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[Continued on next page]

(54) Title: VIBRATORY FLOW METER FOR DETERMINING ONE OR MORE FLOW FLUID CHARACTERISTICS OF A MULTI-PHASE FLOW FLUID

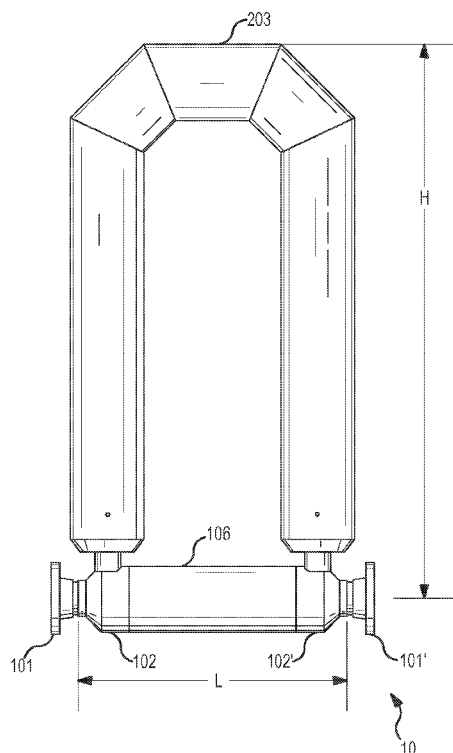


FIG. 2

(57) Abstract: A vibratory flow meter (5) for determining one or more flow fluid characteristics of a multi-phase flow fluid includes one or more flow conduits (103A, 103B). The flow meter assembly (10) is configured to generate a very low frequency response that is below a predetermined minimum decoupling frequency for the flow fluid and to generate a very high frequency response that is above a predetermined maximum decoupling frequency for the flow fluid, independent of the foreign material size or the foreign material composition. The meter (100) further includes meter electronics (20) configured to receive one or more very low frequency vibrational responses and one or more very high frequency vibrational responses and determine the one or more flow fluid characteristics from the one or more very low frequency vibrational responses and the one or more very high frequency vibrational responses.



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