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(54) Title: FLUORO-LESS SYSTEM AND METHOD FOR DELIVERING CATHETER-BASED BLOOD PUMPS

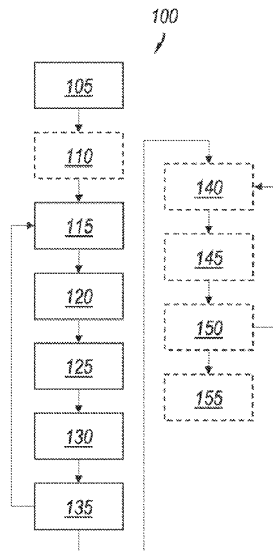


FIG. 1

(57) Abstract: The disclosed system and method generally involve using guidewire imaging technology to create a three-dimensional image or map of the vessels all the way from an insertion site to the heart. This imaging provides useful landmarks and information about tortuosity and position. The method then measures pump and/or pump catheter position during insertion using direct or indirect techniques. This pump position can then be overlayed onto the three-dimensional image or map created by the guidewire to determine inflow position in the vessel, the proximity to key landmarks, and assist in the delivery without fluoroscopy.

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