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(54) Title: WIRELESS SHELL AND TUBE HEAT EXCHANGER FOULING PREDICTION SYSTEM

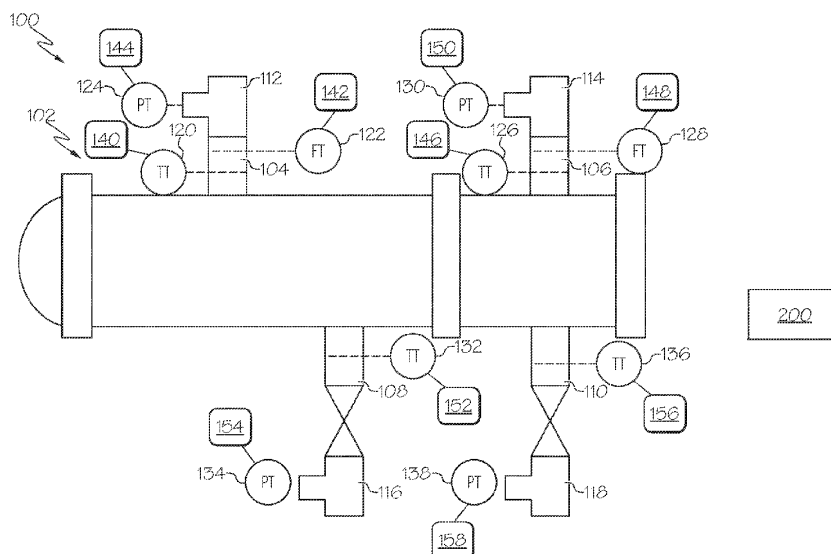


FIG. 1

(57) Abstract: A system may include a shell and tube heat exchanger with temperature sensors affixed to an outer surface of shell and tube inlet and outlet ports, flow rate sensors affixed to an outer surface of shell and tube inlet ports, and pressure sensors within Tees connected to the shell and tube inlet and outlet ports. Wireless transmitters may transmit sensor data from the sensors to a computing device. The computing device may determine one or more fouling indicators, based on the sensor data, indicating a likelihood of fouling occurring in the shell and tube heat exchanger.

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