

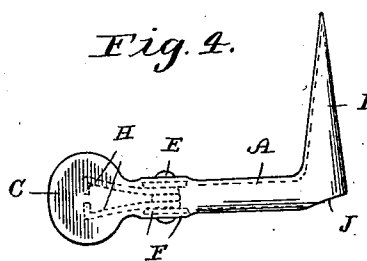
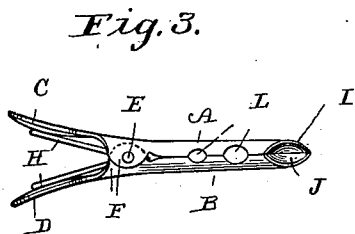
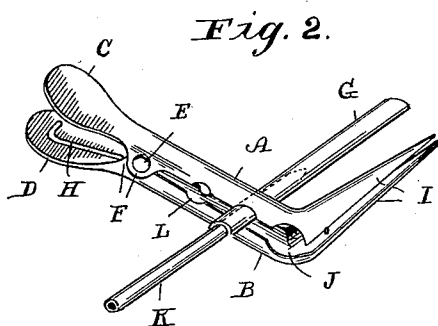
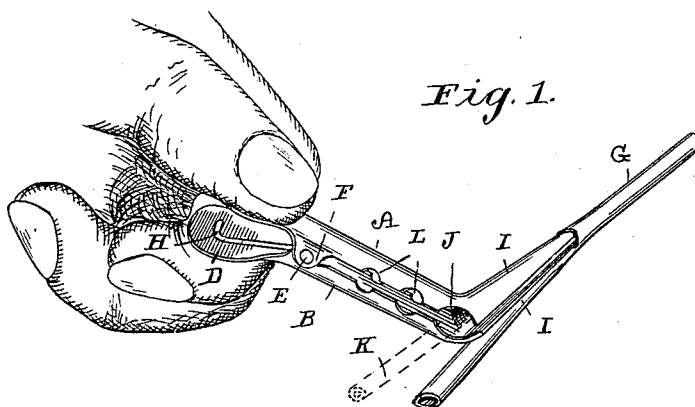
No. 673,598.

Patented May 7, 1901.

C. B. DOLGE.
VEIN OPENER AND CLAMP.

(Application filed July 27, 1900.)

(No Model.)



Witnesses

R. H. Newman
Edward N. Nicholson

Inventor

Carl B. Dolge

By Chamberlain & Newman
Attorneys

UNITED STATES PATENT OFFICE.

CARL B. DOLGE, OF WESTPORT, CONNECTICUT.

VEIN OPENER AND CLAMP.

SPECIFICATION forming part of Letters Patent No. 673,598, dated May 7, 1901.

Application filed July 27, 1900. Serial No. 25,008. (No model.)

To all whom it may concern:

Be it known that I, CARL B. DOLGE, a citizen of the United States, and a resident of Westport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Vein Openers and Clamps, of which the following is a specification.

My invention relates to new and useful improvements in a vein or artery opener and clamp for use by undertakers, embalmers, and like persons in the preparation of bodies for preservation and burial.

It is the object of my invention to provide a combined instrument, as above stated, which is particularly appropriate for embalmers' use and whereby their work may be more conveniently and speedily accomplished; further, to provide an instrument the use of which is several fold, the first being for insertion into a vein or artery, whereby an arterial nozzle or flexible tube may readily, quickly, and accurately be guided for introduction; further, to provide means whereby my instrument may also be employed to clamp said artery or vein down upon said nozzle or tube and hold it firmly thereagainst during the injection of the fluid, and, finally, to produce an instrument for the above purposes which will be cheap to manufacture and simple and practical in its application.

With the above objects in view my invention resides and consists in the novel construction and combination of parts shown in the accompanying sheet of drawings, forming a part of this specification, upon which similar characters of reference denote like or corresponding parts throughout the several figures, and of which—

Figure 1 shows a perspective view of my improved instrument as it would appear in use, the same being shown inserted into a vein and its jaws spread by the fingers of the operator for the insertion of an embalming nozzle or tube. Fig. 2 is a perspective view of the instrument shown in Fig. 1 and illustrating its application for the second use to which it is put. Fig. 3 shows an edge view of the instrument, and Fig. 4 shows a plan view of the same.

My instrument, as will be seen in plan view, is substantially L-shaped, consisting

of a pair of sheet-metal levers hinged together and adapted to be manipulated by the thumb and forefingers of the operator and contains the operative parallel jaws, which are pointed to form a separable conical tubular sleeve.

Referring in detail to the characters of reference marked upon the drawings, A indicates an upper, and B a lower, jaw, both of which are substantially alike in construction, except that one is the reverse of the other in its contour.

C and D indicate the handles or engaging parts of said levers, and E represents the pivotal point, which, as will be noted, engages interlocking ears F, all of which go to form the hinge or pivotal point of the two operative members.

H indicates a spring which is secured to the pin E, before mentioned, with its operative extremities extending rearward and engaging the under side of the handles C and D in a manner to spread the same and retain the jaws in a closed position.

The jaws of my instrument are preferably formed of sheet metal, being stamped up with a concave inner surface and a convex outer surface, so that when assembled, as shown in the drawings, an oval finish is produced to the completed article. As before stated, the jaws extend forward parallel for a short distance and are then provided with right-angle extensions, which I will designate as I. These extensions taper to a point, and the two form a separable conical-shaped tube, as will be seen. Upon the near side of the jaws of the instrument, as shown in the drawings, and at the corner of the angle referred to I provide a concave recess J in the uniting edges of the jaws to form an oval opening, which in practice serves to admit the embalming-nozzle, substantially as shown in Fig. 1, the operating of the instrument in this connection being as follows: The operator first severs or cuts an opening in the vein G to be inflated, whereupon the reduced point of my instrument is inserted into the opening so produced in said vein or artery, after which the operator presses upon the handles in a manner to slightly open or spread the jaws and opening, as indicated in Fig. 1, whereupon the embalming-nozzle is inserted through the open-

- ing J and forced down through and out of the point of the conical tube and into the vein or artery in question. After the embalming instrument is placed as above my improved device is slipped out of the vein and a further pressure is applied to the handle and the jaws spread sufficiently to permit of the detachment of the instrument from the embalming instrument.
- 10 Within the uniting edges of the main portion of my instrument I arrange one or more openings L, as clearly appear in Figs. 1, 2, and 3, which in practice serve to straddle and engage the periphery of the vein in a manner to clamp the same down firmly upon the embalming nozzle or tube while the latter is arranged within said vein for the purpose of preventing leakage or the backflow of blood or fluid during the time of injection.
- 15 From the foregoing description it will be seen that I provide a combined instrument which is very desirable and convenient in the matter of embalming bodies, since it serves a twofold purpose and can be produced at a minimum cost.
- 25 In the production of my improvement I do not wish to be limited to the details of con-

struction herein shown, since variations may readily be made which justly come within the scope of my invention.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In a vein opener and closer, the combination of a pair of spring-actuated jaws having a conical-shaped operative extremity and one or more pairs of concave recesses in the uniting faces of said jaws forming substantially round openings, as and for the purpose described.

2. In a vein opener and closer the combination with a pair of spring-actuated jaws, of a series of transverse openings in the uniting faces thereof and a conical-shaped separable tubular extension formed at substantially a right angle to the main body of said jaws, as and for the purpose set forth.

Signed at Bridgeport, in the county of Fairfield and State of Connecticut, this 25th day of June, A. D. 1900.

CARL B. DOLGE.

Witnesses:

C. M. NEWMAN,
ELBERT O. HULL.