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WITHIN THE SCENE

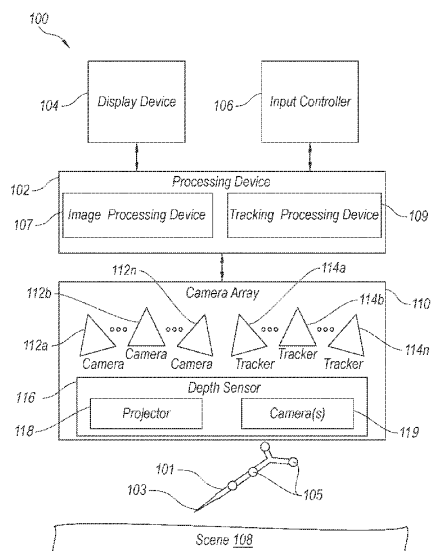


Fig. 1

(57) Abstract: Camera arrays for mediated-reality systems and associated methods and systems are disclosed herein. In some embodiments, a camera array includes a support structure having a center, and a depth sensor mounted to the support structure proximate to the center. The camera array can further include a plurality of cameras mounted to the support structure radially outward from the depth sensor, and a plurality of trackers mounted to the support structure radially outward from the cameras. The cameras are configured to capture image data of a scene, and the trackers are configured to capture positional data of a tool within the scene. The image data and the positional data can be processed to generate a virtual perspective of the scene including a graphical representation of the tool at the determined position.