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(54) **Title:** METHOD AND SYSTEM FOR FLOW MEASUREMENT AND VALIDATION OF A MASS FLOW CONTROLLER

(57) **Abstract:** Systems and methods for flow verification and validation of mass flow controllers are disclosed. A mass flow controller may be commanded to a specified flow and flow measurement commenced. During an interval, gas is accumulated in a first volume and measurements taken within this volume. The various measurements taken during the interval may then be used to calculate the flow rate. The flow rate, in turn, may be used to determine the accuracy of the mass flow controller relative to a setpoint.