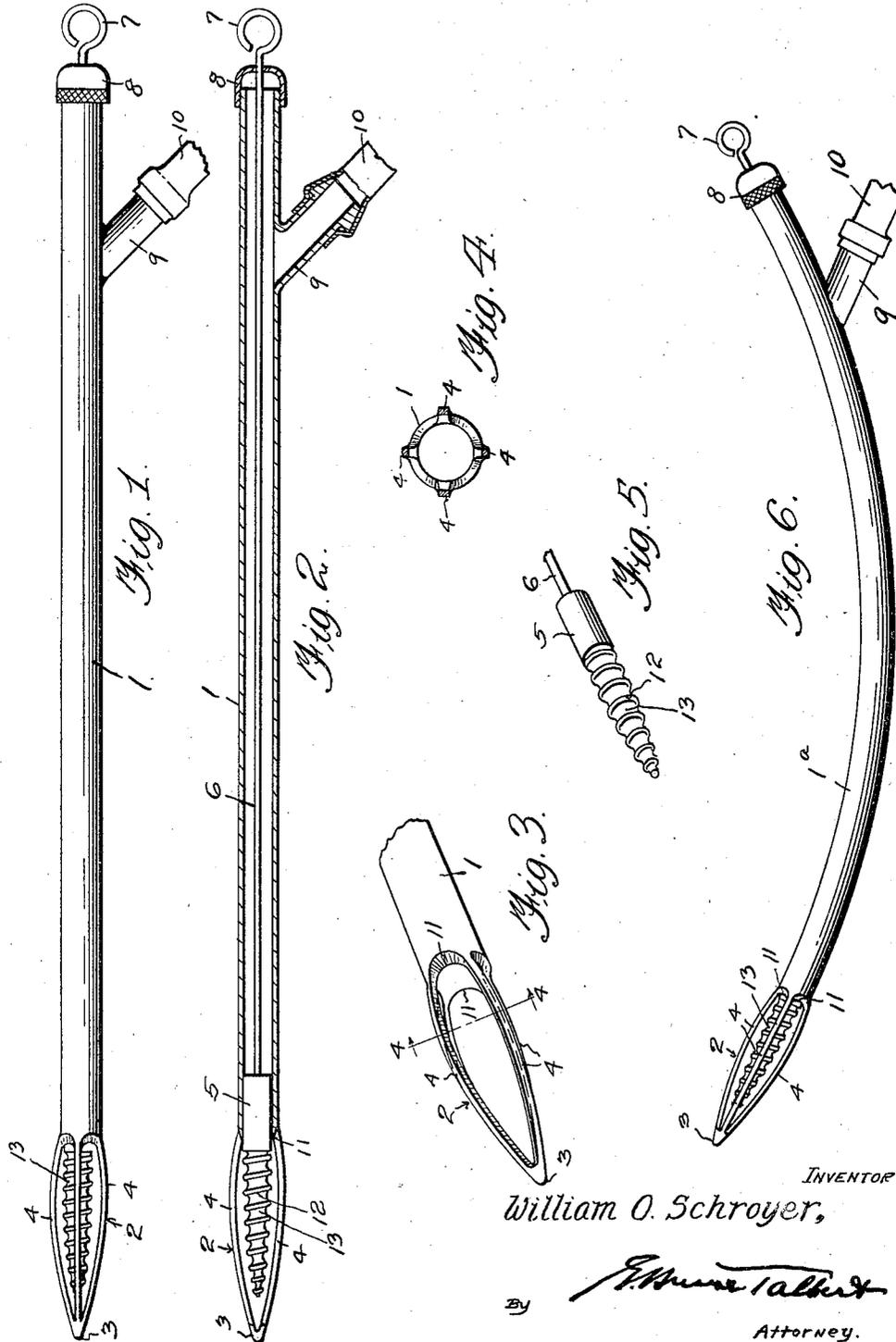


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W. O. SCHROYER
EMBALMING IMPLEMENT
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UNITED STATES PATENT OFFICE.

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EMBALMING IMPLEMENT.

Application filed April 26, 1923. Serial No. 634,769.

To all whom it may concern:

Be it known that I, WILLIAM O. SCHROYER, a citizen of the United States of America, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented new and useful Improvements in Embalming Implements, of which the following is a specification.

The purpose of the invention is to provide an instrument of tubular form with a pointed extremity for ready insertion in the artery or blood vessel and provided with means for keeping the artery open or distended to allow clots and coagulations to enter the instrument, the same being provided with means whereby the clots and coagulations may be broken up to preclude their obstructing free passage through the instrument.

