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(54) **BLOOD ASPIRATION SYSTEM AND METHODS OF USE**

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(57) **ABSTRACT**

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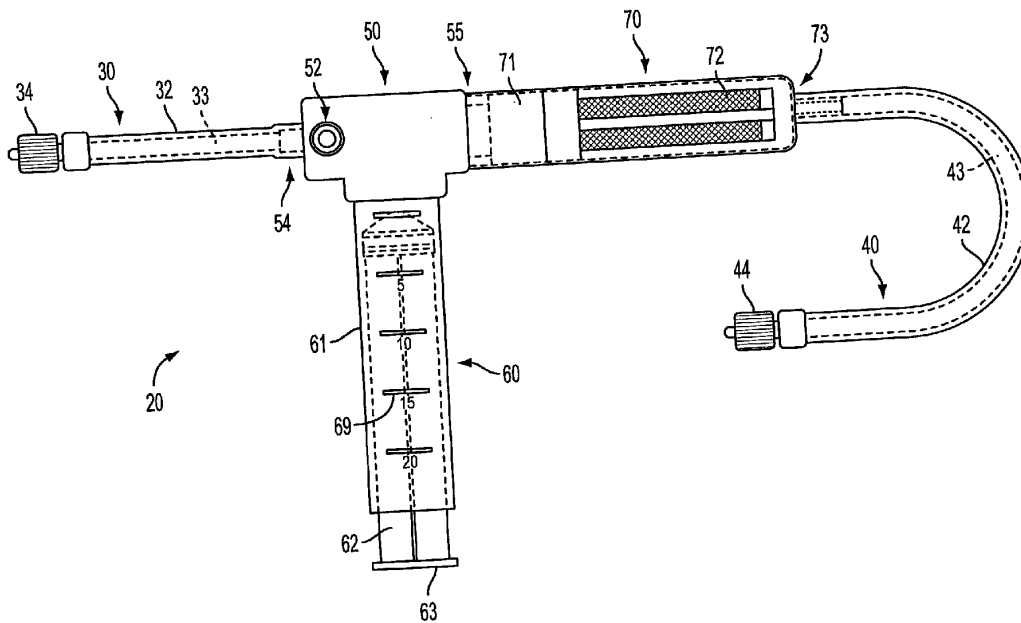
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The present invention is directed to a blood aspiration system that is configured to enable various types of aspiration through a working lumen of a catheter. The blood aspiration system facilitates natural aspiration by providing a circuit between a patient's arterial and venous vasculature, and also comprises a manually actuated pump configured to selectively vary rates of aspiration in the working lumen. The blood aspiration system further comprises an external port that allows suction-assisted aspiration or infusion through the working lumen, and further comprises a detachable filter that removes emboli prior to reperfusing blood into a patient's venous vasculature.



