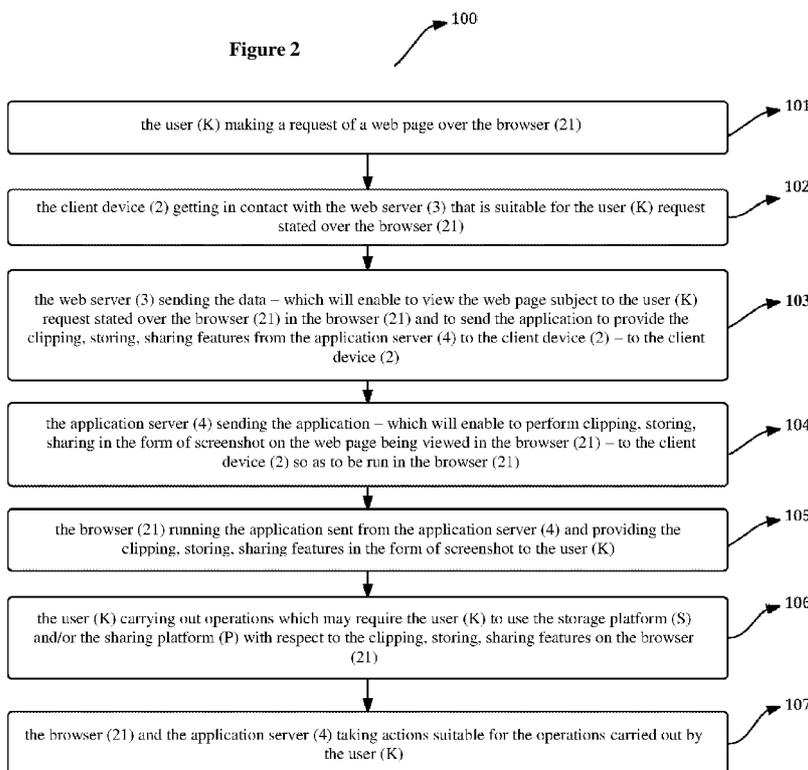




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[Continued on nextpage]

(54) **Title:** A SYSTEM AND METHOD FOR CAPTURING, STORING, SHARING PAGE CONTENTS IN THE FORM OF SCREENSHOT



(57) **Abstract:** The present invention relates to a system (1) and method (100) which enables to capture all or part of a web page being viewed in a web browser in the form of a screenshot, to store this screenshot thereby, and to share it by means of various sharing environments without having to install any application or add-in.

WO2017/111712 AI

SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

— with international search report (Art. 21(3))

## A SYSTEM AND METHOD FOR CAPTURING, STORING, SHARING PAGE CONTENTS IN THE FORM OF SCREENSHOT

### DESCRIPTION

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#### Technical Field

The present invention relates to a system and method which enables to capture all or part of a web page being viewed in a web browser in the form of a screenshot, to  
10 store this screenshot thereby, and to share it by means of various sharing environments without having to install any application or add-in.

#### Background of the Invention

15 Today amount of contents created on Internet, provided to users and viewed by users continuously increase. Users not only view the contents provided in this way; but also they sometimes want to use all or part of these contents later, store them in order to view again, and sometimes share all or part of these contents with particular persons in private or generally over a social media sharing platform as well.

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In the state of the art, users save all of a webpage or capture screenshot of what appears on the screen at that moment by using the function of capturing screenshot which is provided as resident inside the operating system being used by them for the purpose of meeting these types of requests. The web pages stored by these types of  
25 storing operations are kept in the local storage unit of the device used by the users; sometimes, these web pages cannot be completely viewed in the local storage unit because of the technology used from the web page in the operation of storing web page. In addition to this, features such as the users can access contents such as these web pages or screenshots - which are kept in the local storage unit - from another  
30 computer and share these contents as soon as they capture them, cannot be obtained with this conventional method. Furthermore, share buttons located in some web pages do not make it possible to share part of the content in that web page or only

that content and they enable to share link address of that page. And in such a case, the user sharing the content cannot lay emphasis on the intended point of the content and the user accessing the web page over the share cannot see the part to be focused in the content, has to view acontextual information such as other connections, advertisements in addition to the content of the web page.

