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(54) Title: VIBRATORY FLOW METER AND ZERO CHECK METHOD

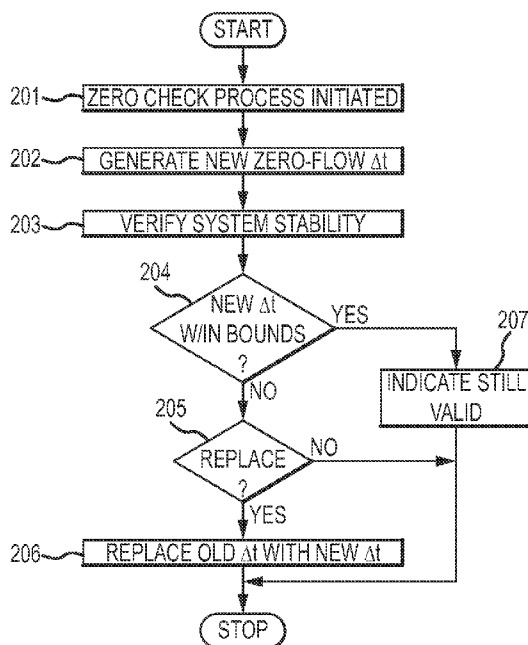


FIG. 2

(57) Abstract: A vibratory flow meter (5, 300) is provided. The vibratory flow meter (5, 300) includes a flow meter assembly (10, 310) including at least two vibration sensors (170L and 170R, 303 and 305) that generate at least two vibrational signals and meter electronics (20, 320) that receives the at least two vibrational signals, generate a new time difference (Δt) using multiple time difference measurements obtained for a flow material, and determine if the new time difference (Δt) is within predetermined bounds of an old time difference (Δt_0).



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