



Apple Inc. (Petitioner)
v.
SpaceTime3D, Inc. (Patent Owner)
Petitioner's Demonstratives

Case No. IPR2023-00343 and IPR2023-00344
U.S. Patent Nos. 9,304,654 and 9,696,868
Before Hon. Hubert C. Lorin, David C. McKone, and Sheila F. McShane
Administrative Patent Judges



DEMONSTRATIVE EXHIBIT - NOT EVIDENCE

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The '868 & '654 Patents

United States Patent
Bakhash

(12) Patent No.: **US 9,304,654 B2**
(45) Date of Patent: ***Apr. 5, 2016**

US9304654B2

(54) **SYSTEM AND METHOD FOR DISPLAYING A TIMELINE ASSOCIATED WITH A PLURALITY OF APPLICATIONS**

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(72) Inventor: **Erza Eddie Bakhash, New York, NY (US)**

(* *) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 14 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **14,683,142**

(22) Filed: **Sep. 30, 2014**

(65) **Prior Publication Data**
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Related U.S. Application Data
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Continuation-in-part of application No. 12,751,879, filed on Sep. 13, 2005.
Continuation-in-part of application No. 12,751,879, filed on Sep. 13, 2005.

Int. Cl.
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G06F 3/0481 (2013.01)
G06F 3/0483 (2013.01)
G06F 15/229 (2006.01)
G06F 15/228 (2011.01)
G06F 3/0484 (2013.01)

U.S. CL.
G06F 3/0482 (2013.01); G06F 3/0483 (2013.01); G06F 3/0484 (2013.01)

References Cited

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(Continued)

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(74) **Attorney, Agent, or Firm**—Fitzsimmons IP Law

ABSTRACT

Methods and systems are provided for providing an improved three-dimensional graphical user interface. In one embodiment, the method generally comprises: receiving an input from a user to view a three-dimensional virtual space; displaying at least one computer search in response to the received user input. The computing output can be presented in two or more objects within a three-dimensional virtual space display. The objects are displayed in a three-dimensional virtual space display generating a timeline that includes an icon for each object presented within the virtual space. In another embodiment, the method generally comprises: receiving a three-dimensional input from a user to view a three-dimensional virtual space; displaying at least one computer search in response to the received user input. The computing output can be presented in two or more objects within a three-dimensional virtual space display. The objects are displayed in a three-dimensional virtual space display generating a timeline that includes an icon for each object presented within the virtual space.

