

**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference NETZ023-PCT	<b>FOR FURTHER ACTION</b>		See item 4 below
International application No. PCT/US2018/015913	International filing date ( <i>day/month/year</i> ) 30 January 2018 (30.01.2018)	Priority date ( <i>day/month/year</i> ) 30 January 2017 (30.01.2017)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant NETZYN, INC.			

<p>1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).</p> <p>2. This REPORT consists of a total of 9 sheets, including this cover sheet.</p> <p>In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.</p>																								
<p>3. This report contains indications relating to the following items:</p> <table> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. I</td> <td>Basis of the report</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. II</td> <td>Priority</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. III</td> <td>Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. IV</td> <td>Lack of unity of invention</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>Box No. V</td> <td>Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VI</td> <td>Certain documents cited</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VII</td> <td>Certain defects in the international application</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Box No. VIII</td> <td>Certain observations on the international application</td> </tr> </table> <p>4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).</p>	<input checked="" type="checkbox"/>	Box No. I	Basis of the report	<input type="checkbox"/>	Box No. II	Priority	<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	<input type="checkbox"/>	Box No. IV	Lack of unity of invention	<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	<input type="checkbox"/>	Box No. VI	Certain documents cited	<input type="checkbox"/>	Box No. VII	Certain defects in the international application	<input type="checkbox"/>	Box No. VIII	Certain observations on the international application
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<input type="checkbox"/>	Box No. VIII	Certain observations on the international application																						

	Date of issuance of this report 30 July 2019 (30.07.2019)
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## PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

To: H. DALE LANGLEY JR.  
1803 WEST AVENUE  
AUSTIN, TX 78701

# PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing  
(day/month/year)

12 APR 2018

Applicant's or agent's file reference  
NETZ023-PCT

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

PCT/US 18/15913

International filing date (day/month/year)

30 January 2018 (30.01.2018)

Priority date (day/month/year)

30 January 2017 (30.01.2017)

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

IPC(8) - G06F 15/16 (2018.01)

CPC - H04L 29/06047, H04L 29/08072, H04L 29/06, H04L 29/0809, G06Q 30/02

Applicant NETZYN, INC.

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step and industrial applicability; citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

Name and mailing address of the ISA/US  
Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450, Alexandria, Virginia 22313-1450  
Facsimile No. 571-273-8300

Date of completion of this opinion

21 March 2018

Authorized officer

Lee W. Young

PCT Helpdesk: 571-272-4300  
PCT OSP: 571-272-7774

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 18/15913

## Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:
  - the international application in the language in which it was filed.
  - a translation of the international application into \_\_\_\_\_ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
2.  This opinion has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a)).
3.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, this opinion has been established on the basis of a sequence listing:
  - a.  forming part of the international application as filed:
    - in the form of an Annex C/ST.25 text file.
    - on paper or in the form of an image file.
  - b.  furnished together with the international application under PCT Rule 13ter.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
  - c.  furnished subsequent to the international filing date for the purposes of international search only:
    - in the form of an Annex C/ST.25 text file (Rule 13ter.1(a)).
    - on paper or in the form of an image file (Rule 13ter.1(b) and Administrative Instructions, Section 713).
4.  In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
5. Additional comments:

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	None	YES
	Claims	1-14	NO
Inventive step (IS)	Claims	None	YES
	Claims	1-14	NO
Industrial applicability (IA)	Claims	1-14	YES
	Claims	None	NO

2. Citations and explanations:

Claims 1-14 lack novelty under PCT Article 33(2) as being anticipated by US 2006/0288306 A1 to Mahajan et al. (hereinafter Mahajan).

As per claim 1, Mahajan discloses a system, comprising:

a server computer (para [0009] "Remote terminal sessions involve a first remote machine acting as a server configured to remote data to a second local machine acting as a client"); an application unit of the server computer (para [0009] "Applications operating on the remote machine can generate server application graphical windows. The remote terminal session is configured to enable output or graphics of the server application graphical window(s) to be forwarded to the local machine."); a user device communicatively connected to the server computer (para [0009] "Remote terminal sessions involve a first remote machine acting as a server configured to remote data to a second local machine acting as a client"); a transformer of the user device (para [0021] "Local machine 104A includes a client remote application manager 710, and may include one or more client applications 712 operating on a client operating system (OS) 714.", para [0026] "The client remote application manager is also configured to cause a proxy graphical window 112A to be generated on local machine 104A and to cause the representation of the server application graphical window 110A to be painted over the proxy graphical window 112A in the form of a remotely generated application graphical window 116A."); wherein the server computer receives input from the user device, processes the application unit with the input, and sends tags and processed data to the user device, the tags relate to the input for processing (para [0031] "in this instance, the server remote application manager 702 is configured to determine whether the user command relates to a window/resize operation relative to a graphical window involved in the remote terminal session. Once a determination is made that a move/resize command is being initiated, the server remote application manager 702 takes an action based on the user selected graphical window move/resize mode. In this particular implementation, if the move/resize mode is full-image, then server remote application manager 702 handles the command at the server and updates the server application graphical window 110A accordingly. As the server application graphical window is updated, corresponding representations are sent to the client, and the representations are manifested as an updated remotely generated application graphical window 116A. The size or location of the proxy graphical window 112A is adjusted to correspond to the updated remotely generated application graphical window 116A."); wherein the transformer of the user device compares the tags to new input to the user device, and transforms the processed data received from the server computer to transformed data, and the user device outputs the transformed data (para [0031]-[0032]).

As per claim 2, Mahajan further discloses wherein the user device includes a display for output of the transformed data (para [0015], [0064]).

As per claim 3, Mahajan further discloses wherein the user device includes a processor, memory, an input device and a display for output of the transformed data (para [0059]-[0060], [0063]-[0064]).

As per claim 4, Mahajan further discloses wherein the server computer includes a processor and memory (para [0059]-[0060]).

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## Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:  
Box V, 2: Citations and Explanations

As per claim 5, Mahajan discloses a method of operations of a display-server computing system, comprising: delivering input by a display device to a server computer over a communications network (para [0069] "At block 1102, the process detects a user command to modify a remotely generated application graphical window in a remote terminal session."); processing an application unit of the server computer with the input, responsive to the step of inputting (para [0069] "At block 1102, the process detects a user command to modify a remotely generated application graphical window in a remote terminal session. A remote terminal session can provide remote application capabilities. The remote terminal session serves to remote an application graphical window from a first or server machine to a second or client machine."); outputting a result of the processing, together with tags indicative of the input (para [0031] "In this instance, the server remote application manager 702 is configured to determine whether the user command relates to a window/resize operation relative to a graphical window involved in the remote terminal session. Once a determination is made that a move/resize command is being initiated, the server remote application manager 702 takes an action based on the user selected graphical window move/resize mode. In this particular implementation, if the move/resize mode is full-image, then server remote application manager 702 handles the command at the server and updates the server application graphical window 110A accordingly. As the server application graphical window is updated, corresponding representations are sent to the client, and the representations are manifested as an updated remotely generated application graphical window 116A. The size or location of the proxy graphical window 112A is adjusted to correspond to the updated remotely generated application graphical window 116A."); delivering the result, together with the tags, by the server computer to the display device over the communications network (para [0040] "At step 818, the process sends the graphical windows parameters from the server side to the client side. In this particular configuration, the graphical window parameters are sent from server remote application manager 702 to the client remote application manager 710."); receiving the result and the tags by the display device (para [0076] "At block 1112, the process initiates graphical window move/resize on the client machine's proxy graphical window. In one implementation, the client receives move/resize start information from the server machine and starts a corresponding move/resize on the proxy graphical window of the remote application."); receiving new input to the display device prior to receiving the result and the tags by the display device (para [0076] "The manner in which the graphical window move/resize is started can depend on how the user issued move/resize command was started originally. For instance, if the user started move/resize utilizing a system menu, then a system command message can be posted to the proxy graphical window with an appropriate system-command. For mouse initiated move/resize, the client performs the corresponding action on the proxy graphical window."); processing a transform of the display device by comparing the tags to the new input to obtain a transformed result (para [0031]-[0032] "in this instance, the server remote application manager 702 is configured to determine whether the user command relates to a window/resize operation relative to a graphical window involved in the remote terminal session. Once a determination is made that a move/resize command is being initiated, the server remote application manager 702 takes an action based on the user selected graphical window move/resize mode. In this particular implementation, if the move/resize mode is full-image, then server remote application manager 702 handles the command at the server and updates the server application graphical window 110A accordingly. As the server application graphical window is updated, corresponding representations are sent to the client, and the representations are manifested as an updated remotely generated application graphical window 116A. The size or location of the proxy graphical window 112A is adjusted to correspond to the updated remotely generated application graphical window 116A.");

As per claim 6, Mahajan further discloses outputting the transformed result by the display device (para [0015], [0064]).