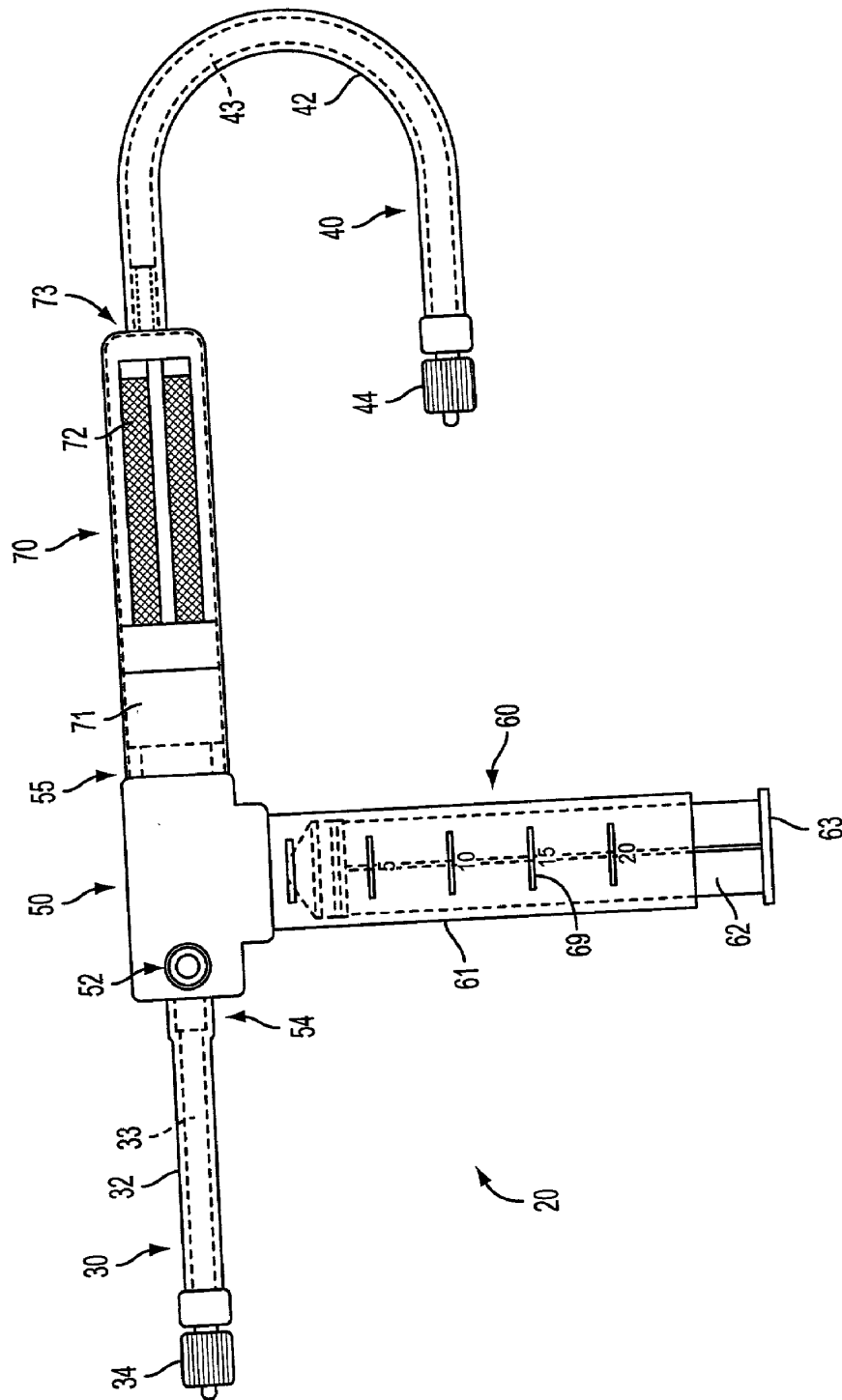


FIG. 1A

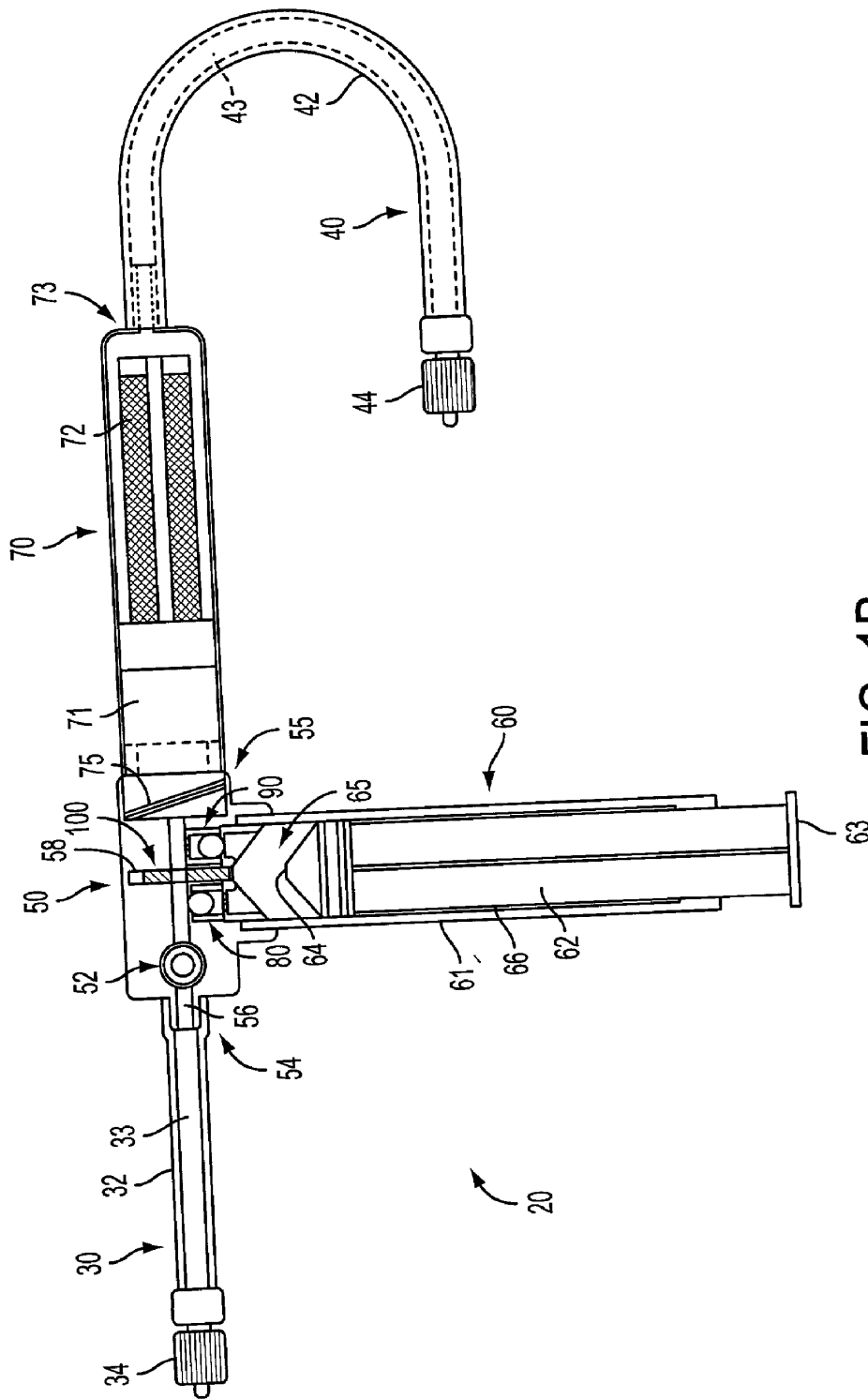