In the state of the art, in addition to these conventional solutions, there are also some solutions running as a separate application which enables to store and share all or part of a web page upon capturing screenshot thereof and which runs as an add-in of a web browser or is installed to the user's device. However, these solutions are the ones which need to be found out and installed by the user manually, can be only run as add-in of certain web browsers, cannot be provided independently of device and browser automatically together with this content when the user views content of a web page.

Considering problems and deficiencies in current solutions on the subject of capturing, storing, sharing page contents in the form of screenshot; it is seen that there is a need for a solution which can be provided together with the content of the web page desired to be viewed by the user, enables users to be able to capture screenshot of all or part of a page and so store it in a cloud storage space, share them via e-mail or in social media sharing environments without having to install any application or add-in.

In an add-in which is called as Awesome Screenshot ([https://chrome.google.com/webstore/detail/awesome-screenshot-screen/nlipoenibbikpbj\\_ki'pfiliegkobl'gpmj](https://chrome.google.com/webstore/detail/awesome-screenshot-screen/nlipoenibbikpbj_ki'pfiliegkobl'gpmj)) included in the state of the art, there are features such that users can capture screenshots of all or part of a webpage, edit these screenshots, take notes on it, store these screenshots in cloud storage spaces or their own devices, share it with others. This add-in is the one which must be installed by the user and it is configured so as to run together with the browser when it runs.

In an add-in which is called as Clipular (<https://chrome.google.com/webstore/detail/clipular-research-save-sh/jrojbgcjbmgcfbgikmbdioggilhjeggp>) included in the state of the art, there are features such that users can capture screenshots of all or part of a webpage, edit  
5 these screenshots, take notes on it, store these screenshots in cloud storage spaces or their own devices, share it in social media. This add-in is the one which must be installed by the user and it is configured so as to run together with the browser when it runs.

10 The product which is called as One Note Clipper (<https://www.onenote.com/clipper>) included in the state of the art discloses an add-in which can be installed on web browsers and enables users to be able to clip part of any web page and store it in cloud storage structures and add a note. This add-in is the one which must be installed by the user and it is configured so as to run together with the browser when  
15 it runs.

The United States patent document no. **US7315848**, an application in the state of the art, discloses a system and method for capturing, storing, sharing, re-displaying a snippet over a web page.

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### **Summary of the Invention**

An objective of the present invention is to realize a system and method which enables to capture all or part of a web page being viewed in a web browser in the  
25 form of a screenshot, to store this screenshot thereby, and to share it by means of various sharing environments without having to install any application or add-in.

### **Detailed Description of the Invention**

30 The "System and Method for Capturing, Storing, Sharing Page Contents in the form of Screenshot" realized to fulfil the objectives of the present invention is shown in the figures attached, in which:

**Figure 1** is a schematic block diagram of the inventive system.

**Figure 2** is a flow chart of the inventive method.

5 The components illustrated in the figure are individually numbered, where the numbers refer to the following:

- 1. System
- 2. Client device
- 10 21. Browser
- 3. Web server
- 4. Application server
  
- K. User
- 15 S. Storage platform
- P. Sharing platform

A system (1) for capturing, storing, sharing page contents in the form of screenshot comprises:

- 20 - at least one client device (2) with which the user (K) interacts; and which can be in communication with the network by connecting to the network;
- at least one browser (21) which runs on the client device (2); enables the client device (2) to communicate with the network in accordance
- 25 with the user (K) requests; views the data received by the client device (2) as a result of its communication with the network in the form of a web page that can be given meaning by the user (K); provides the interface and the infrastructure that will enable the user (K) to carry out operations on this web page; ensures that actions necessary with
- 30 respect to these operations can be taken on the client device (2) and the network;

5 - at least one web server (3) with which the client device (2) establishes connection based upon the request made by the user (K) over the browser (21); wherein the data and the components that will be used for enabling to view the web page in the browser (21) and will be able to trigger connection of the client device (2) to other servers are stored; and which provides these data and these components to the client device (2) so as to be run and viewed in the browser (21) upon request;

10 - at least one application server (4) with which the client device (2) establishes connection after the data sent by the web server (3) to the client device (2) are run in the browser (21); which provides the application - that will enable to perform clipping, storing, sharing in the form of screenshot on the web page being viewed in the browser (21) - to the client device (2) so as to be run in the browser (21); and which takes necessary actions according to the operations that are

15 carried out by the user (K) with respect to the functions of clipping, storing, sharing on the browser (21) and that may be sometimes related to the storage platform (S) and/or the sharing platform (P) as well (Figure 1).

