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(54) Title: IN-SITU WELLBORE, CORE AND CUTTINGS INFORMATION SYSTEM

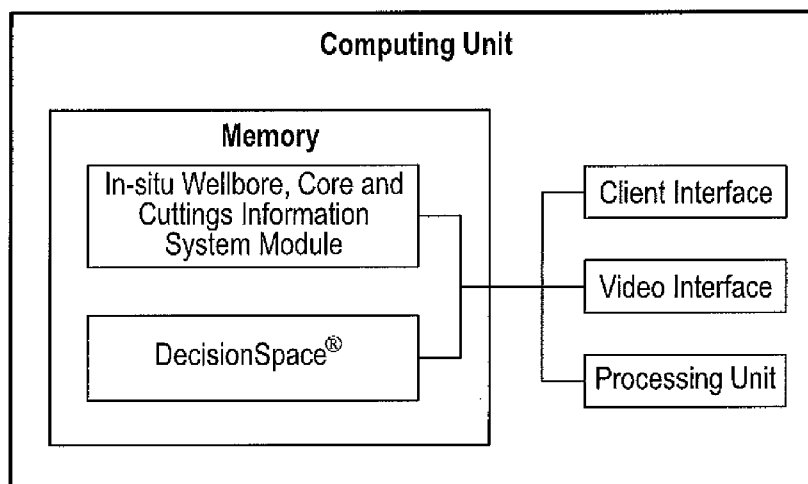


FIG. 12

(57) Abstract: Systems and methods for generation of in-situ wellbore, core and cuttings information systems. An image and image derivative based property visualization, analysis and enhancement system is provided, which utilizes various types of image data, such as digital rock physics and physical laboratories, petrographic analysis and the in-situ wellbore imaging and derivative products of image segmentation in the construction of a static earth model.