With this object in view the invention consists in a construction and combination of parts of which the drawings illustrate a preferred embodiment without defining the limits of the invention.

In the accompanying drawings:

Figure 1 is an elevational view.

Figure 2 is a longitudinal sectional view.

Figure 3 is an enlarged perspective view of the cage carried at the end of the suction or force tube.

Figure 4 is a section on the line 4—4 of Figure 3.

Figure 5 is a perspective view of the tube cleaner carried at the extremity of the plunger.

Figure 6 is an elevational view showing a modified form of instrument.

The instrument comprises a tube 1 formed at one extremity with a cage generally designated 2, the cage being formed as an integral part of the tube which is drawn to a penetrating point 3 at its extremity and the stock removed to provide spaced strands 4 defining the cage, the strands being bulged outwardly so that when the extremity 3 is inserted in the artery the strands serve to keep the same distended.

Working within the tube there is a plunger 5 reciprocable by means of a plunger rod 6 terminally formed with an exterior operating means such as a finger ring 7, the plunger rod passing through a cap 8 closing that end of the tube remote from the cage. The withdrawal of the plunger rod will obviously move the plunger toward the cap 8 and thus create a suction in the tube tend-

ing to draw the blood from the subject being embalmed, the blood being discharged through a lateral outlet nipple 9 with which a suitable flexible tube 10 is connected. The insertion of the embalming fluid into the corpse may be accomplished in the same way as in removing the blood therefrom with the exception that the plunger injects the fluid on the downward stroke, the fluid being admitted through the tube 10 and lateral outlet 9.

The essential feature of the invention resides in the particular form of cage 2 provided, the end of the tube connecting with the cage having its edges beveled as indicated at 11 between the strands defining the cage, so as to present sharp edges at the interior wall of the tube for cooperative action with the spiral rib 12 formed on a conical cleaner 13 carried by the plunger. Should clots of coagulations accumulate at the cage, in the embalming operation, the upward stroke of the plunger rod will cause the spiral rod of the cleaner 13 to engage such clots and draw them across the sharp edges 11 at the end of the tube so that they will be effectively broken up and thus may pass through the tube in the withdrawal operation for ejection through the outlet 9 and tube 10. Any accumulations remaining in the tube will be broken up by the cleaner 13 on the downward stroke of the plunger since the spiral rod is designed to engage such accumulations and carry them forward to the cutting edges 11 rather than have them bind around the side of the plunger or otherwise cling to the side wall of the tube and thus clog the latter.

Since the plunger is capable of rotary or angular movement in the tube as well as movement longitudinally thereof, it may be turned by means of the finger ring and thus caused to rotate the cleaner so that any obstruction not readily picked up in the reciprocation of the latter may be gathered in the rotating movement of the cleaner.

The modified construction shown in Figure 4 is identical with the construction described in reference to the other figures with the exception that the tube 1^a is of curved or arcuate form thus adapting it for use where a straight tube such as that illustrated at 1 is not adaptable.

Having described the invention, what is claimed as new and useful is:—

1. An embalming implement having a

suction tube and means for creating suction therein, and a cage carried at the end of the tube and consisting of spaced longitudinal strands united at their free ends to provide a penetrating point, said strands being bulged laterally to effect distending of the artery in which the point is inserted, and the tube adjacent the points of connection with the strands being provided with cutting elements.

2. An embalming implement having a suction tube and means for creating suction therein, and a cage carried at the end of the tube and consisting of spaced longitudinal strands united at their free ends to provide a penetrating point, said strands being bulged laterally to effect distending of the artery in which the point is inserted, and the tube adjacent the points of connection with the strands being provided with cutting elements, the suction means having a cleaner for cooperative action with said cutting elements.

3. An embalming implement having a suction tube, a plunger movable therein, a cage carried at the end of the tube and con-

sisting of spaced strands integrally connected with the tube and interconnected at their extremities to form a penetrating point, the end of the tube at the point of connection with the strands being beveled to provide cutting edges at the inner wall of the tube, and a conical cleaner carried by the plunger for cooperative action with said cutting edges.

4. An embalming implement having a suction tube, a plunger movable therein, a cage carried at the end of the tube and consisting of spaced strands integrally connected with the tube and interconnected at their extremities to form a penetrating point, the end of the tube at the point of connection with the strands being beveled to provide cutting edges at the inner wall of the tube, and a conical cleaner carried by the plunger and provided with a spiral rib for cooperative action with the cutting edges to break up blood clots and coagulations.

In testimony whereof he affixes his signature.

WILLIAM O. SCHROYER.