20 The client device (2) is a device with which the user (K) interacts and which can be in communication with the network by connecting to the network.

In different embodiments of the invention, the client device (2) is a desktop or mobile device with computer characteristics which has ability for communication over network and on which applications such as browser (21), etc. can be run.

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The browser (21) is a unit which runs on the client device (2); enables the client device (2) to communicate with the network in accordance with the user (K) requests; views the data received by the client device (2) as a result of its communication with the network in the form of a web page that can be given meaning by the user (K); provides the interface and the infrastructure that will enable the user (K) to carry out operations on this web page; ensures that actions

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necessary with respect to these operations can be taken on the client device (2) and the network. More specifically, the browser (21) is a web browser and it has a structure such that it can run client parts of web applications and can provide interaction with web applications of the user (K).

5

The browser (21) is a unit which indicates the interface members that will enable the user (K) to perform clipping, storing, sharing in the form of screenshot on the web page being viewed. The browser (21) can determine some information that will be displayed on the interface while displaying these said interface members and what are the information that may be requested from the user (for example, input information related to the storage platform (S) and/or the sharing platform (P)), over the data sent from the application server (4) to the client device (2). In addition, the operation of writing this image to the local storage space of the client device (2) is carried out by the browser (21) in the event that the user (K) wants to store the said screenshot in the local storage space of the client device (2).

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The web server (3) is a server with which the client device (2) establishes connection based upon the request made by the user (K) over the browser (21); wherein the data and the components that will be used for enabling to view the web page in the browser (21) and will be able to trigger connection of the client device (2) to other servers are stored; and which provides these data and these components to the client device (2) so as to be run and viewed in the browser (21) upon request.

20

In a preferred embodiment of the invention, the web server (3) is a server which also sends a data or component that enables to send the application - that will enable to perform clipping, storing, sharing in the form of screenshot on the web page being viewed in the browser (21) - to the client device (2) from the application server (4) at the same time so as to be run in the browser (21) while sending the data that will be used for enabling to view the web page in the browser (21) to the client device (2). Thus, when the user (K) wants to view the web page it is ensured that the application that will enable to perform clipping, storing, sharing in the form of

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screenshot on the web page can be run on the browser (21) without the need for any user (K) interaction and action.

5 The application server (4) is a server with which the client device (2) establishes connection after the data sent by the web server (3) to the client device (2) are run in the browser (21); which provides the application - that will enable to perform clipping, storing, sharing in the form of screenshot on the web page being viewed in the browser (21) - to the client device (2) so as to be run in the browser (21); and which takes necessary actions according to the operations that are carried out by the user (K) with respect to the functions of clipping, storing, sharing on the browser 10 (21) and that may be sometimes related to the storage platform (S) and/or the sharing platform (P) as well.

15 The application server (4) organizes operations of creating account, logging in and signing on, storing the said screenshots with respect to this if the user (K) wants to store the captured screenshots under an account and on the application server (4); directs the user (K) by means of the browser (21) for these operations and carries out the operations.

20 The application server (4) also organizes setups of storing and/or sharing with respect to these operations if the user (K) wants to store the captured screenshots by means of a storage platform (S) or share them by means of a sharing platform (P); directs the user (K) by means of the browser (21) for these operations.

25 In one embodiment of the invention, the application server (4) is also a server which is in communication with the client device (2) such that it will enable the users (K) to view the screenshots captured in the past and the operations carried out with respect to them in the form of lists by means of the browser (21).

30 In one embodiment of the invention, the application server (4) is also a server which is configured such that it can make sense of the screenshots captured by the user (K)

over web pages by evaluating them and thus it can determine interests of the user (K) by using the algorithms included in the state of the art.

