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(54) Title: METHOD OF CORRECTING FLOW METER VARIABLE

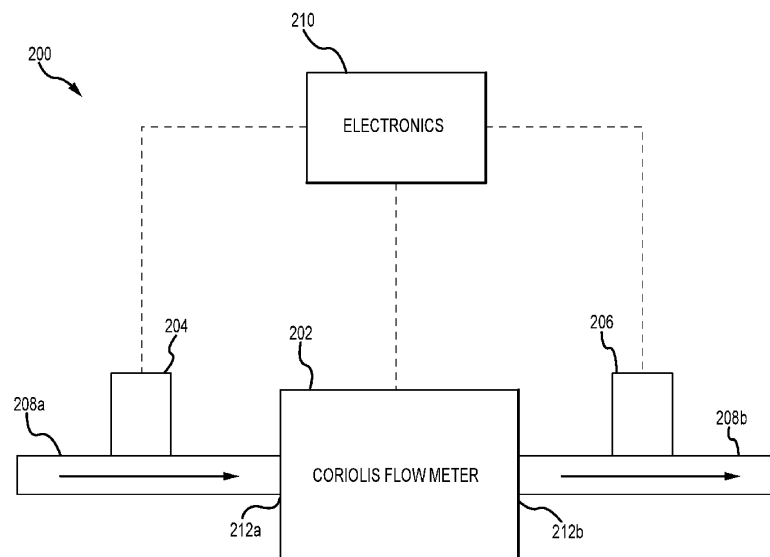


FIG.2

(57) Abstract: A method for correcting a flow variable (509) based on an inner pressure inside a Coriolis flow meter (202) comprises the steps of receiving a first outside pressure (503) measured with a first pressure sensor (204) located in a first process conduit (208a) positioned on a first end (212a) of the Coriolis flow meter (202), determining a second outside pressure (505) in a second process conduit (208b) positioned on a second end (212b) opposing the first end (212a) of the Coriolis flow meter (202), determining an estimated inner flow meter pressure (507) based on the first outside pressure (503) and the second outside pressure (505), receiving the flow variable (509), and generating a corrected flow variable (512) based on the estimated inner flow meter pressure (507), a pressure compensation factor (510), and the flow variable (509).

[Continued on next page]

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