

Nov. 29, 1949

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2,489,756

EMBALMING INSTRUMENT

Filed Dec. 7, 1945

2 Sheets-Sheet 1

Fig. 1.

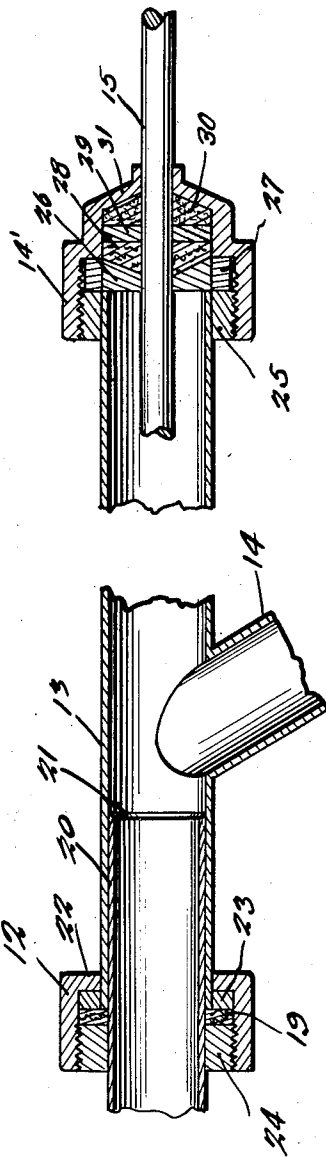
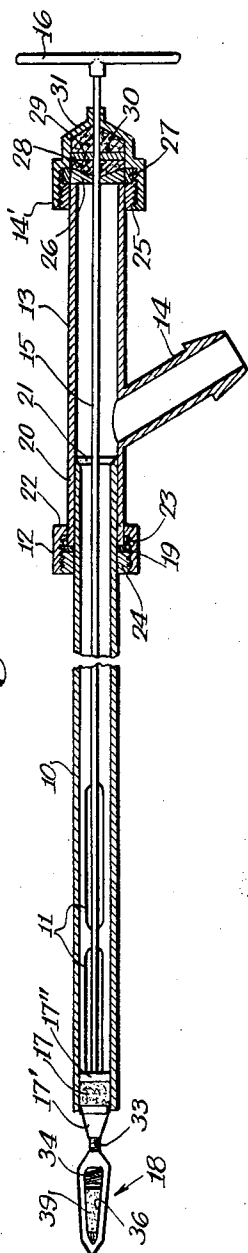


Fig. 2.

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2 Sheets-Sheet 2

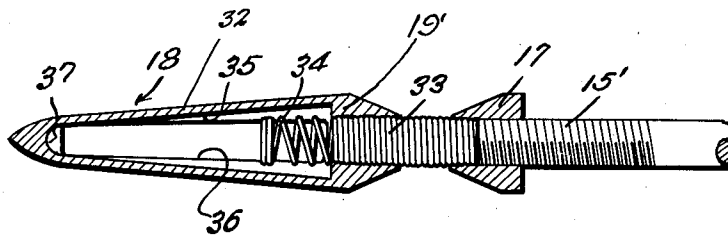
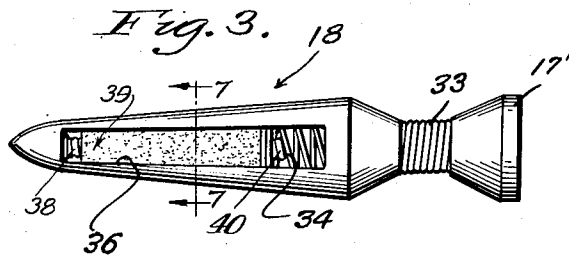


Fig. 4

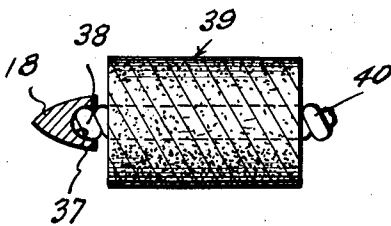


Fig. 5.

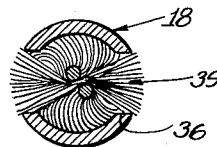


Fig. 6.

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EMBALMING INSTRUMENT

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1 Claim. (Cl. 27—24)

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This invention relates to an embalming instrument, and more particularly to an Iliac blood tube.

A primary object of this invention is the provision of an improved embalmer's instrument characterized by means whereby blood may be drawn from a corpse with a minimum of difficulty.

An additional object of this invention is the provision of such an implement characterized by a removable brush for removing obstructions and the like in the veins of the corpse.

A further object of the invention is the provision of such an implement which is sturdy and durable in construction, reliable and efficient in operation, and relatively simple and inexpensive to manufacture.

Other objects reside in the combinations of elements, arrangements of parts, and features of construction, all as will be more fully pointed out hereinafter and disclosed in the accompanying drawing wherein there is shown a preferred embodiment of this inventive concept.

In the drawings:

Figure 1 is a longitudinal sectional view, with parts broken away, of the entire combination of elements making up the present device;

Figure 2 is an enlarged, partially broken away, longitudinal sectional view of the right hand or outer portion of Figure 1.

Figure 3 is an enlarged elevational view of a constructional detail of the embalming tip.