- A method (100) for capturing, storing, sharing page contents in the form of screenshot comprising steps of:
- 5 - the user (K) making a request of a web page over the browser (21) (101);
  - the client device (2) getting in contact with the web server (3) that is suitable for the user (K) request stated over the browser (21) (102);
  - 10 - the web server (3) sending the data - which will enable to view the web page subject to the user (K) request stated over the browser (21) in the browser (21) and to send the application to provide the clipping, storing, sharing features from the application server (4) to the client device (2) - to the client device (2) (103);
  - 15 - the application server (4) sending the application - which will enable to perform clipping, storing, sharing in the form of screenshot on the web page being viewed in the browser (21) - to the client device (2) so as to be run in the browser (21) (104);
  - 20 - the browser (21) running the application sent from the application server (4) and providing the clipping, storing, sharing features in the form of screenshot to the user (K) (105);
  - the user (K) carrying out operations which may require the user (K) to use the storage platform (S) and/or the sharing platform (P) with respect to the clipping, storing, sharing features on the browser (21) (106);
  - 25 - the browser (21) and the application server (4) taking actions suitable for the operations carried out by the user (K) (107) (Figure 2).

Within these basic concepts, it is possible to develop a great variety of embodiments of the inventive "System and Method for Capturing, Storing, Sharing Page Contents in the form of Screenshot (1)"; it cannot be limited to the examples disclosed herein  
30 and it is essentially according to the claims.

## CLAIMS

1. A system (1) for capturing, storing, sharing page contents in the form of screenshot **comprising:**
- 5       -     at least one client device (2) with which the user (K) interacts; and which can be in communication with the network be connecting to the network;
- at least one browser (21) which runs on the client device (2); enables the client device (2) to communicate with the network in accordance with the user (K) requests; views the data received by the client device
- 10       (2) as a result of its communication with the network in the form of a web page that can be given meaning by the user (K); provides the interface and the infrastructure that will enable the user (K) to carry out operations on this web page; ensures that actions necessary with respect to these operations can be taken on the client device (2) and the
- 15       network;
- at least one web server (3);
- at least one application server (4);
- and characterized by**
- at least one web server (3) with which the client device (2) establishes
- 20       connection based upon the request made by the user (K) over the browser (21); wherein the data and the components that will be used for enabling to view the web page in the browser (21) and will be able to trigger connection of the client device (2) to other servers are stored; and which provides these data and these components to the client
- 25       device (2) so as to be run and viewed in the browser (21) upon request;
- at least one application server (4) with which the client device (2) establishes connection after the data sent by the web server (3) to the client device (2) are run in the browser (21); which provides the application - that will enable to perform clipping, storing, sharing in
- 30       the form of screenshot on the web page being viewed in the browser (21) - to the client device (2) so as to be run in the browser (21); and which takes necessary actions according to the operations that are

carried out by the user (K) with respect to the functions of clipping, storing, sharing on the browser (21) and that may be sometimes related to the storage platform (S) and/or the sharing platform (P) as well.

- 5     **2.** A system (1) according to Claim 1, **characterized** by the browser (21) which indicates the interface members that will enable the user (K) to perform clipping, storing, sharing in the form of screenshot on the web page being viewed.
- 10     **3.** A system (1) according to Claim 2, **characterized** by the browser (21) which determines some information that will be displayed on the interface while displaying the interface members and what are the information that may be requested from the user over the data sent from the application server (4) to the client device (2).
- 15     **4.** A system (1) according to Claim 1, **characterized** by the browser (21) which carries out the operation of writing this image to the local storage space of the client device (2) in the event that the user (K) wants to store the said screenshot in the local storage space of the client device (2).
- 20     **5.** A system (1) according to Claim 1, **characterized** by the browser (21) which also sends a data or component that will enable to send the application - which will enable to perform clipping, storing, sharing in the form of screenshot on the web page being viewed in the browser (21) - to the client device (2) from the application server (4) at the same time so as to be run in the browser (21) while
- 25     sending the data that will be used for enabling to view the web page in the browser (21) to the client device (2).
- 30     **6.** A system (1) according to Claim 1, **characterized** by the application server (4) (21) which is configured such that it will organize operations of creating account, logging in and signing on, storing the said screenshots with respect to this if the user (K) wants to store the captured screenshots under an account and

on the application server (4); direct the user (K) by means of the browser (21) for these operations and carry out the operations.