FIG. 1B

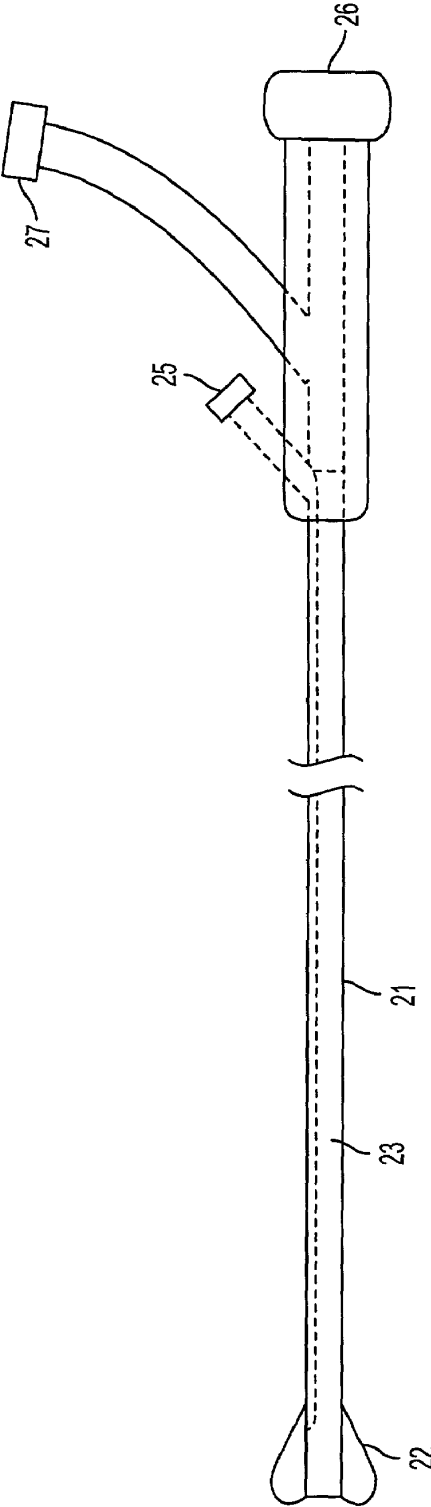


FIG. 2

