



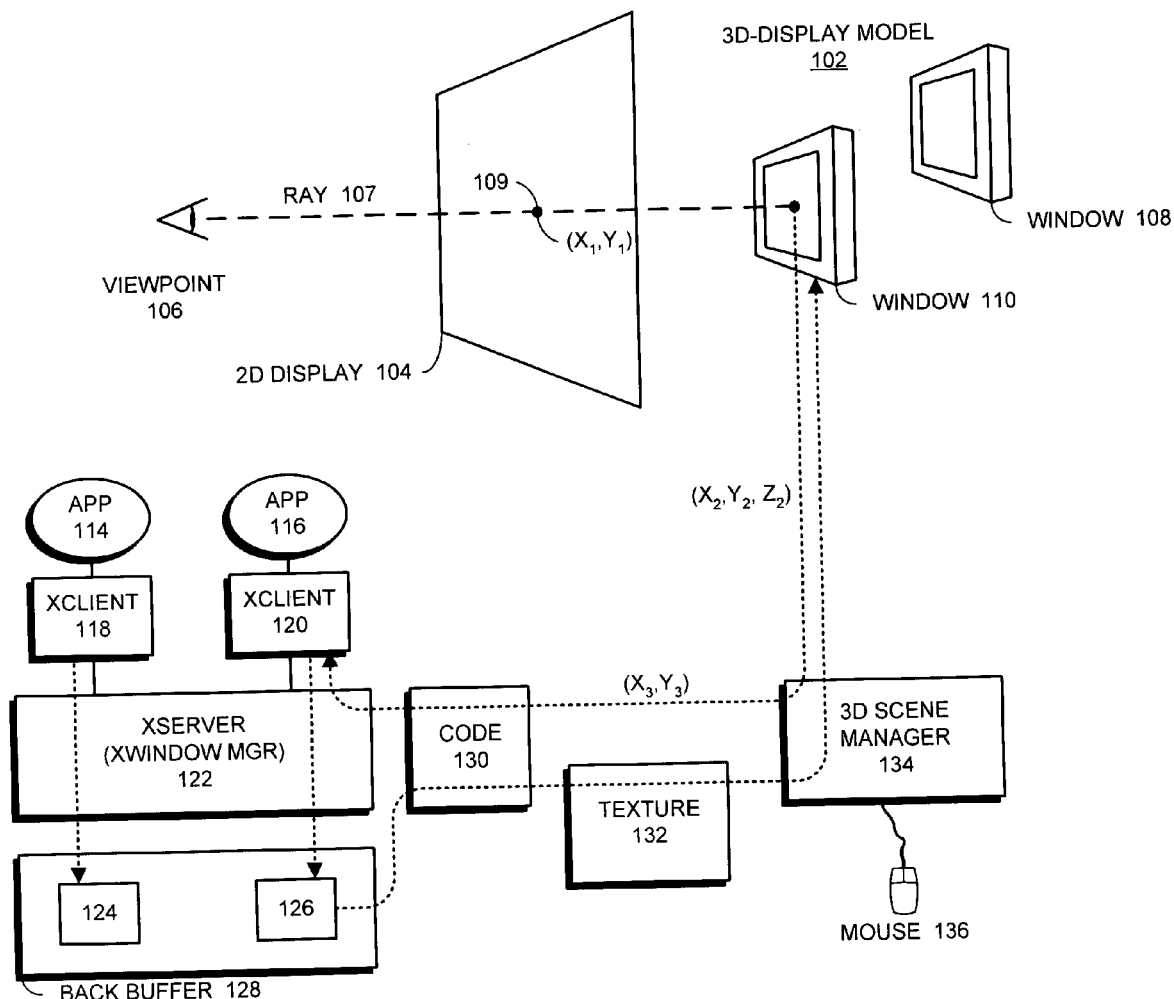
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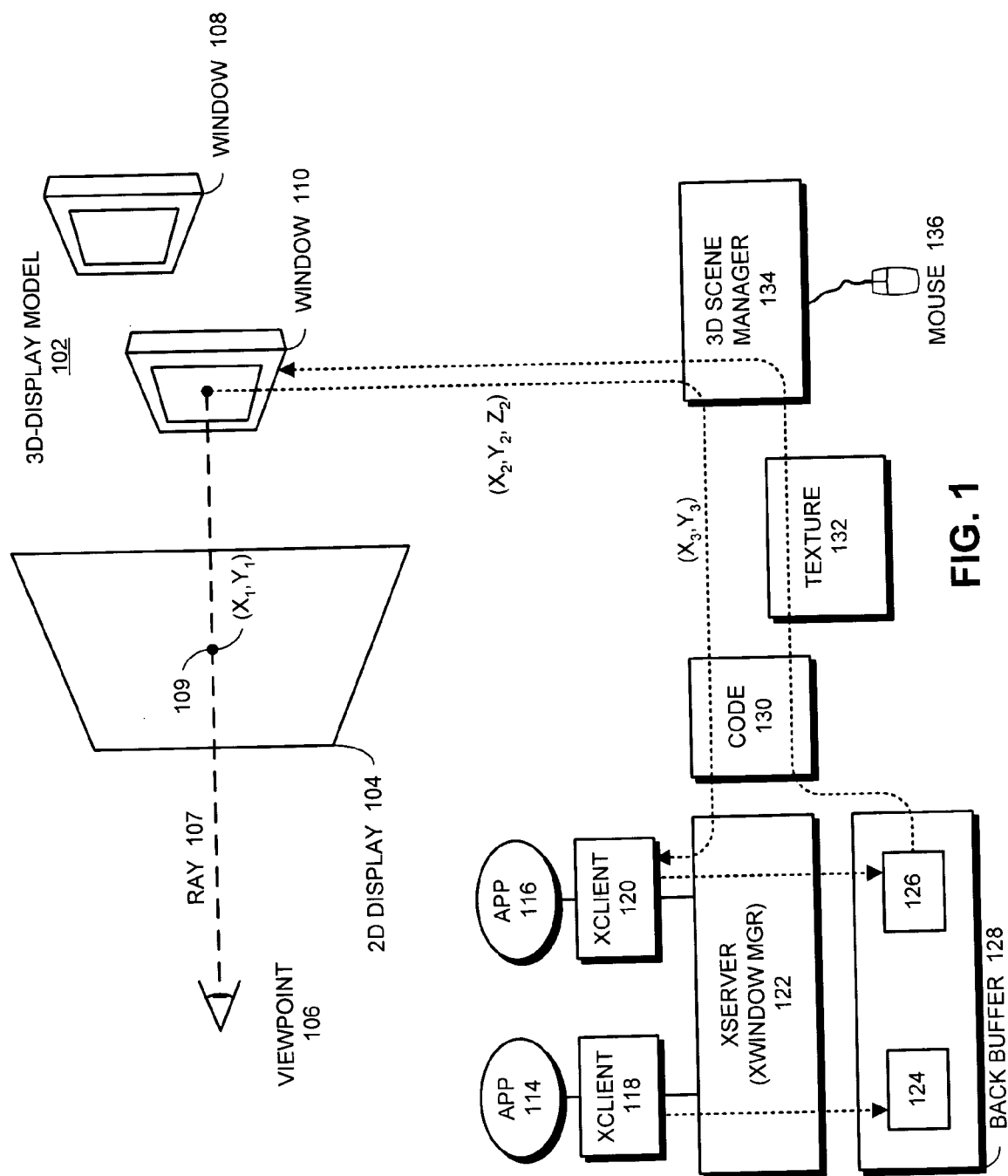
(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2005/0057497 A1**
Kawahara (43) **Pub. Date: Mar. 17, 2005**(54) **METHOD AND APPARATUS FOR
MANIPULATING TWO-DIMENSIONAL
WINDOWS WITHIN A
THREE-DIMENSIONAL DISPLAY MODEL**(52) **U.S. Cl. 345/157**(57) **ABSTRACT**(76) **Inventor: Hideya Kawahara, Mountain View, CA
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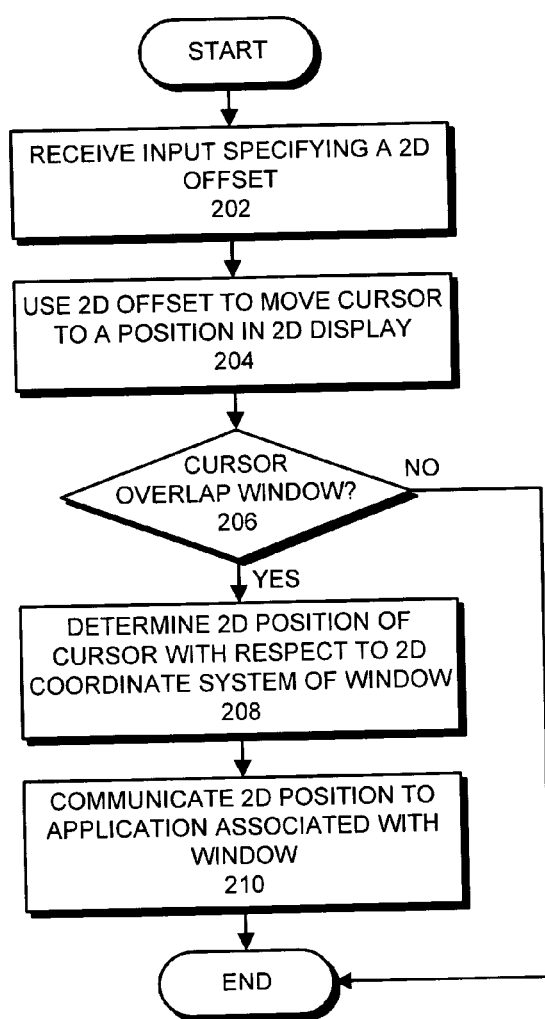
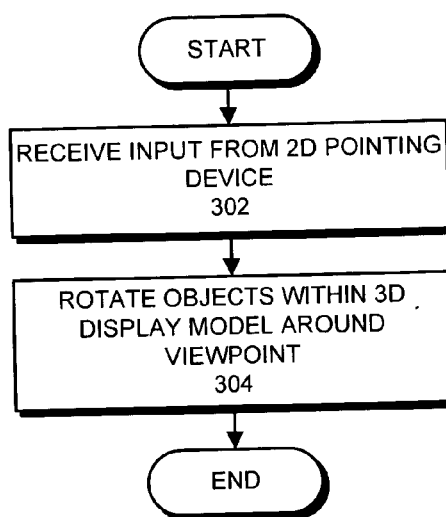
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One embodiment of the present invention provides a system that facilitates manipulating a 2D window within a three-dimensional (3D) display model. During operation, the system receives an input from a 2D pointing device, wherein the input specifies a 2D offset within a 2D display, and wherein the 2D display provides a view into the 3D display model. Next, the system uses the 2D offset to move a cursor to a position in the 2D display, and then determines if the cursor overlaps a window within the 3D display model. If so, the system determines a 2D position of the cursor with respect to a 2D coordinate system for the window, and communicates this 2D position to an application associated with the window. This enables a user of the 2D pointing device to interact with the application.