7. A system (1) according to Claim 1, **characterized by** the application server (4) (21) which is configured such that it will organize setups of storing and/or sharing with respect to these operations if the user (K) wants to store the captured screenshots by means of a storage platform (S) or share them by means of a sharing platform (P); direct the user (K) by means of the browser (21) for these operations.
8. A system (1) according to Claim 1, **characterized by** the application server (4) (21) which is in communication with the client device (2) such that it will enable the users (K) to view the screenshots captured in the past and the operations carried out with respect to them in the form of lists by means of the browser (21).
9. A system (1) according to Claim 1, **characterized by** the application server (4) which is configured such that it can make sense of the screenshots captured by the user (K) over web pages by evaluating them and thus it can determine interests of the user (K).
10. A method (100) for capturing, storing, sharing page contents in the form of screenshot **characterized by** steps of:
- the user (K) making a request of a web page over the browser (21) (101);
  - the client device (2) getting in contact with the web server (3) that is suitable for the user (K) request stated over the browser (21) (102);
  - the web server (3) sending the data - which will enable to view the web page subject to the user (K) request stated over the browser (21) in the browser (21) and to send the application to provide the clipping, storing, sharing features from the application server (4) to the client device (2) - to the client device (2) (103);

- the application server (4) sending the application - which will enable to perform clipping, storing, sharing in the form of screenshot on the web page being viewed in the browser (21) - to the client device (2) so as to be run in the browser (21) (104);
- 5 - the browser (21) running the application sent from the application server (4) and providing the clipping, storing, sharing features in the form of screenshot to the user (K) (105);
- the user (K) carrying out operations which may require the user (K) to use the storage platform (S) and/or the sharing platform (P) with  
10 respect to the clipping, storing, sharing features on the browser (21) (106);
- the browser (21) and the application server (4) taking actions suitable for the operations carried out by the user (K) (107).

