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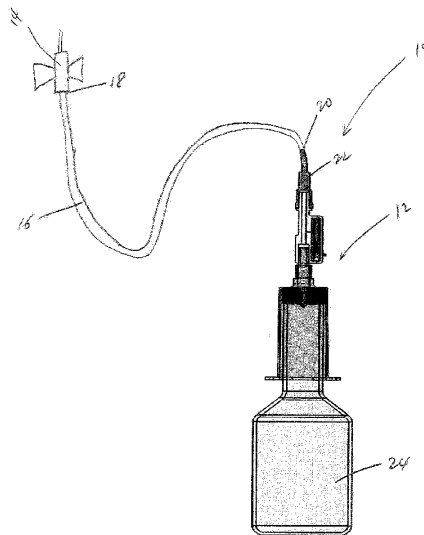


FIG. 1

(57) Abstract: A blood collection system for determining an accurate blood fill volume in a collection vessel is disclosed herein. The blood collection system includes a flow component and a blood metering device connected to the flow component. The flow component comprises a flow channel having a T-junction. The blood metering device includes a control unit for operating the blood metering device, a barrel configured to align with a neck of a collection vessel for receiving the neck therewithin, and an adapter including a luer connector at a first end portion thereof for coupling with the control unit and a second end portion thereof for coupling with the barrel. A pressure sensor is disposed in a channel adjacent to and in fluid communication with the T-junction. Methods of determining an accurate blood fill volume in a collection vessel are also disclosed herein.



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