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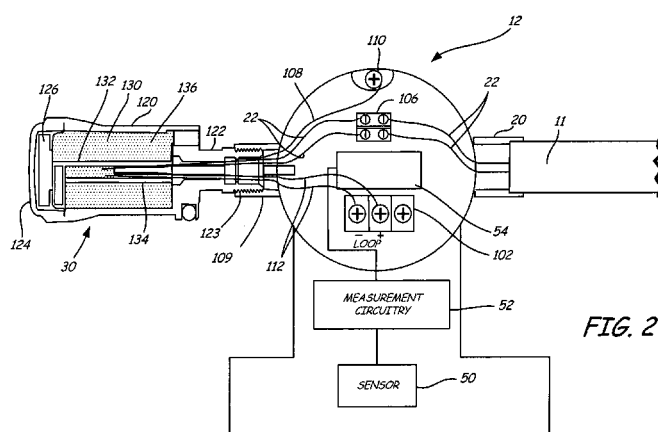
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(54) Title: WIRELESS COMMUNICATION ADAPTER FOR FIELD DEVICES



(57) Abstract: A wireless process communication adapter (14, 30) is provided. The adapter (14, 30) includes a housing (120) having a plurality of openings (150, 152). An end cap (124) is coupled to a first opening (150) of the plurality of openings (150, 152). A field device coupling (122) is disposed at the second (152) of the plurality of openings (150, 152). The housing (120), end cap (124) and field device coupling (122) define a chamber (130) therein. At least one circuit board is disposed within the chamber (130), the circuit board (132, 134) has wireless communication circuitry disposed thereon and is coupleable to a field device (12) through the field device coupling (122). In one aspect, substantially all remaining volume in the chamber (130) is filled with a solid material (136). In another aspect, an explosion-proof barrier (164) is provided in the field device coupling (122). Combinations of the aspects are also provided.