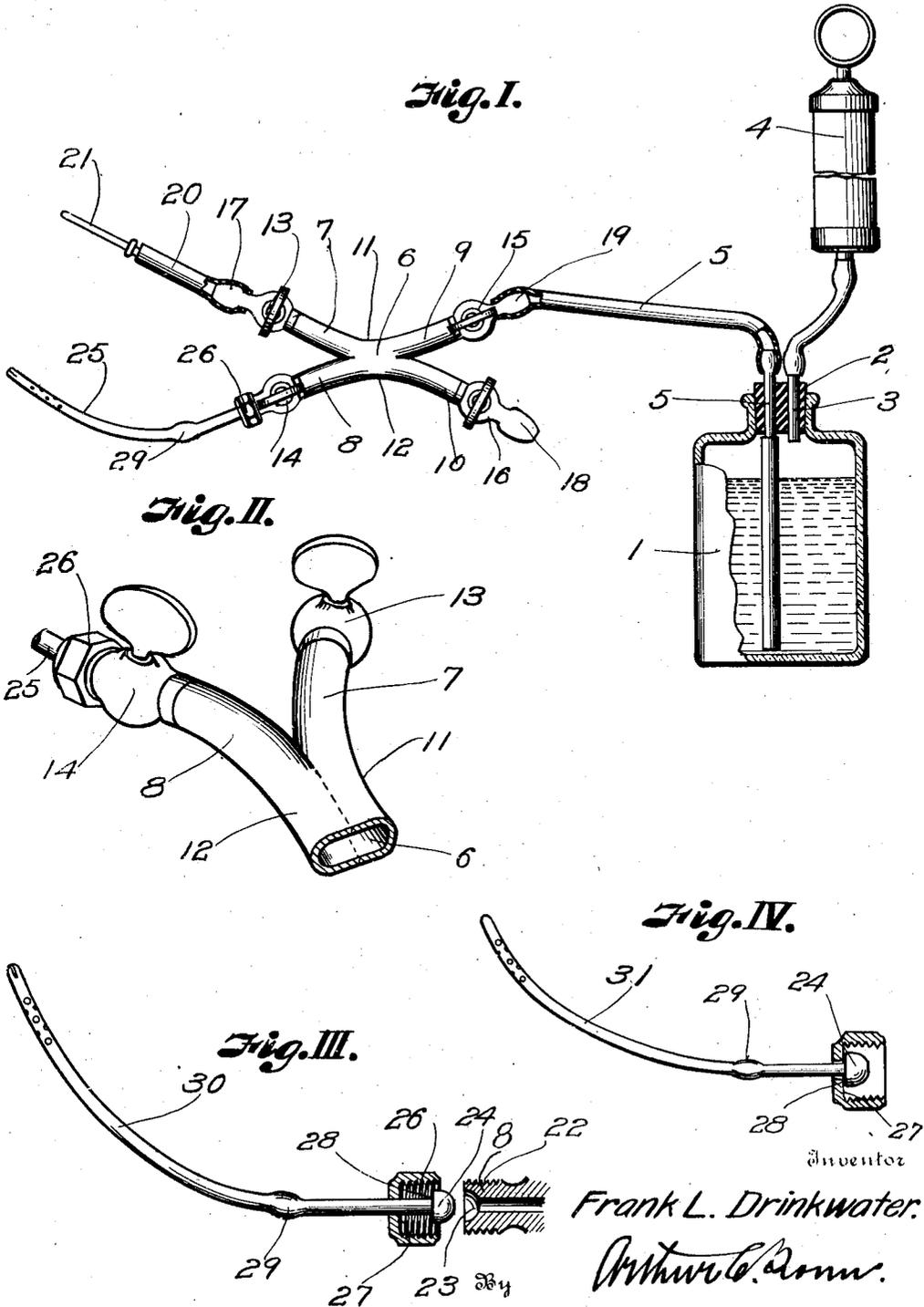


F. L. DRINKWATER.
 EMBALMING SET.
 APPLICATION FILED APR. 17, 1919.

1,335,158.

Patented Mar. 30, 1920.



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UNITED STATES PATENT OFFICE.

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EMBALMING SET.

1,335,158.

Specification of Letters Patent. Patented Mar. 30, 1920.

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To all whom it may concern:

Be it known that I, FRANK L. DRINKWATER, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Embalming Sets; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to a combination artery and vein embalming set whereby a preservative fluid may be introduced into the arteries and veins of the human body to embalm the same.

The apparatus contemplates the provision of a suitable receptacle or "bottle" to contain an embalming fluid which may be put under pressure by a pump and a "set" consisting of a fluid controlling device connected to the bottle and provided with discharge openings and a drain which may be appropriately valved to control the ports of the set, being so associated that the fluid may be directed into a muscular tubular vessel, either an artery or a vein, or both, and when desired, means is provided for draining the arteries or veins, as is sometimes done to reduce discoloration.