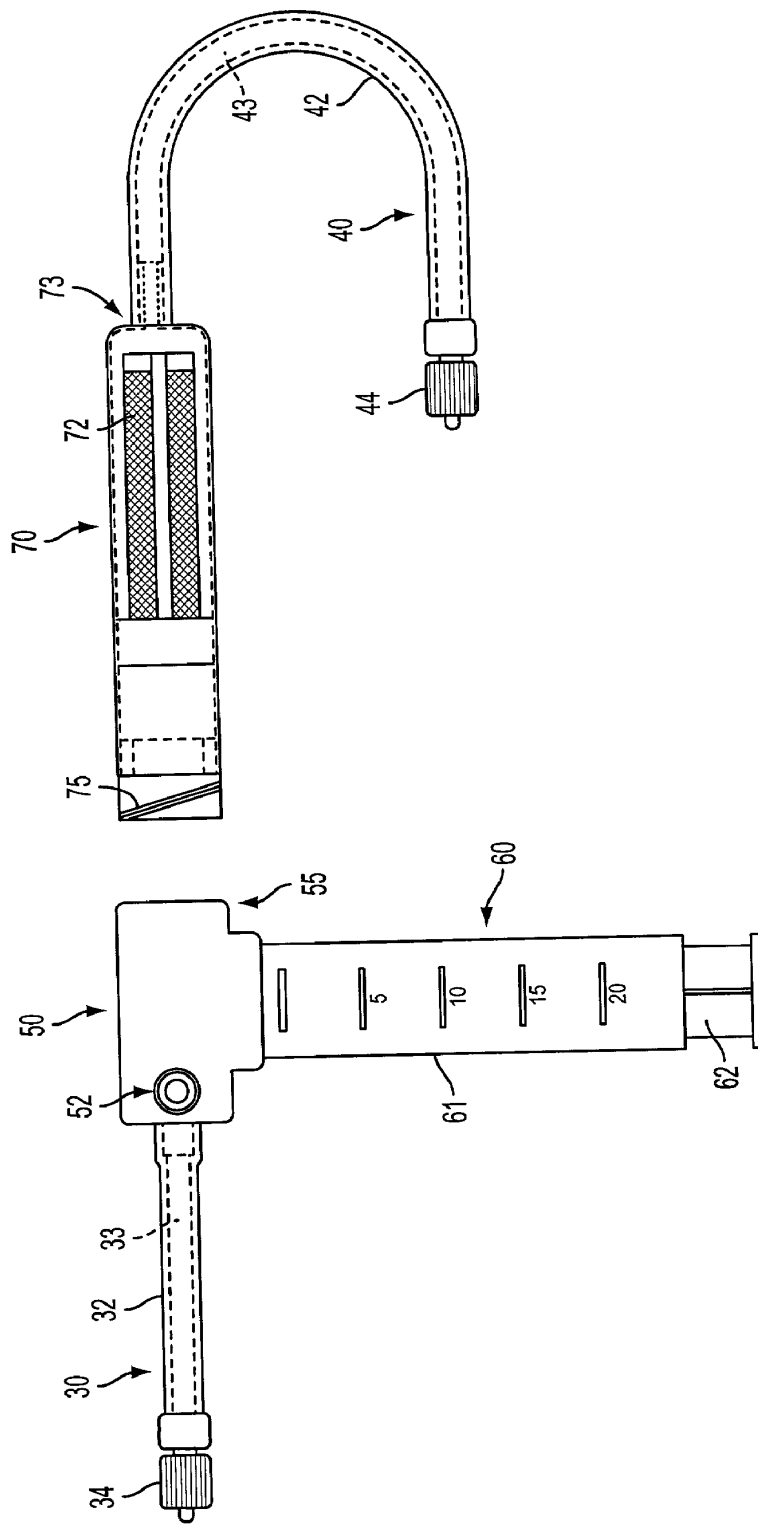


FIG. 3

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