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(54) Title: METER ELECTRONICS AND FLUID QUANTIFICATION METHOD FOR A FLUID BEING TRANSFERRED

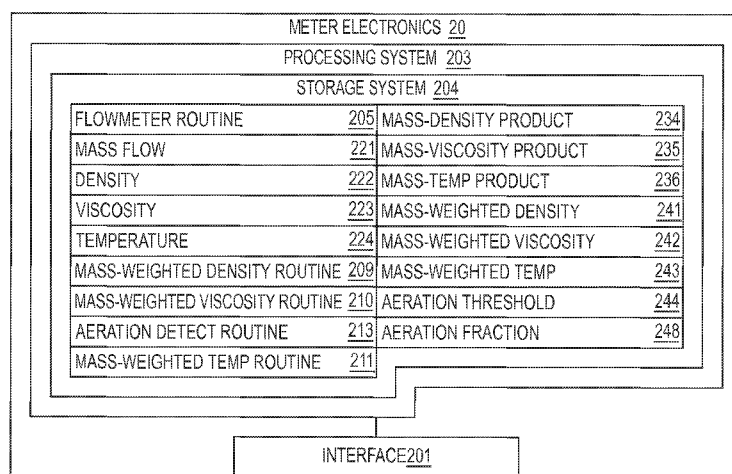


FIG. 3

(57) Abstract: Meter electronics (20) for quantifying a fluid being transferred is provided. The meter electronics (20) includes an interface (201) configured to communicate with a flowmeter assembly of a vibratory flowmeter and receive a vibrational response and a processing system (203) coupled to the interface (201). The processing system (203) is configured to measure a mass flow and a density for a predetermined time portion of the fluid transfer, determine if the fluid transfer is non-aerated during the predetermined time portion, if the predetermined time portion is non-aerated then add a mass-density product to an accumulated mass-density product and add the mass flow to an accumulated mass flow, and determine a non-aerated mass-weighted density for the fluid transfer by dividing the accumulated mass-density product by the accumulated mass flow.