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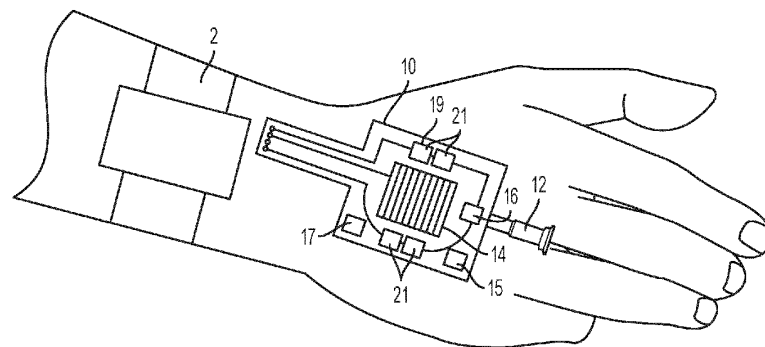


FIG. 1

(57) Abstract: A sensing system for sensing a potential complication at a venous catheter site. The system includes a sensor module for attachment at the site of the catheter. The sensor module includes a pressure sensor configured to generate pressure data representing measured pressure at the site of the catheter; a temperature sensor configured to generate temperature data representing measured temperature at the site of the catheter; and two pairs of bio impedance electrodes that generate bio-electrical signals representing bioelectrical activity at the site of venous catheter and a transmitter for transmitting the pressure, temperature data and bio impedance data. The system also includes a computing device configured to receive the response signal that includes the generated pressure, temperature and bio impedance data; and transmit the pressure temperature and bio impedance data to a user device for comparing the generated pressure temperature bio impedance data to threshold values indicative of intravenous complications.

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