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(54) Title: METHOD AND SYSTEM OF LEAK DETECTION

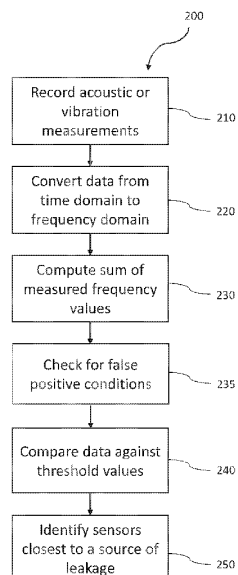


FIG. 4

(57) Abstract: A method of detecting and locating a fluid leakage in a fluid pipeline network comprising a plurality of sensors for acquiring acoustic or vibration measurement in an area of the pipeline network. The data, recorded by the sensors, are transformed from a time domain to a frequency domain. A leakage condition is determined by comparing, within a predetermined frequency range, measured frequency values of the data with a predetermined threshold value for a corresponding frequency, computing a sum of the measured frequency values within a predetermined frequency range and associating the sum value with a corresponding sensor of the plurality of sensors. Location of the leakage is identified by determining the sensor closest to the source of the fluid leakage, based on comparing the sum values associated with the plurality of sensors in the area of the pipeline network over a period of time..

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