**FIG. 2****FIG. 3**

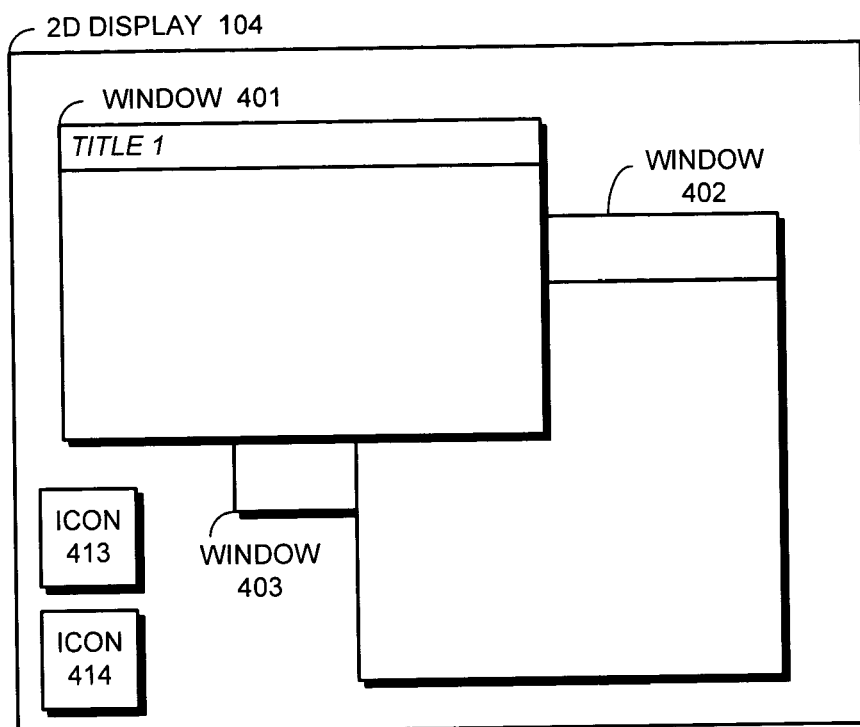


FIG. 4A

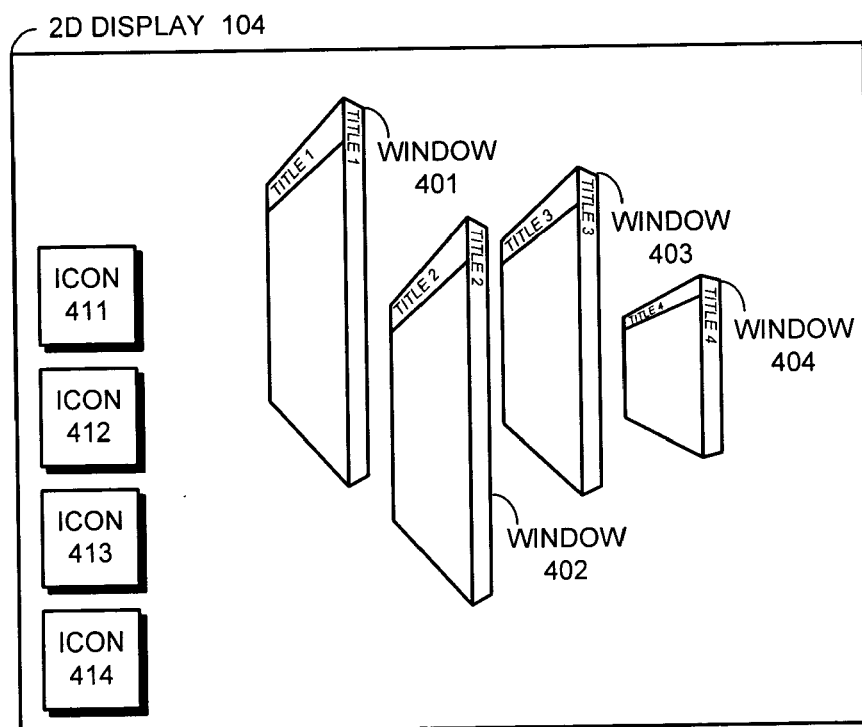
