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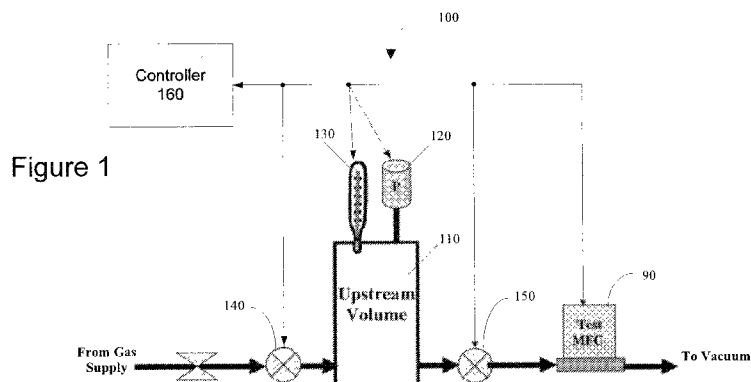
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(54) Title: UPSTREAM VOLUME MASS FLOW VERIFICATION SYSTEMS AND METHODS



(57) Abstract: This disclosure relates to mass flow verification systems for and methods of measuring and verifying the mass flow through a mass flow delivery / measurement device such as a mass flow controller. A mass flow verification system comprises a preset volume, a temperature sensor, and a pressure sensor. The measured verified flow determined by the mass flow verification system can be adjusted to compensate for errors resulting from a dead volume within the mass flow measurement device.