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(54) Title: INDIRECT MASS FLOW SENSOR

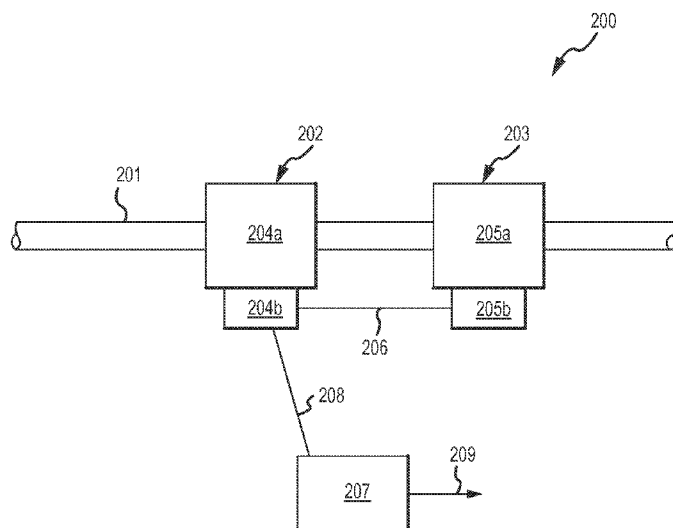


FIG. 2

(57) Abstract: A mass flow rate sensor system (200) is provided. The mass flow rate sensor system (200) includes a density meter (202) including a sensor assembly (204a) and a density meter electronics (204b) configured to generate a density measurement of a process fluid. The mass flow rate sensor system (200) further includes a volumetric flow meter (203) including a sensor assembly (205a) and a volumetric meter electronics (205b) configured to generate a volumetric flow rate of the process fluid and in electrical communication with the density meter electronics (204b). A remote processing system (207) is provided that is in electrical communication with only one of the density meter electronics (204b) or the volumetric meter electronics (205b). The remote processing system (207) is configured to receive a mass flow rate measurement of the process fluid generated by the density meter electronics (204b) or the volumetric meter electronics (205b) based on the generated density measurement and the generated volumetric flow rate.