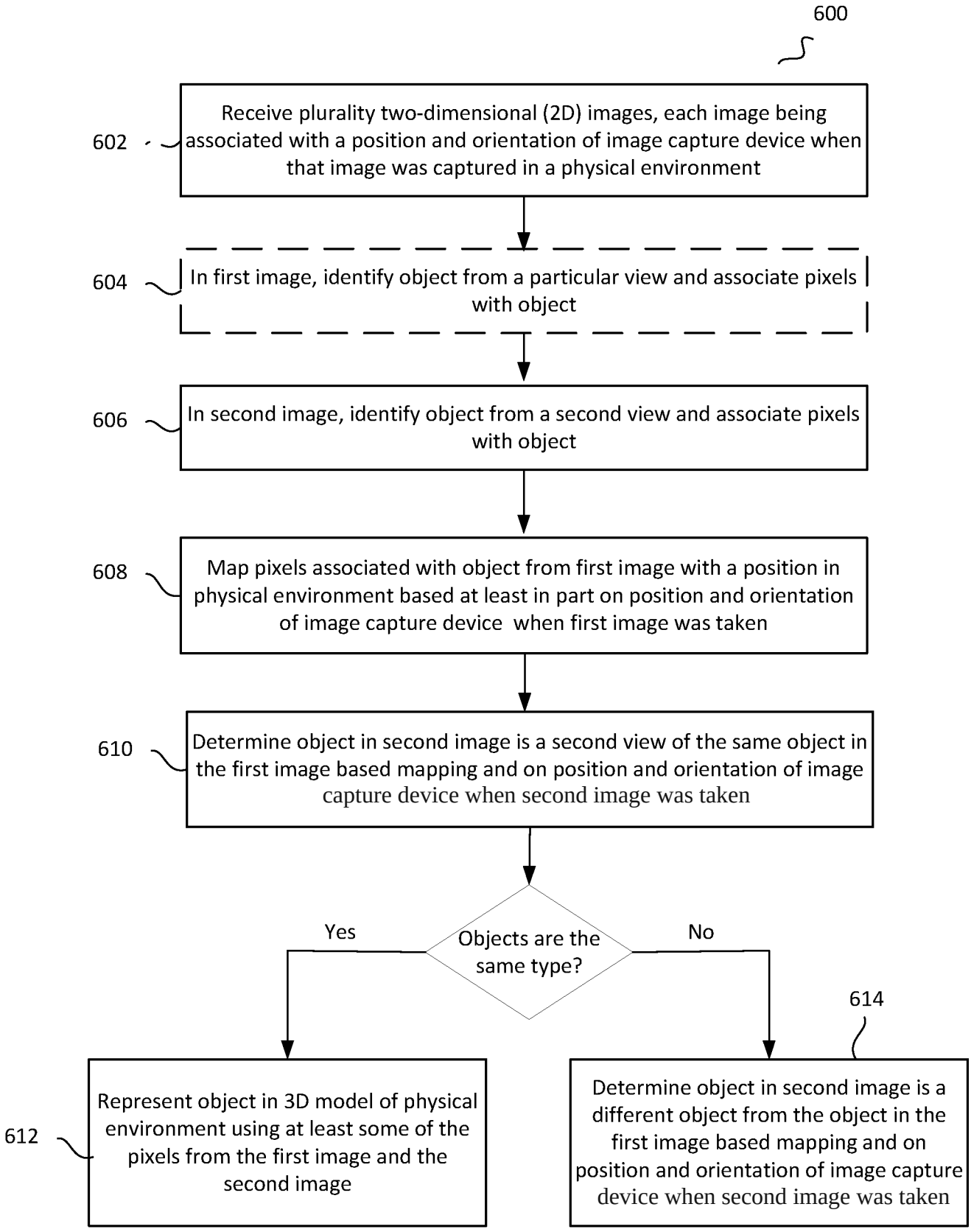

600
602
Receive plurality two-dimensional (2D) images, each image being associated with a position and orientation of image capture device when that image was captured in a physical environment
604
In first image, identify object from a particular view and associate pixels with object
606
In second image, identify object from a second view and associate pixels with object
608
Map pixels associated with object from first image with a position in physical environment based at least in part on position and orientation of image capture device when first image was taken
610
Determine object in second image is a second view of the same object in the first image based mapping and on position and orientation of image capture device when second image was taken
Objects are the same type?
Yes
No
612
Represent object in 3D model of physical environment using at least some of the pixels from the first image and the second image
614
Determine object in second image is a different object from the object in the first image based mapping and on position and orientation of image capture device when second image was taken

FIG. 6