19 Claims, 30 Drawing Sheets

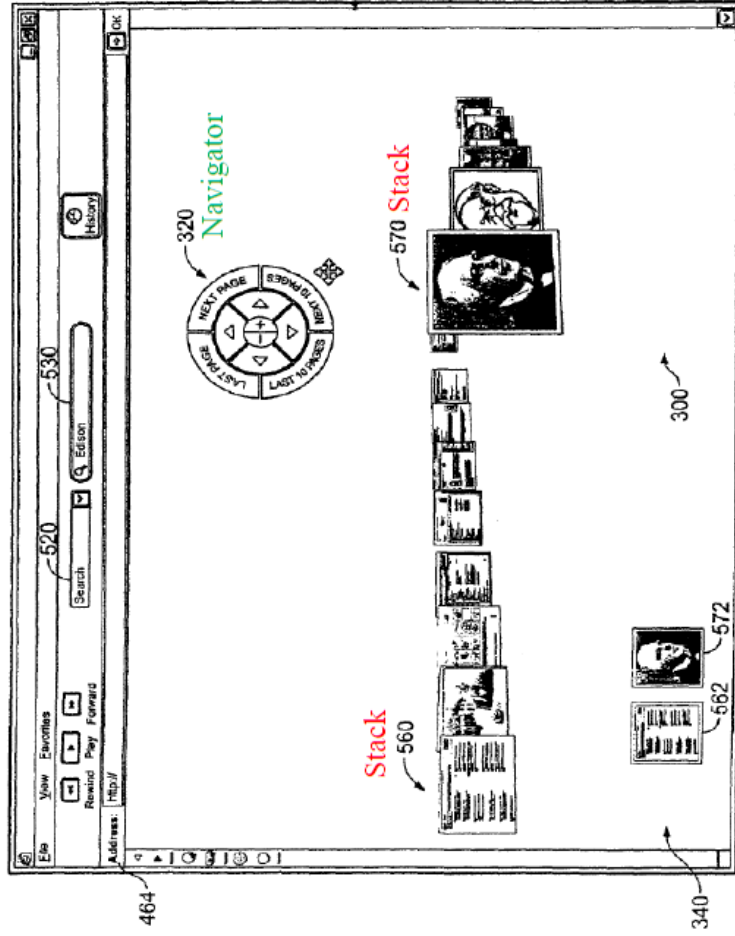


FIG. 16A

868 IPR: APPLE1001 ('868 pat.) FIG. 16A; Petition (Pet.) 8.
654 IPR: APPLE1001 ('654 pat.) FIG. 16A; Petition (Pet.) 9.

654 IPR: APPLE1001, cover.



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The '868 & '654 Patents

United States Patent
Bakhash

(12) Patent No.: **US 9,696,868 B2**
(45) Date of Patent: ***Jul. 4, 2017**

(54) SYSTEM AND METHOD FOR PROVIDING A DIMENSIONAL GRAPHICAL USER INTERFACE

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(72) Inventor: **Eran Eldor, Bakhash, Palo Alto, CA (US)**

(*): **Notice:** Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 356 days.

This patent is subject to a sequent disclaimer.

(21) Appl. No.: **14/014,708**

(22) Filed: **Feb. 5, 2015**

(65) **Prior Publication Data**
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Related U.S. Application Data
(63) Continuation of Application No. 14/505,142, filed on Sep. 30, 2014, now Pat. No. 9,304,654, which is a (Continued)

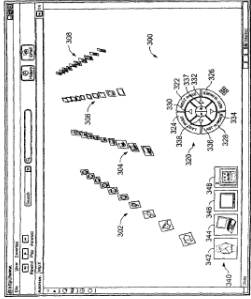
(51) Int. Cl. (2013.01) **G06F 03/01**
G06F 03/04
G06F 03/02 (Continued)

(52) U.S. Cl. (2013.01) **G06F 03/01**
G06F 03/04
G06F 03/02 (Continued)

(53) U.S. Cl. (2013.01) **G06F 03/01**
G06F 03/04
G06F 03/02 (Continued)

(57) **ABSTRACT**
Methods and systems are provided for an improved three-dimensional graphical user interface. In one embodiment, a user interface is provided that displays a plurality of inputs from a user and opening a plurality of applications in response thereto, where the inputs from each application are displayed in a three-dimensional space. The method further comprises allowing a user to switch between the plurality of applications by generating a three-dimensional space. The method further comprises collectively within a three-dimensional space. The user can then interact with a particular application by selecting a three-dimensional space. In one embodiment, the method further comprises replacing the output(s) in two-dimensional space with the output(s) in three-dimensional space with the output from the selected application in two-dimensional space.

