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(54) Title: MEASUREMENT AND ADJUSTMENT OF EXTENDED REALITY ROUNDTRIP DELAYS

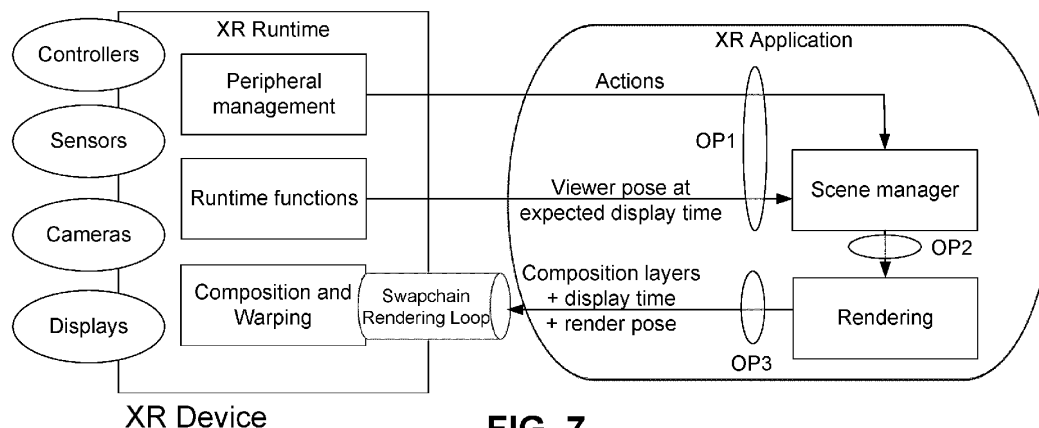


FIG. 7

(57) Abstract: Systems, methods, and instrumentalities are disclosed for measuring and adjusting extended reality (XR) roundtrip delays. A device may determine a first time associated with a start of a scene graph update. The device may determine a second time associated with an end of the scene graph update and a start of a rendering process. The device may determine a third time associated with an end of the rendering process. The device may calculate a first latency associated with the scene graph update based on the first time and the second time. The device may calculate a second latency associated with the rendering process based on the second time and the third time. The device may adjust a first parameter associated with user experience quality based, at least in part, on the first latency.

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