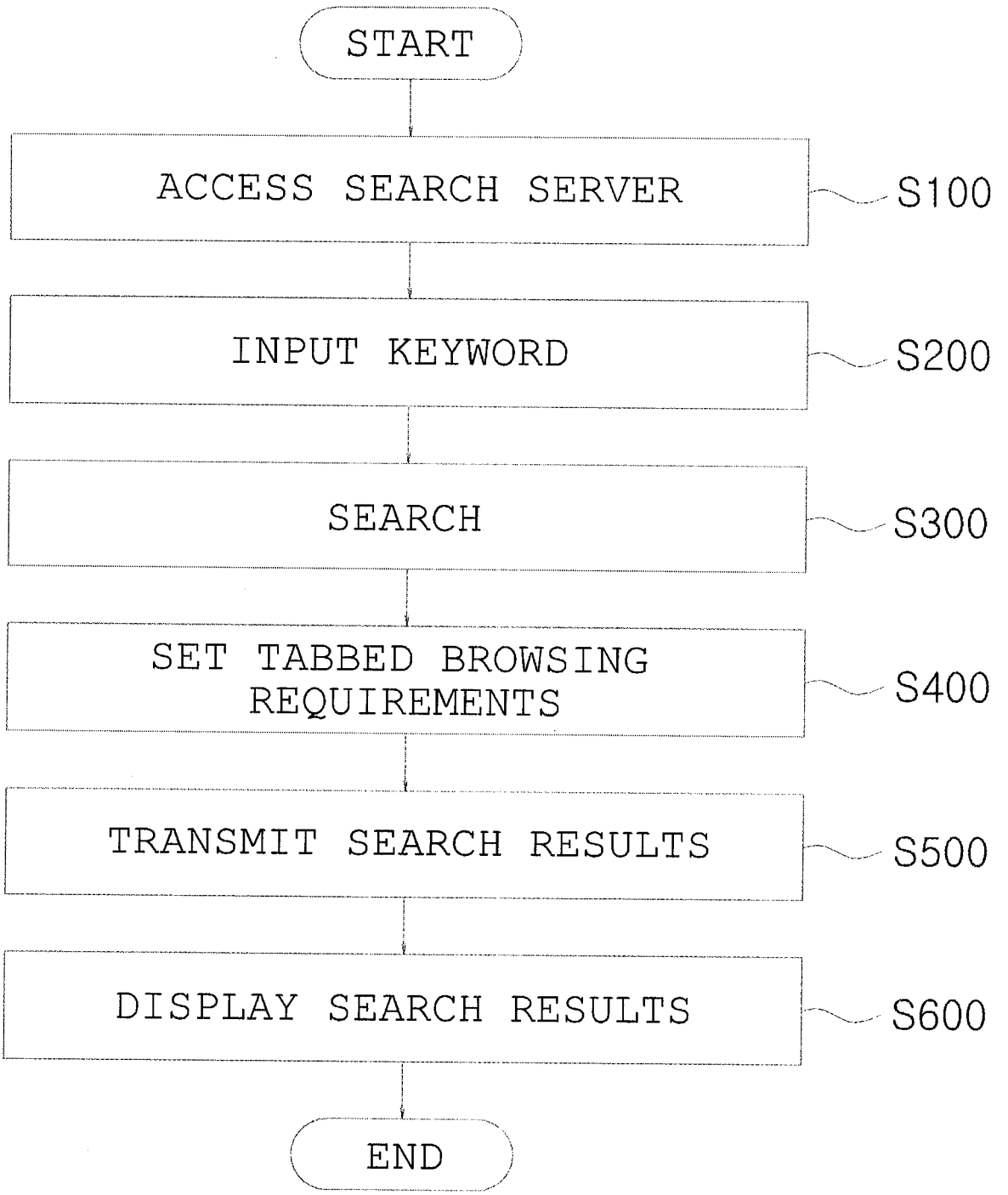
【Figure 5】



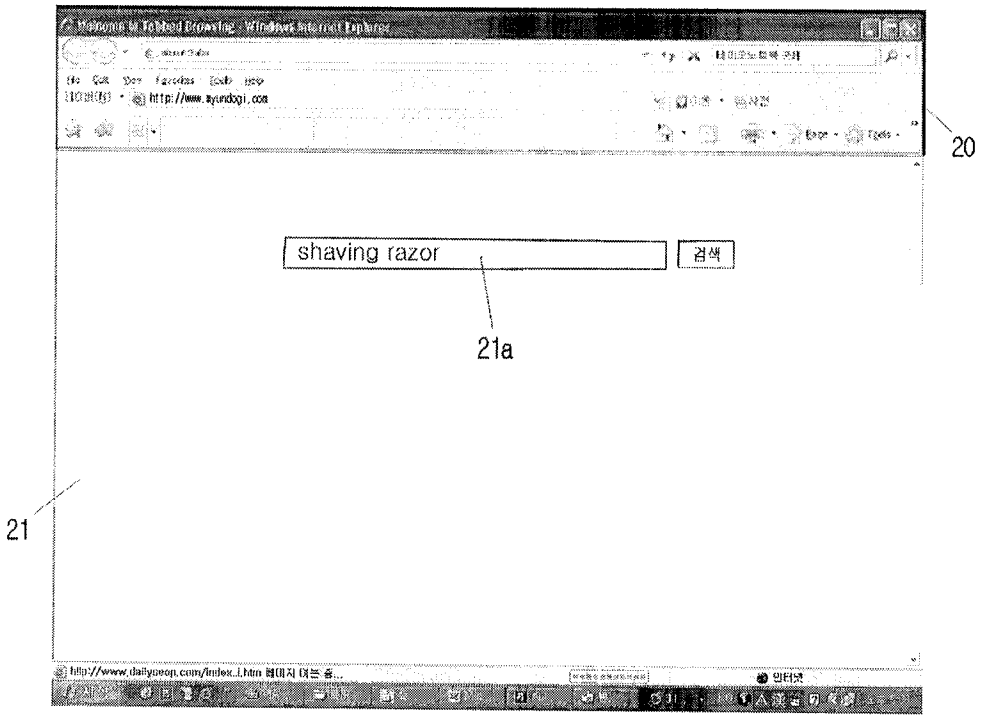
【Figure 6】



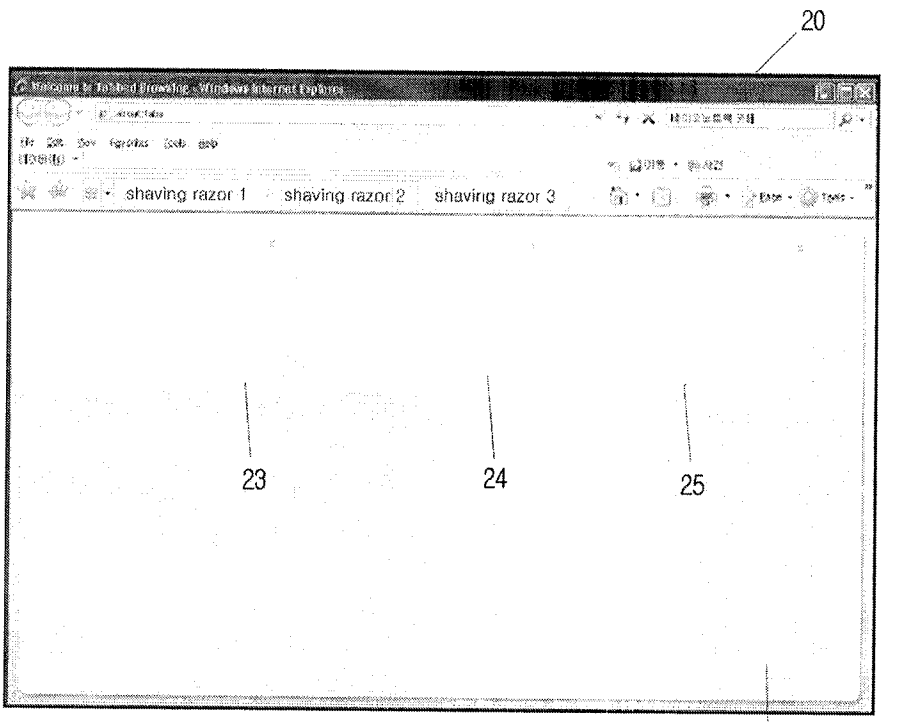
【Figure 7】


START
ACCESS SEARCH SERVER
S100
INPUT KEYWORD
S200
SEARCH
S300
SET TABBED BROWSING REQUIREMENTS
S400
TRANSMIT SEARCH RESULTS
S500
DISPLAY SEARCH RESULTS
S600
END

【Figure 8】


shaving razor
검색
20
21a
21

(a)


20
shaving razor 1
shaving razor 2
shaving razor 3
23
24
25
22

(b)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2007/006771

A. CLASSIFICATION OF SUBJECT MATTER

G06Q 99/00(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 8 G06F19/00, G06F17/00, G06Q10/00~99/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Utility models and applications for Utility models since 1975
Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
PAJ, FPD, USPAT, eKIPASS(KIPO internal) "Keyword: tab, browsing, display, advertisement, keyword, search, and similar terms"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A Y	US 2006/0230356 A1 (SAUVE, AARON J. et al.) 12 OCTOBER 2006 See abstract; claims 1 and 18; figures 5-9.	1-5 6
Y	JP 14-007479 A (NTT COMMUNICATIONS, INC.) 11 JANUARY 2002 See abstract; claims 1-10.	6
A	JP 18-338487 A (LUNASCAPE, INC.) 14 DECEMBER 2006 See abstract; claims 1 and 6; figure 4.	1-5
A	US 2006/0184537 A1 (SAUVE, AARON J. et al.) 17 AUGUST 2006 See abstract; claim 1; figures 3-7.	1-5

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:
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"E" earlier application or patent but published on or after the international filing date
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"O" document referring to an oral disclosure, use, exhibition or other means
"P" document published prior to the international filing date but later than the priority date claimed
"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
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"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
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
23 APRIL 2008 (23.04.2008)	**23 APRIL 2008 (23.04.2008)**

Name and mailing address of the ISA/KR	Authorized officer
Korean Intellectual Property Office Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea	KIM Seung Oh
Facsimile No. 82-42-472-7140	Telephone No. 82-42-481-8543

Form PCT/ISA/210 (second sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2007/006771

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US2006230356A1	12.10.2006	AU2006234871A1	19.10.2006
		KR1020070116829	11.12.2007
		WO2006110238A2	19.10.2006
		WO2006110238A3	29.11.2007
JP14007479A	11.01.2002	None	
JP18338487A	14.12.2006	None	
US2006184537A1	17.08.2006	None	