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(54) Title: PRESSURE SENSOR EMBEDDED IN A METERING DEVICE

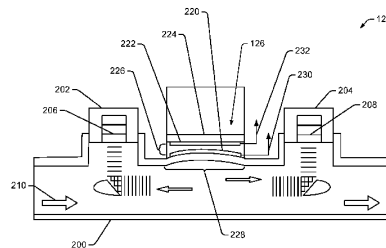


FIG. 3

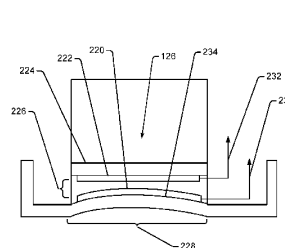


FIG. 3A

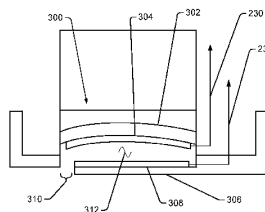


FIG. 3B

(57) Abstract: An example pressure-sensing device includes a pipe or conduit having upstream and downstream connectors for respective upstream and downstream transducers to measure fluid (e.g., water) flow. The conduit may be made at least in part of a resiliently deformable material. A deformable electrode of a capacitor may be mounted in contact with a dry-side surface of an area of the resiliently deformable material. The wet-side surface of the area may define part of a pathway for a flow of the fluid. In operation, the area of the resiliently deformable material changes a location and/or a shape of the deformable electrode in response to changes in fluid pressure. A fixed electrode of the capacitor is separated by a dielectric material (e.g., air or an insulator) from the deformable electrode, and a circuit determines a pressure of the fluid based at least in part on a capacitance between the deformable electrode and the fixed electrode.

[Continued on next page]

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