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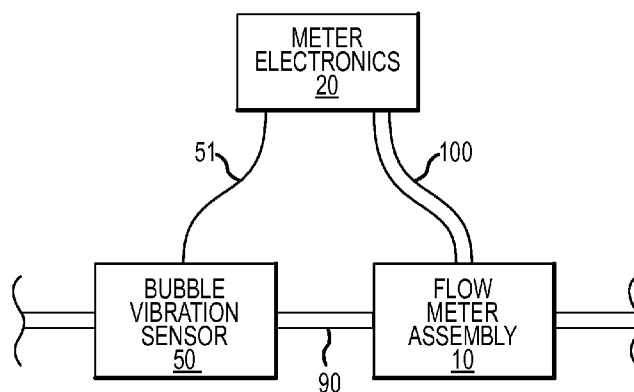


FIG. 2

(57) Abstract: A vibratory flow meter (100) for correcting for entrained gas in a flow material is provided. The vibratory flow meter (100) comprises a flow meter assembly (10) configured to generate a vibrational response for the flow material, a bubble size sensor (50) configured to generate a bubble measurement signal for the flow material, and meter electronics (20) coupled to the flow meter assembly (10) and to the bubble size sensor (50). The meter electronics (20) is configured to receive the vibrational response and the bubble measurement signal, determine a bubble size of bubbles in the flow material using at least the bubble measurement signal, determine one or more flow characteristics of the flow material using at least the vibrational response and the bubble size.