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(54) Title: ENDO-LEAK FREE AORTIC ADAPTER ASSEMBLY AND METHOD OF DEVICE DELIVERY

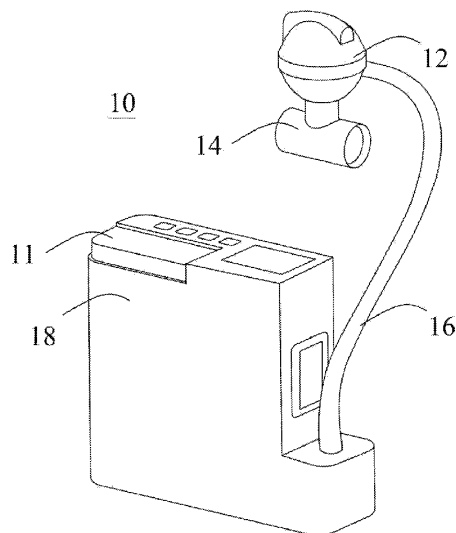


FIG. 1

(57) Abstract: An aortic adapter assembly is provided, including a T-shaped flow connector, including: an inserted conduit portion, having a blood-contacting surface which is smooth; an extruded neck portion, wherein the inserted conduit portion is joined with the extruded neck portion; and a truss, disposed in the inserted conduit portion; wherein the T-shaped flow connector has a polymeric elastomer reinforced by the truss having a Nitinol material; wherein the inserted conduit portion has an inner wall which is gradually thinning at two conduit ends of the inserted conduit portion, with a proper distance of a tip of the conduit end to the outmost boundary of the truss, and the conduit end possesses a compliance-matching effect to an implant site artery; wherein a proximal end of the extruded neck portion is configured to be joined with an inlet adapter of a blood pump. The aortic adapter assembly is accompanied with a quick-connector type coupler and a deployment method to accomplish an insertion type flow communication between a ventricular assist device and the human circulation.