As per claim 7, Mahajan further discloses wherein the input is a mouse click and the new input is another mouse click (para [0012]-[0014], [0029]).

As per claim 8, Mahajan further discloses wherein the input includes data of a camera of the display device (para [0012]).

As per claim 9, Mahajan further discloses wherein the input includes data of a sensor of the display device (para [0012]).

-Continuation in supplemental box-

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**Supplemental Box**

**In case the space in any of the preceding boxes is not sufficient.**

Continuation of:  
Box V, 2: Citations and Explanations

As per claim 10, Mahajan discloses a system for communicating with a user device over a communications network, comprising: a processor (para [0059] "The components of first machine 1001 can include, but are not limited to, one or more processors 1004 (e.g., any of microprocessors, controllers, and the like)", para [0065] "The second machine 1002 is illustrated as a portable computer that can include many or all of the elements and features described herein relative to first machine 1001."); an application unit communicatively connected to the processor for processing by the processor (para [0021] "Remote machine 102A includes a server remote application manager 702, a graphical windows manager 704, and one or more server applications 706 operating on a server operating system (OS) 708."); a network interface device communicatively connected to the processor and the communications network (para [0021] "System 100A is configured to support a remote terminal session between a remote machine 102A and a local machine 104A over a network 106A.", para [0066] "Logical connections between first machine 1001 and the second machine 1002 are depicted as a local area network (LAN) 1050 and a general wide area network (WAN) 1052."); a memory communicatively connected to the processor, the memory includes instruction for causing the processor to (para [0060] "The system memory 1006 includes computer-readable media in the form of Volatile memory, such as random access memory (RAM) 1010, and/or non-volatile memory, such as read only memory (ROM) 1012"); receive input from the user device (para [0069] "At block 1102, the process detects a user command to modify a remotely generated application graphical window in a remote terminal session. A remote terminal session can provide remote application capabilities. The remote terminal session serves to remote an application graphical window from a first or server machine to a second or client machine."); process the application unit to obtain results (para [0031] "In this instance, the server remote application manager 702 is configured to determine whether the user command relates to a window/resize operation relative to a graphical window involved in the remote terminal session. Once a determination is made that a move resize command is being initiated, the server remote application manager 702 takes an action based on the user selected graphical window move/resize mode. In this particular implementation, if the move/resize mode is full-image, then server remote application manager 702 handles the command at the server and updates the server application graphical window 110A accordingly. As the server application graphical window is updated, corresponding representations are sent to the client, and the representations are manifested as an updated remotely generated application graphical window 116A. The size or location of the proxy graphical window 112A is adjusted to correspond to the updated remotely generated application graphical window 116A."); and send to the user device over the communications network results of the processing, together with tags, the tags are indicative of the input received (para [0040] "At step 818, the process sends the graphical windows parameters from the server side to the client side. In this particular configuration, the graphical window parameters are sent from server remote application manager 702 to the client remote application manager 710.").