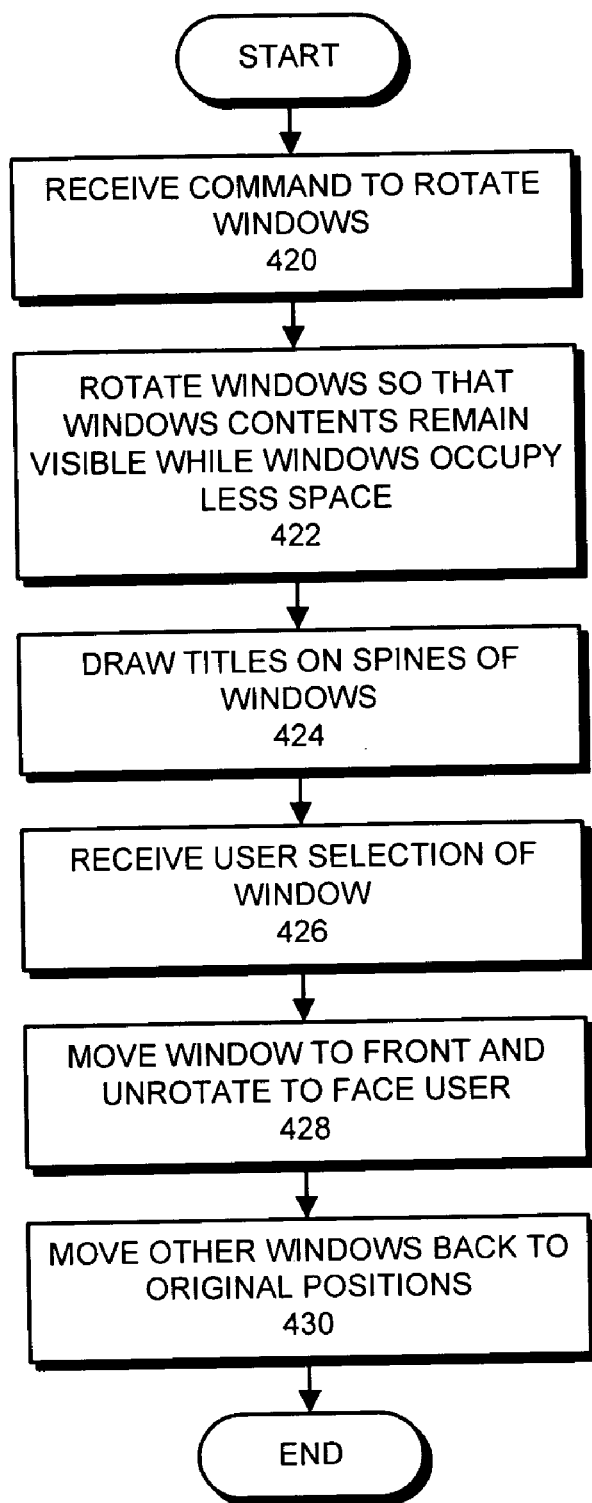


FIG. 4B

**FIG. 4C**

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