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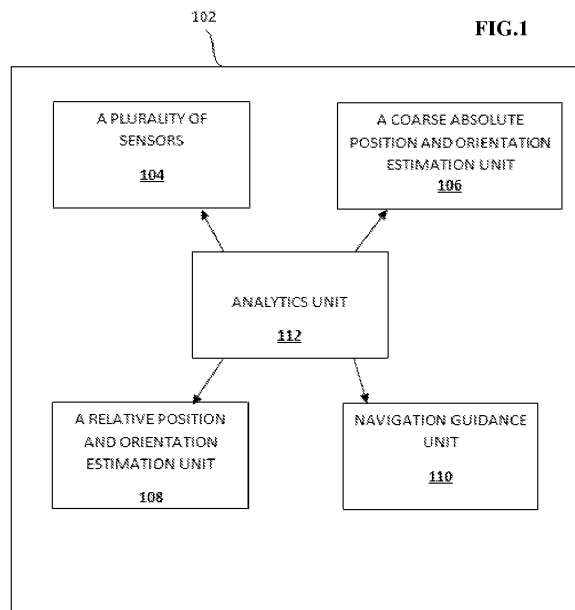
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(54) Title: SYSTEM AND METHOD FOR DETERMINING AN INSTANTANEOUS ABSOLUTE POSITION AND ORIENTATION OF AN ENTITY IN A NAVIGATION SPACE



(57) Abstract: A method and system for determining a refined absolute position and refined absolute orientation of an entity in a navigation space is provided. The system includes a plurality of sensors, a coarse absolute position and orientation estimation unit to determine a coarse absolute position and/or a coarse absolute orientation, of entity based on a position data captured by sensors at predefined frequency/interval, a relative position and orientation estimation unit to determine a relative position and/or a relative orientation, of the entity based on a set of data captured from sensors, a navigation guidance unit to provide and update unique attributes of the navigation space, and an analytics unit to determine refined absolute position or refined absolute orientation of the entity by fine tuning: the coarse absolute position based on relative position and the coarse absolute orientation based on relative orientation using

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