As per claim 11, Mahajan discloses a system for communicating over a communication network with a server computer including an application unit for processing by the server computer, comprising: a processor (para [0059] "The components of first machine 1001 can include, but are not limited to, one or more processors 1004 (e.g., any of microprocessors, controllers, and the like)", para [0065] "The second machine 1002 is illustrated as a portable computer that can include many or all of the elements and features described herein relative to first machine 1001."); a transformer communicatively connected to the processor (para [0021] "Local machine 104A includes a client remote application manager 710, and may include one or more client applications 712 operating on a client operating system (OS) 714.", para [0026] "The client remote application manager is also configured to cause a proxy graphical window 112A to be generated on local machine 104A and to cause the representation of the server application graphical window 110A to be painted over the proxy graphical window 112A in the form of a remotely generated application graphical window 116A."); a network interface device communicatively connected to the processor and the communication network (para [0021] "System 100A is configured to support a remote terminal session between a remote machine 102A and a local machine 104A over a network 106A.", para [0066] "Logical connections between first machine 1001 and the second machine 1002 are depicted as a local area network (LAN) 1050 and a general wide area network (WAN) 1052."); a memory communicatively connected to the processor (para [0060] "The system memory 1006 includes computer-readable media in the form of Volatile memory, such as random access memory (RAM) 1010, and/or non-volatile memory, such as read only memory (ROM) 1012"), the memory includes instruction for causing the processor to: deliver input to the server computer over the network (para [0069] "At block 1102, the process detects a user command to modify a remotely generated application graphical window in a remote terminal session. A remote terminal session can provide remote application capabilities. The remote terminal session serves to remote an application graphical window from a first or server machine to a second or client machine."); receive a processed result from the application unit of the server computer, together with tags, the tags are indicative of input delivered to the server computer (para [0031] "In this instance, the server remote application manager 702 is configured to determine whether the user command relates to a window/resize operation relative to a graphical window involved in the remote terminal session. Once a determination is made that a move resize command is being initiated, the server remote application manager 702 takes an action based on the user selected graphical window move/resize mode. In this particular implementation, if the move/resize mode is full-image, then server remote application manager 702 handles the command at the server and updates the server application graphical window 110A accordingly. As the server application graphical window is updated, corresponding representations are sent to the client, and the representations are manifested as an updated remotely generated application graphical window 116A. The size or location of the proxy graphical window 112A is adjusted to correspond to the updated remotely generated application graphical window 116A."); receive new input to the user device, after delivering input and prior to receiving the processed result (para [0076] "The manner in which the graphical window move/resize is started can depend on how the user issued move/resize command was started originally. For instance, if the user started move/resize utilizing a system menu, then a system command message can be posted to the proxy graphical window with an appropriate system-command. For mouse initiated move/resize, the client performs the corresponding action on the proxy graphical window.");

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**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

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**Supplemental Box**

**In case the space in any of the preceding boxes is not sufficient.**

Continuation of:  
Box V, 2: Citations and Explanations

process the transformer comparing the tags to new input to obtain an updated processed result (para [0031]-[0032]) LIn this instance, the server remote application manager 702 is configured to determine whether the user command relates to a window/resize operation relative to a graphical window involved in the remote terminal session. Once a determination is made that a move/resize command is being initiated, the server remote application manager 702 takes an action based on the user selected graphical window move/resize mode. In this particular implementation, if the move/resize mode is full-image, then server remote application manager 702 handles the command at the server and updates the server application graphical window 110A accordingly. As the server application graphical window is updated, corresponding representations are sent to the client, and the representations are manifested as an updated remotely generated application graphical window 116A. The size or location of the proxy graphical window 112A is adjusted to correspond to the updated remotely generated application graphical window 116A.L).

As per claim 12, Mahajan further discloses wherein the instructions further include: output by the user device of the updated processed result (para [0015], [0031]-[0032]).