Figure 1

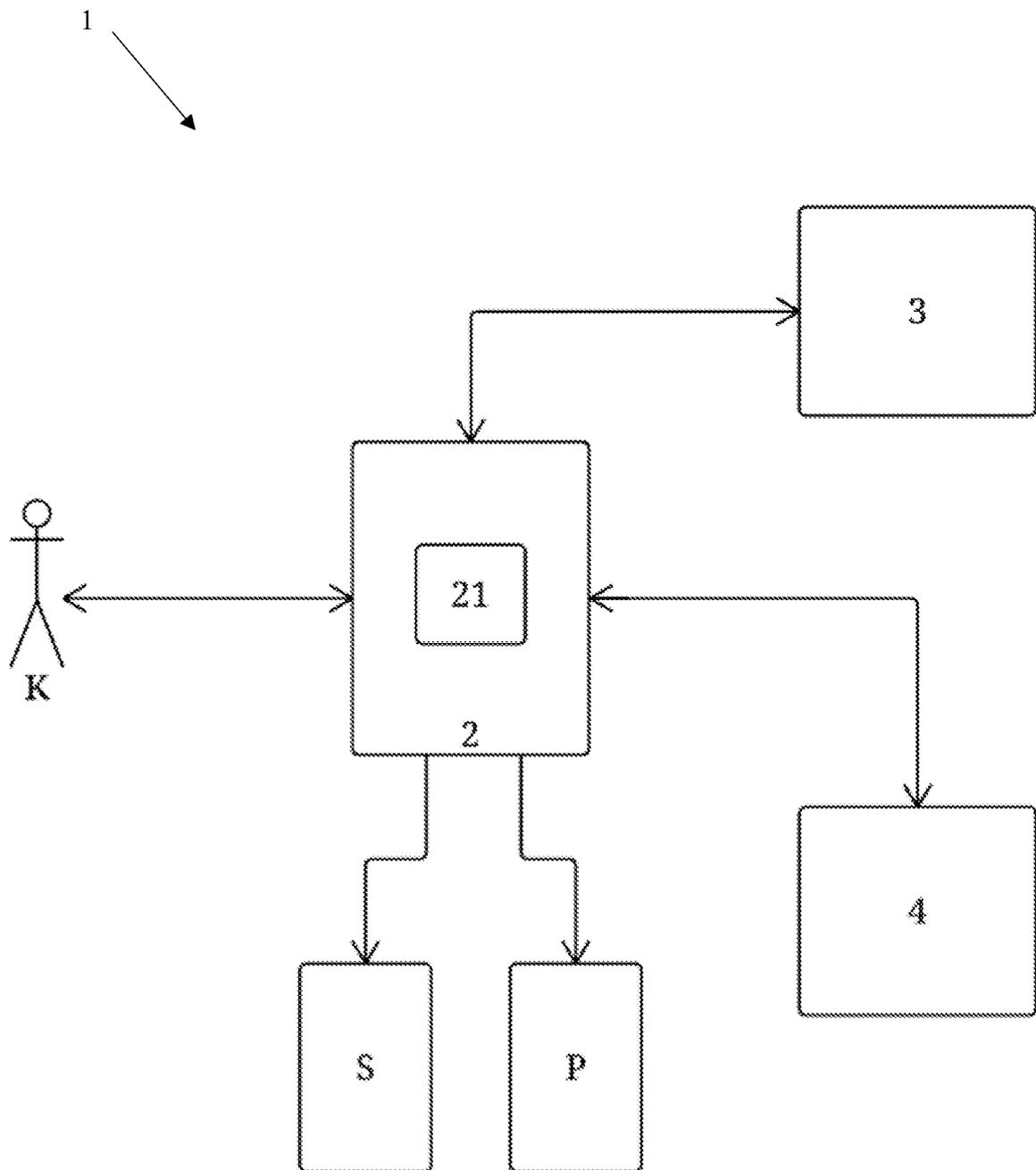
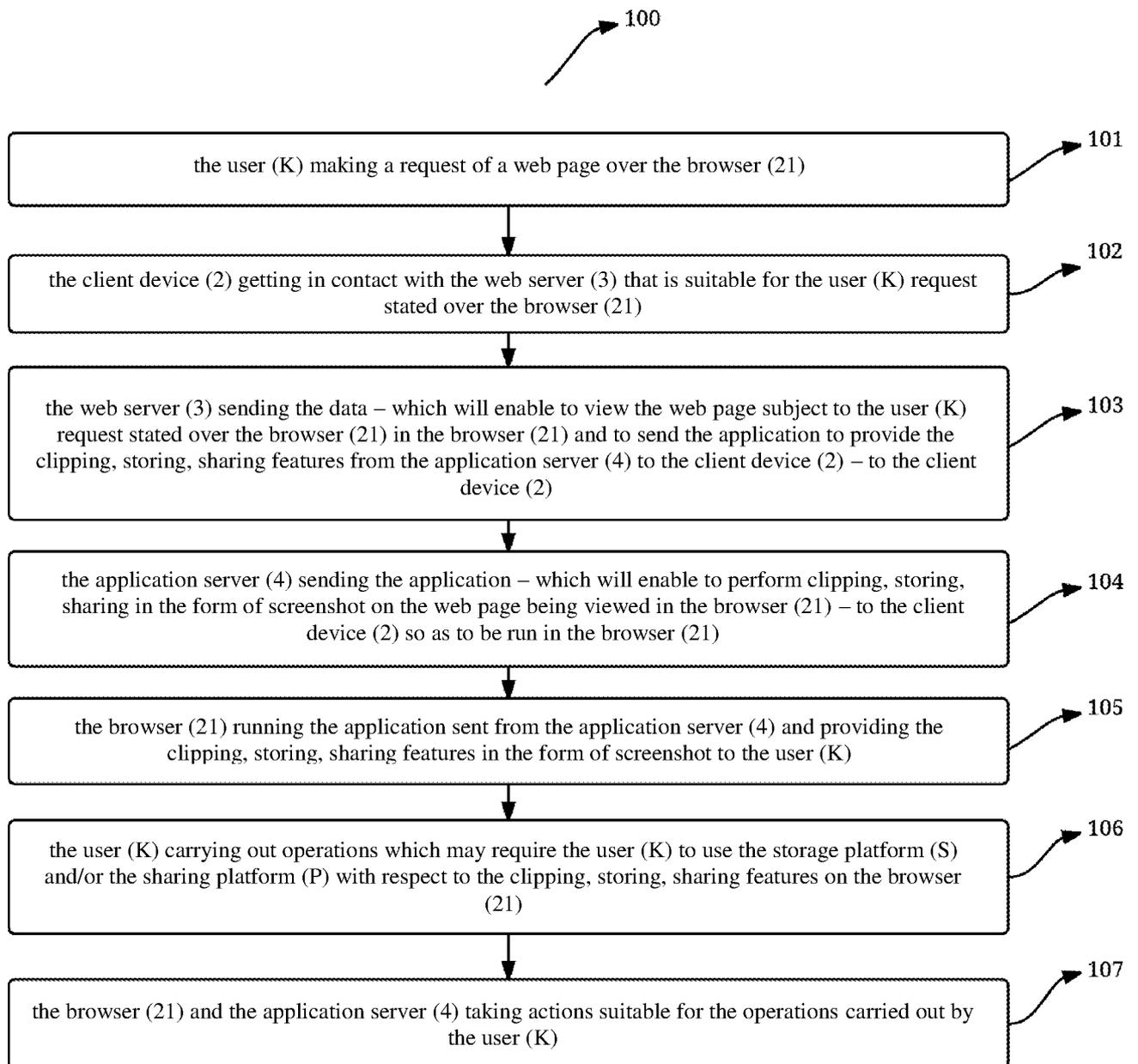