Figure I is a plan view of an embalming set constructed in accordance with my invention, the fluid containing bottle and pressure pump being diagrammatically shown as connected thereto.

Fig. II is a cross sectional perspective view showing one end of the set.

Figs. III and IV are detail views of instruments adapted to be associated with the set.

Referring now to the drawings by numerals of reference:

1 designates a flask or bottle of approved construction provided with a stopper 2, through which a tube 3 may pass to effect communication between the pump 4 and the interior of the bottle. A connecting tube 5 also has communication with the bottle through the stopper 2 and is adapted to be secured to the inlet end of an embalming set

which constitutes the main feature of my invention.

The embalming set is shown as comprising a central chamber 6 having a plurality of radially disposed tubular extensions 7, 8, 9 and 10 preferably formed by bending two pipe members, 11 and 12, and fastening them together intermediate their ends with their side walls cut away so that the central chamber 6 will be provided. The tubular extensions 7, 8, 9 and 10 are provided with valves or stop cocks 13, 14, 15 and 16 respectively and the tubular extensions 7, 9 and 10 are provided with enlarged ends 17, 18 and 19 to receive flexible tubular members such as rubber hose, as will be explained hereinafter. By reference to Fig. I it will be apparent that the enlargement 19 is adapted to be engaged by the tube 5, this being desirable because the tubular extension is the inlet to the set. The tubular extension 7 is a discharge port, the end 17 being adapted to receive the hose 20 on which a hollow embalming needle or tubular member 21 may be fastened in any approved manner. The tubular extension 10 is a drain and it may receive a tube on the end 18 for the purpose of conveying the drained fluid to a receptacle provided for that purpose.

In Fig. III I have shown the tubular extension 8 as provided with a threaded end 22 having a concave seat 23 to receive the convex head 24 of the vein-engaging needle or tube 30 which corresponds in all essential particulars to the vein-engaging tube designated 25 in Fig. I, although the needle or tube 30 is slightly longer and curved on a greater arc than the tube 25. The tube 30, like the tube 25, may be secured to the extension 8 by means of the internally threaded collar 26 having a shoulder 27 adapted to bear against the shoulder 28 on the tube 30 so that an effective coupling is made. The exterior enlargement or collar 29 serves the purpose of acting as a surface dam or stopper when the member 25 is inserted in the vein, it being understood that the vein is drawn up over the portion 29, which will completely fill it. The portion 29 also assists in giving stability to the device in operation.

In Figs. III and IV, the devices 30 and 31 respectively are substantially the same as the device 25 except as to size and these are

interchangeable with 25, as the occasion may demand.

Assuming that all the parts are properly assembled and it is desired to perform the embalming operation, the pressure will be provided in the flask or bottle 1 and either the member 21 or 25, or both, will be properly inserted in the vein or artery, or both, as the case may be and the valve 15 will be opened, admitting the embalming fluid to the central chamber 6. Then either the valve 13, the valve 14, or both, may be opened to permit the fluid to discharge through either extension 7 or 8. During this time the valve 16 will be closed. If it is desired to drain the artery or vein, the valve 15 will be closed and the valve 16 opened to permit a back flow through the extension 10.

From the foregoing, it will be seen that the set may be constructed of metal so that it will be conveniently portable and easily operated, the parts being so associated that the embalming operation may be most expeditiously effected, it being obvious that the device may be compactly constructed, the advantage of such a structure being readily apparent.

What I claim and desire to secure by Letters-Patent is:

1. An embalming set comprising a central chamber, having a plurality of radially disposed tubular extensions communicating therewith, a removable vein-engaging tube

connected to one of the extensions, an arterial-engaging tube for another extension, means on another extension for effecting connection with an embalming fluid-containing receptacle, one of said extensions providing means for effecting a drainage from the chamber, valves in the respective tubular extensions and an embalming fluid-containing receptacle connected to the first named means.

2. An embalming set consisting of two oppositely bent tubes, each having a forward extension and a rearward extension, the tubes being secured together at their intermediate portions to provide a central chamber communicating with all the extensions, valves in the extensions, the forward extensions having discharge ports, one rearward extension having an inlet port, and the other extension serving as a drain.

3. An embalming set consisting of a central chamber, provided with a plurality of outstanding tubular extensions communicating therewith, valves in said extensions, and a removable vein-engaging tube connected to one of the extensions consisting of a curved member having a vein-engaging enlarged portion near the butt end thereof whereby a vein may be engaged to prevent slipping thereof from engagement with the tube or vice versa.

In testimony whereof I affix my signature.

FRANK L. DRINKWATER.