As per claim 13, Mahajan discloses a display-server system, comprising: a processor (para [0059] "The components of first machine 1001 can include, but are not limited to, one or more processors 1004 (e.g., any of microprocessors, controllers, and the like)L); an application unit processable by the processor (para [0021] LRemote machine 102A includes a server remote application manager 702, a graphical windows manager 704, and one or more server applications 706 operating on a server operating system (OS) 708.L); a network interface device communicatively connected to the processor and the communication network (para [0021] LSystem 100A is configured to support a remote terminal session between a remote machine 102A and a local machine 104A over a network 106A.L, para [0066] LLogical connections between first machine 1001 and the second machine 1002 are depicted as a local area network (LAN) 1050 and a general wide area network (WAN) 1052.L); a memory communicatively connected to the processor, the memory includes instruction for causing the processor to (para [0060] LThe system memory 1006 includes computer-readable media in the form of Volatile memory, such as random access memory (RAM) 1010, and/or non-volatile memory, such as read only memory (ROM) 1012.L); receive input from the user device over the communication network (para [0069] LAt block 1102, the process detects a user command to modify a remotely generated application graphical window in a remote terminal session. A remote terminal session can provide remote application capabilities. The remote terminal session serves to remote an application graphical window from a first or server machine to a second or client machine.L); process the application unit for the input received to obtain a processed result (para [0031] LIn this instance, the server remote application manager 702 is configured to determine whether the user command relates to a window/resize operation relative to a graphical window involved in the remote terminal session. Once a determination is made that a move/resize command is being initiated, the server remote application manager 702 takes an action based on the user selected graphical window move/resize mode. In this particular implementation, if the move/resize mode is full-image, then server remote application manager 702 handles the command at the server and updates the server application graphical window 110A accordingly. As the server application graphical window is updated, corresponding representations are sent to the client, and the representations are manifested as an updated remotely generated application graphical window 116A. The size or location of the proxy graphical window 112A is adjusted to correspond to the updated remotely generated application graphical window 116A.L); deliver to the user device the processed result, together with tags, the tags are indicative of input received by the server computer (para [0040] LAt step 818, the process sends the graphical windows parameters from the server side to the client side. In this particular configuration, the graphical window parameters are sent from server remote application manager 702 to the client remote application manager 710.L); a user device processor (para [0059] LThe components of first machine 1001 can include, but are not limited to, one or more processors 1004 (e.g., any of microprocessors, controllers, and the like)L, para [0065] LThe second machine 1002 is illustrated as a portable computer that can include many or all of the elements and features described herein relative to first machine 1001.L); a transformer of the user device, processable by the user device processor (para [0021] LLocal machine 104A includes a client remote application manager 710, and may include one or more client applications 712 operating on a client operating system (OS) 714.L, para [0026] LThe client remote application manager is also configured to cause a proxy graphical window 112A to be generated on local machine 104A and to cause the representation of the server application graphical window 110A to be painted over the proxy graphical window 112A in the form of a remotely generated application graphical window 116A.L); a user device network interface device communicatively connected to the application unit over the communication network (para [0021] LSystem 100A is configured to support a remote terminal session between a remote machine 102A and a local machine 104A over a network 106A.L, para [0066] LLogical connections between first machine 1001 and the second machine 1002 are depicted as a local area network (LAN) 1050 and a general wide area network (WAN) 1052.L); a user device memory communicatively connected to the user device processor, the user device memory includes instruction for causing the user device processor to (para [0060] LThe system memory 1006 includes computer-readable media in the form of Volatile memory, such as random access memory (RAM) 1010, and/or non-volatile memory, such as read only memory (ROM) 1012.L, para [0065] LThe second machine 1002 is illustrated as a portable computer that can include many or all of the elements and features described herein relative to first machine 1001.L); communicate data over the communication network to the application unit (para [0069] LAt block 1102, the process detects a user command to modify a remotely generated application graphical window in a remote terminal session. A remote terminal session can provide remote application capabilities. The remote terminal session serves to remote an application graphical window from a first or server machine to a second or client machine.L);

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WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

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## Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Box V, 2: Citations and Explanations

receive the processed result and tags from the processor (para [0040] .At step 818, the process sends the graphical windows parameters from the server side to the client side. In this particular configuration, the graphical window parameters are sent from server remote application manager 702 to the client remote application manager 710.);

communicate additional data over the communication network to the application unit (para [0031] .In this instance, the server remote application manager 702 is configured to determine whether the user command relates to a window/resize operation relative to a graphical window involved in the remote terminal session. Once a determination is made that a move/resize command is being initiated, the server remote application manager 702 takes an action based on the user selected graphical window move/resize mode. In this particular implementation, if the move/resize mode is full-image, then server remote application manager 702 handles the command at the server and updates the server application graphical window 110A accordingly. As the server application graphical window is updated, corresponding representations are sent to the client, and the representations are manifested as an updated remotely generated application graphical window 116A. The size or location of the proxy graphical window 112A is adjusted to correspond to the updated remotely generated application graphical window 116A.); receive input to the user device processor prior to communicating the additional data (para [0076] .The manner in which the graphical window move/resize is started can depend on how the user issued move/resize command was started originally. For instance, if the user started move/resize utilizing a system menu, then a system command message can be posted to the proxy graphical window with an appropriate system-command. For mouse initiated move/resize, the client performs the corresponding action on the proxy graphical window.); and transform by the transformer the additional data based on the input to the user device processor, prior to communicating the additional data (para [0071] .At block 1104, the process determines whether to initiate the user command at a local machine upon which the remotely generated application graphical window is displayed or a remote machine which generated the remotely generated application graphical window. In some implementations, all modifications may be initiated at the server. In other implementations, all modifications may be initiated at the client. Still other implementations, initiate some user modification commands on the server, while user modification commands are initiated at the client..).