Figure 2



# INTERNATIONAL SEARCH REPORT

International application No  PCT/TR2015/000375
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<b>A. CLASSIFICATION OF SUBJECT MATTER</b>				
INV. G96F17/30 G06F3/0484 ADD.				
According to International Patent Classification (IPC) or to both national classification and IPC				
<b>B. FIELDS SEARCHED</b>				
Minimum documentation searched (classification system followed by classification symbols) G06F				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  EPO-Internal				
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>				
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	US 2015/278180 A1 (NICHOLAS JR GEORGE FRANCIS [US] ET AL) 1 October 2015 (2015-10-01) figures 2-4 paragraph [0031] - paragraph [0078] -----	1-10		
X	US 2015/007104 A1 (ZHU ZHIGANG [CN]) 1 January 2015 (2015-01-01) paragraph [0002]; figures 7-8 paragraph [0004] - paragraph [0005] paragraph [0023] - paragraph [0057] -----  -/--	1-10		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <span style="margin-left: 100px;"><input checked="" type="checkbox"/> See patent family annex.</span>				
* Special categories of cited documents : <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none; vertical-align: top;">                 "A" document defining the general state of the art which is not considered to be of particular relevance                  "E" earlier application or patent but published on or after the international filing date                  "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)                  "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             </td> <td style="width: 50%; border: none; vertical-align: top;">                 "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                  "&amp;" document member of the same patent family             </td> </tr> </table>			"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "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) "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
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "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) "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			
30 August 2016	12/09/2016			
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer  Chinzer, Azzurra			

INTERNATIONAL SEARCH REPORT

International application No  
PCT/TR2015/O00375

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>Anonymous: "Using FireShot Pro" , , 17 December 2015 (2015-12-17) , XP055298362, Retrieved from the Internet: URL: https://web.archive.org/web/2015121723 2359/http://getf i reshot.com/downloads/manu al .pdf [retrieved on 2016-08-29] page 3 - page 6 page 10 - page 13 page 26 - page 29 -----</p>	1-10
X	<p>Anonymous: "Pixt i ck - Web app for screenshot capture, image annotati on, edi ting and publ i shing" , , 22 August 2013 (2013-08-22) , XP055298694, Retrieved from the Internet: URL: https://web.archive.org/web/2013082206 4559/http ://www. pi xti ck.com/i ndex .html [retrieved on 2016-08-30] the whole document -----</p>	1-10
A	<p>US 7 315 848 B2 (PEARSE AARON [AU] ET AL) 1 January 2008 (2008-01-01) cited in the appl ication col umn 1, l ine 33 - l ine 35; figure 11 col umn 1, l ine 59 - l ine 65 col umn 2, l ine 26 - column 5, l ine 31 col umn 6, l ine 58 - column 8, l ine 39 -----</p>	1-10
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