20 Claims, 30 Drawing Sheets



868 IPR: APPLE1001, cover.

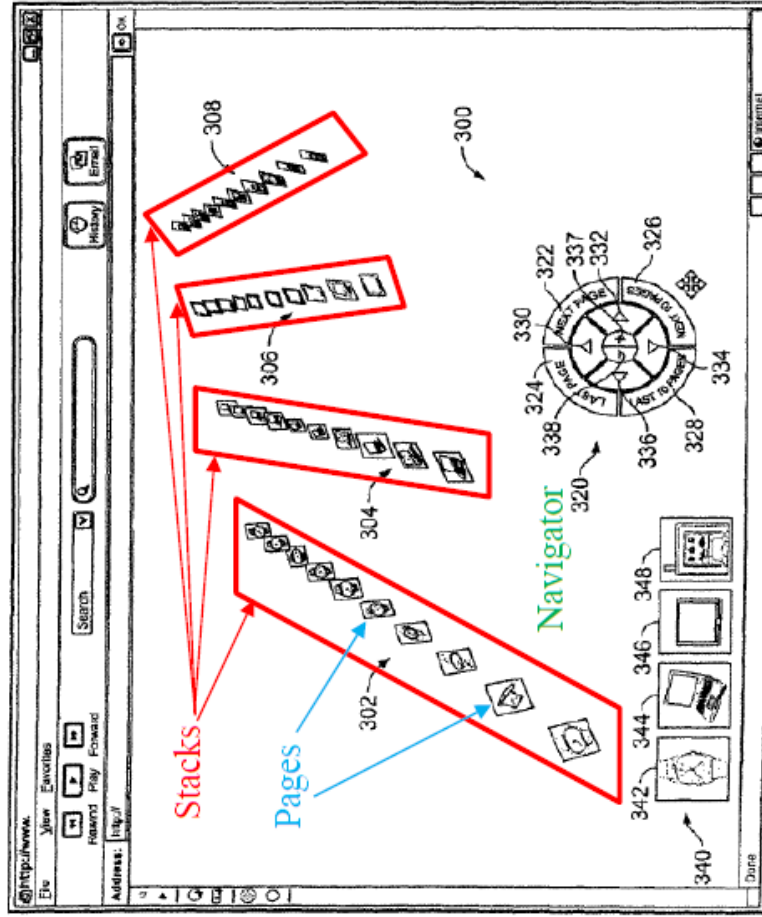


FIG. 9

868 IPR: APPLE1001, FIG. 9; Petition (Pet.), 7.
654 IPR: APPLE1001, FIG. 9; Petition (Pet.), 7.

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The '868 & '654 Patents

In one embodiment, the method further comprises generating a timeline that includes an icon for each object presented within the virtual space, wherein the icons are organized in linear chronological order according to when the objects were presented within the virtual space and displaying the timeline within the virtual space. In another

868 IPR: APPLE1001, 3:11-24; Petition (Pet.) 7.
654 IPR: APPLE1001, 3:5-17; Petition (Pet.) 9.

When the viewpoint of the end user within a virtual space has caused the webpage to be drawn in skew, there will often be a distortion in shape of the normal distribution toward one side or the other. In such a case, the 3D GUI system utilizes the Bind to the HUD feature whereby clicking an icon or bottom (analogous to the minimize in windows operating system environment) triggers a change to the viewpoint of the end user within the virtual space so that the webpage is directly in an end user's visual field, thereby making it easier to interact with. In one embodiment, this is accomplished by

...
ment). As such, an end user can toggle or switch between 2D and 3D for any selectively captured computing output and information (webpages, applications, documents, desktops or anything that can be visualized on a computer) that was drawn within a 3D virtual space at will by using this technique.

868 IPR: APPLE1001, 22:7-30; Pet., 8.
654 IPR: APPLE1001, 21:34-56; Pet., 9-10.



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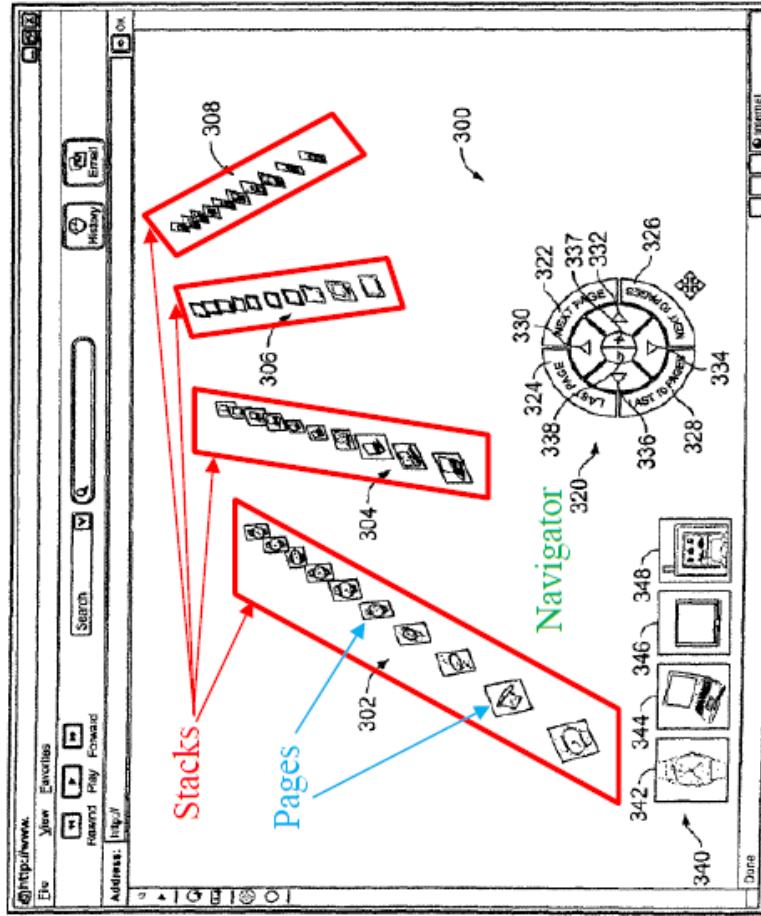


FIG. 9

868 IPR: APPLE1001, FIG. 9; Pet., 7.
654 IPR: APPLE1001, FIG. 9; Pet., 7.

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