As per claim 14, Mahajan discloses a method of operations of a display-server computing system, comprising: delivering input by a display device to a server computer over a communications network (para [0069] .At block 1102, the process detects a user command to modify a remotely generated application graphical window in a remote terminal session. A remote terminal session can provide remote application capabilities. The remote terminal session serves to remote an application graphical window from a first or server machine to a second or client machine.); processing an application unit of the server computer with the input, responsive to the step of inputting (para [0031] .In this instance, the server remote application manager 702 is configured to determine whether the user command relates to a window/resize operation relative to a graphical window involved in the remote terminal session. Once a determination is made that a move/resize command is being initiated, the server remote application manager 702 takes an action based on the user selected graphical window move/resize mode. In this particular implementation, if the move/resize mode is full-image, then server remote application manager 702 handles the command at the server and updates the server application graphical window 110A accordingly. As the server application graphical window is updated, corresponding representations are sent to the client, and the representations are manifested as an updated remotely generated application graphical window 116A. The size or location of the proxy graphical window 112A is adjusted to correspond to the updated remotely generated application graphical window 116A.); outputting a result of the processing, together with tags indicative of the input (para [0031] .In this instance, the server remote application manager 702 is configured to determine whether the user command relates to a window/resize operation relative to a graphical window involved in the remote terminal session. Once a determination is made that a move/resize command is being initiated, the server remote application manager 702 takes an action based on the user selected graphical window move/resize mode. In this particular implementation, if the move/resize mode is full-image, then server remote application manager 702 handles the command at the server and updates the server application graphical window 110A accordingly. As the server application graphical window is updated, corresponding representations are sent to the client, and the representations are manifested as an updated remotely generated application graphical window 116A. The size or location of the proxy graphical window 112A is adjusted to correspond to the updated remotely generated application graphical window 116A.); delivering the result by the server computer to the display device over the communications network, together with the tags (para [0040] .At step 818, the process sends the graphical windows parameters from the server side to the client side. In this particular configuration, the graphical window parameters are sent from server remote application manager 702 to the client remote application manager 710.); receiving the result and the tags by the display device (para [0076] .At block 1112, the process initiates graphical window move/resize on the client machine's proxy graphical window. In one implementation, the client receives move/resize start information from the server machine and starts a corresponding move/resize on the proxy graphical window of the remote application.); receiving new input to the display device prior to receiving the result and the tags by the display device (para [0076] .The manner in which the graphical window move/resize is started can depend on how the user issued move/resize command was started originally. For instance, if the user started move/resize utilizing a system menu, then a system command message can be posted to the proxy graphical window with an appropriate system-command. For mouse initiated move/resize, the client performs the corresponding action on the proxy graphical window.); generating new sensor data of a sensor of the display device, for delivery to the application unit of the server computer for processing (para [0012] .The user can accomplish such a move through various user commands which initiate a graphical window move/resize process. For instance, one type of user command is a system command via a system menu. Other types of user commands which can initiate a graphical window move/resize process can include, Voice recognition, camera based gesture recognition, and keyboard input, among others.); processing a transformer of the display device by comparing the tags to the new input to obtain a transformed result of the new sensor data as transformed sensor data (para [0069] .A proxy window is created on the client machine and display data from the server application graphical window is painted over this proxy window to create the remotely generated application graphical window. Various avenues are available for a user to issue commands relating to modifying a graphical window. For instance, the user may send a window appropriate system-command by using the system menu as should be recognized by the skilled artisan. In another example, the user may press a mouse button on the graphical window's caption or border and then drag the graphical window. Various other examples of user input can include, Voice recognition commands, and camera detected movements of the user, among others.,

-Continuation in supplemental box-



WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US 18/15913

## Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:  
Box V, 2: Citations and Explanations

para [0071] .At block 1104, the process determines whether to initiate the user command at a local machine upon which the remotely generated application graphical window is displayed or a remote machine which generated the remotely generated application graphical window. In some implementations, all modifications may be initiated at the server. In other implementations, all modifications may be initiated at the client. Still other implementations, initiate some user modification commands on the server, while user modification commands are initiated at the client.); communicating the transformed sensor data to the server computer by the display device (para [0070] .In some implementations, user modification commands related to the proxy graphical window are detected at the client machine. In other implementations, user input or commands related to the proxy graphical window are automatically sent to the server machine as part of the remote terminal session..).

Claims 1-14 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.