Figure 4 is a longitudinal section through the embalming tip, with the brush removed and a portion of the operating rod in place.

Figure 5 is an elevational view of the brush shown inserted in a portion of the embalming tip, the latter being shown in section; and

Figure 6 is a cross section taken on line 6—6 of Figure 3, showing the brush within the holder.

Similar reference characters refer to similar parts throughout the several views of the drawing.

Having reference now to the drawings, the device is comprised of a curved outer sheath or tube 10, provided at its extremity with spaced inlet apertures 11. The opposite end of the curved tube 10 is connected by a lock nut 12, to a drainage section 13 provided with an offset outlet tube 14, adapted to be connected to a suitable drainage hose (not shown), and the outer end of the tube is sealed as by a lock nut 14'. The connections encompassed by the lock nuts 12 and 14' will be more fully described hereinafter. Extending within the full length of the

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tube 10 is an operating rod 15, provided exteriorly of the lock nut 14' with the transverse handle 16, and provided at its lower extremity with a leather plunger 17, and a brush holding member generally indicated at 18. The plunger 17 is of usual construction wherein it is retained in position between metal disks 17', 17''. The rod 15 is of such a length that when completely inserted in the tube 10 the brush holder 18 extends exteriorly of the forward tip thereof.

Referring now particularly to the connection of the tube 10 to the outlet section 13, it will be seen that the locking nut 12 engages a threaded collar 24 suitably secured in any desired manner, as by welding to a point near the extremity of the tube 10. An extending portion 20 of the tube 10 extends interiorly of the tube 13, and is bevelled at its edges as at 21 to reduce the possibility of obstruction of the tube to a minimum. Positioned between the collar 24 and the rim 22 of lock nut 12 is a smooth collar 23 secured in any desired manner, as by welding, to the outer extremity of drainage section 13, while positioned between collars 23 and 24 is a leak proof gasket 19. This arrangement permits the entire outlet assembly including offset tube 14 to be rotated and locked at any desired position of rotation on portion 20 of tube 10.

The outer end of the tube 13, closed by the lock nut 14', in such manner as to permit the free sliding of the rod 15 in fluid tight relation thereto includes an externally threaded collar 25 suitably secured as by welding to the exterior of the tube 13 at its extremity, and adapted to be engaged by the interior threads of lock nut 14'. Positioned interiorly of the collar 25 is a concave metal disc 26, surrounded by a leakproof gasket 27 and abutted on its inner face by a convex composition gasket 28. A metal sealing disc 29 is positioned adjacent the flat surface of the gasket 28, and abutted by an oppositely convex composition gasket 30 which seats within the concave outer extremity 31 of the lock nut 14'.

From this it will be seen that the tube 13 is securely affixed to the tube 10, and sealed in fluid tight relationship at its outer end in such manner that the rod 15 may be moved therein by means of the transverse handle portion 16, without the possibility of any leakage of fluid there-through.

Referring now to the brush holder generally indicated at 18, as will be seen the device is comprised of a substantially conical member 19' tapered at its lower extremity 32 and provided with a longitudinally extending recess into which

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extends a compression spring 33. The extremity of the spring 33 as indicated at 34 extends well forwardly into a recess portion 35 of the head, which portion is provided with oppositely aligned longitudinally extending slots 36.

The inner end of the spring 33 is secured to the leather plunger 17, which in turn threadedly engages the threaded end 15' of the operating rod 15. The tightly compressed coils of spring 33 engage conical member 19' in screw-threaded relation.

The tip of the inner recess 35 forms a conical seat 37 adapted to engage the tip 38 of the wire core or axle of a spiral brush of any desired conventional type provided preferably with a twisted wire core or axle, the brush being indicated generally by the reference numeral 39. The opposite end of the axle or core 40, is adapted to be secured in position by seating in the recess formed in the end of the spring 34. It will be obvious that the brush may be replaced and removed within the head member 18 by simply withdrawing the extending end 34 of the spring 33.

From the foregoing the operation of the device should now be readily understandable. The brush holder 18 is first inserted into a desired vein, and followed by the tube 10. Withdrawal of the handle 16, serves to withdraw the brush and its associated holder, and simultaneously the plunger 17, it being noted that the brush in its insertion serves to clean all blood clots and the like from the vein, and the withdrawal of the plunger 17 starts a flow of blood into the openings 11. This blood then passes through the tube 10 and is drained through the outlet tube 14. It may be here pointed out that the partition between the two apertures 11 serves as a means for cleansing the brush 39 when the same is withdrawn through the tube.

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From the foregoing it will now be seen that there is herein provided a device accomplishing all the objects of this invention, and others, including many advantages of great practical utility and commercial importance.

As many embodiments may be made of this inventive concept, and as many modifications may be made in the embodiment hereinbefore shown and described, it is to be understood that all matter herein is to be interpreted merely as illustrative and not in a limiting sense.

I claim:

In an embalming instrument, a drainage tube having an inlet and an offset outlet conduit, a rod slidable in said tube, a handle on said rod exterior of said tube, fluid tight sealing means at the entrance of said rod into said tube, a releasable fluid tight connection between said tube and said outlet conduit, permitting rotatable adjustment, said connection including means for securing said outlet conduit in any adjusted position, a plunger on the free end of said rod, a brush holder, a brush removably carried by said brush holder, and resilient means interconnecting said brush holder and said plunger.

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