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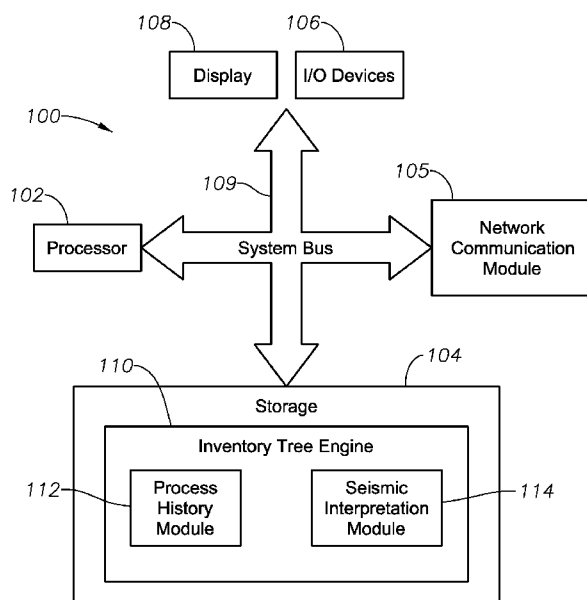


FIG. 1

(57) Abstract: A system and method to intelligently group seismic interpretation data, retrieved from an interpretation workflow, in an inventory tree based upon processing history records automatically captured during generation of volume and horizon datasets. As new volume and horizon datasets are created during the interpretation workflow, the relationships between the datasets are stored within system records. Inventory trees are then generated and/or updated based upon these records to intuitively display the relationships between the volume and horizon datasets.