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(54) Title: RF ADAPTER FOR FIELD DEVICE WITH LOOP CURRENT BYPASS

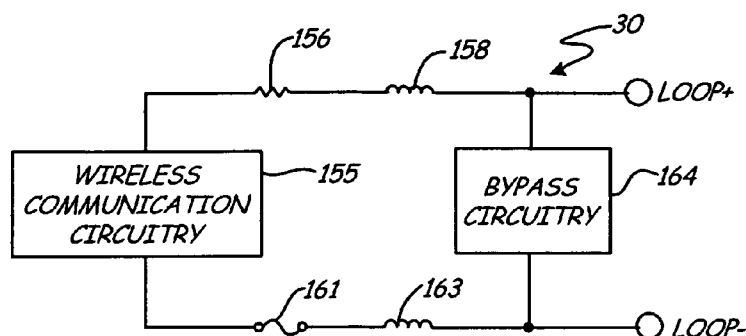


Fig. 4

(57) Abstract: A wireless adapter for use with a two-wire process control loop (22) is configured to couple to a process field device (12) in an industrial process control system. The wireless adapter (30) is coupled to the two-wire process control loop (22) and provides wireless communication to the process field device (12). The adapter (30) includes first and second loop terminals configured to couple in series with the two-wire process control loop (22). Wireless communication circuitry (155) is coupled to the first and second loop terminals and is adapted to provide wireless communication to the process field device (12). Loop current bypass circuitry (164) is electrically connected between the first and second loop terminals and is configured to provide a loop current path therebetween in response to an open circuit in wireless communication circuitry (155).

