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(54) Title: SEISMIC VOLUME COMBINATION

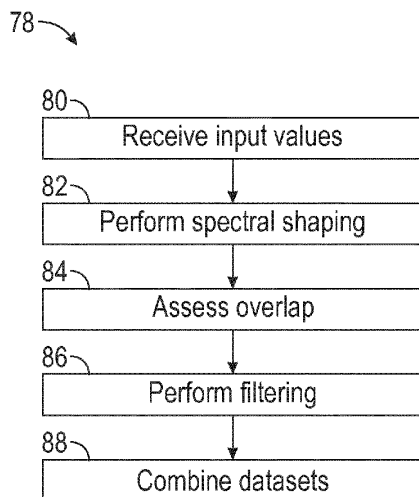


FIG. 5

(57) Abstract: A method includes receiving a first and a second volume generated based on seismic dataset, performing spectral shaping on the first and second volume to generate first and second shaped and phase aligned volumes, wherein phase alignment is with respect to the second volume, determining a frequency band in which to combine the first shaped and phase aligned volume with the second shaped and phase aligned volume, performing filtering on the first and second shaped and phase aligned volumes in the frequency band to generate first and second filtered, shaped and phase aligned volumes in the frequency band, and generating a combined seismic image based at least in part on the first and second filtered, shaped and phase aligned volumes in the frequency band, wherein the combined seismic image represents hydrocarbons in a subsurface region of Earth or subsurface drilling hazards.