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(54) Title: INTELLIGENT ENCLOSURE SYSTEMS AND COMPUTING METHODS

- Physical sphere
 - Form factor
 - Geometry
 - Interior & exterior (perimeter)
 - Objects
 - Actors
 - Environment
 - Temporal dimension: event, sequence of events
- Fusion system
 - Foreplane
 - Physical fabric
 - Perceptor subsystem
 - Actuator subsystem
 - Admin console
 - Backplane
 - Infrastructures of computing, storage, communication, power, endurance, cloud connection
- Digital sphere (intelligent system)
 - Subsystem of observation: anything and any events within the enclosure can be observable
 - Subsystem of thinking: anything and any events within the enclosure can be modelled
 - Subsystem of activity: anything and any events within the enclosure can be computable
- Compositional structure
- Spatial-tethered computing

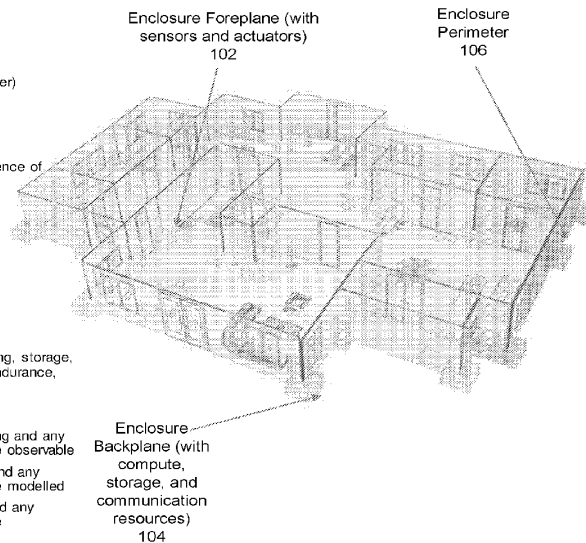


Fig. 1

(57) Abstract: A system comprising a physical sphere, a digital sphere and a fusion system. The physical sphere including physical spatial elements and temporal elements. The fusion system comprising a foreplane including physical fabric, a perceptor subsystem, and an actuator subsystem, and a backplane including a communication infrastructure, computing and storage infrastructure, power infrastructure, redundancy, and cloud connections. The digital sphere including an artificial intelligence system tethered to the physical sphere, the artificial intelligence system comprising a subsystem of observation configured to receive data from the perceptor subsystem, a subsystem of thinking configured to learn from, model, and determine a state of an enclosure based on the received data, and a subsystem of activity configured to generate decisions with the actuator subsystem based on the state of the enclosure according to a predetermined objective for the enclosure.

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