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(54) Title: IMPLANTABLE CO-PULSATILE EPI-VENTRICULAR CIRCULATORY SUPPORT SYSTEM WITH SUTURELESS FLOW CANNULA ASSEMBLY

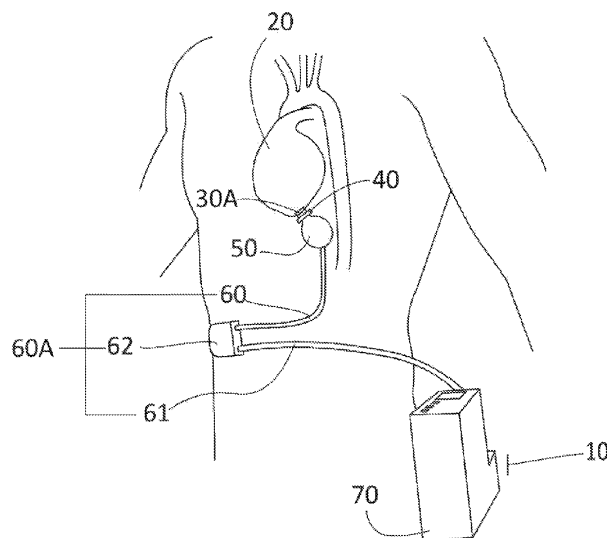


FIG. 1

(57) Abstract: An implantable circulatory support system, configured to connect a ventricular chamber of a heart, including a valveless displacement blood pump, a deformable polymeric flow cannula, a pair of male and female fasteners, a coupler, a driveline assembly, and a co-pulsatile driver. Forward and backward flow communication between the blood pump and the heart chamber is accomplished using the present flow cannula invention which is anastomosed to the heart chamber in a sutureless manner. When providing circulatory support, the co-pulsatile driver ejects blood out of the blood pump during systolic ventricular contraction and fills the blood pump with blood during diastolic ventricular relaxation.

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