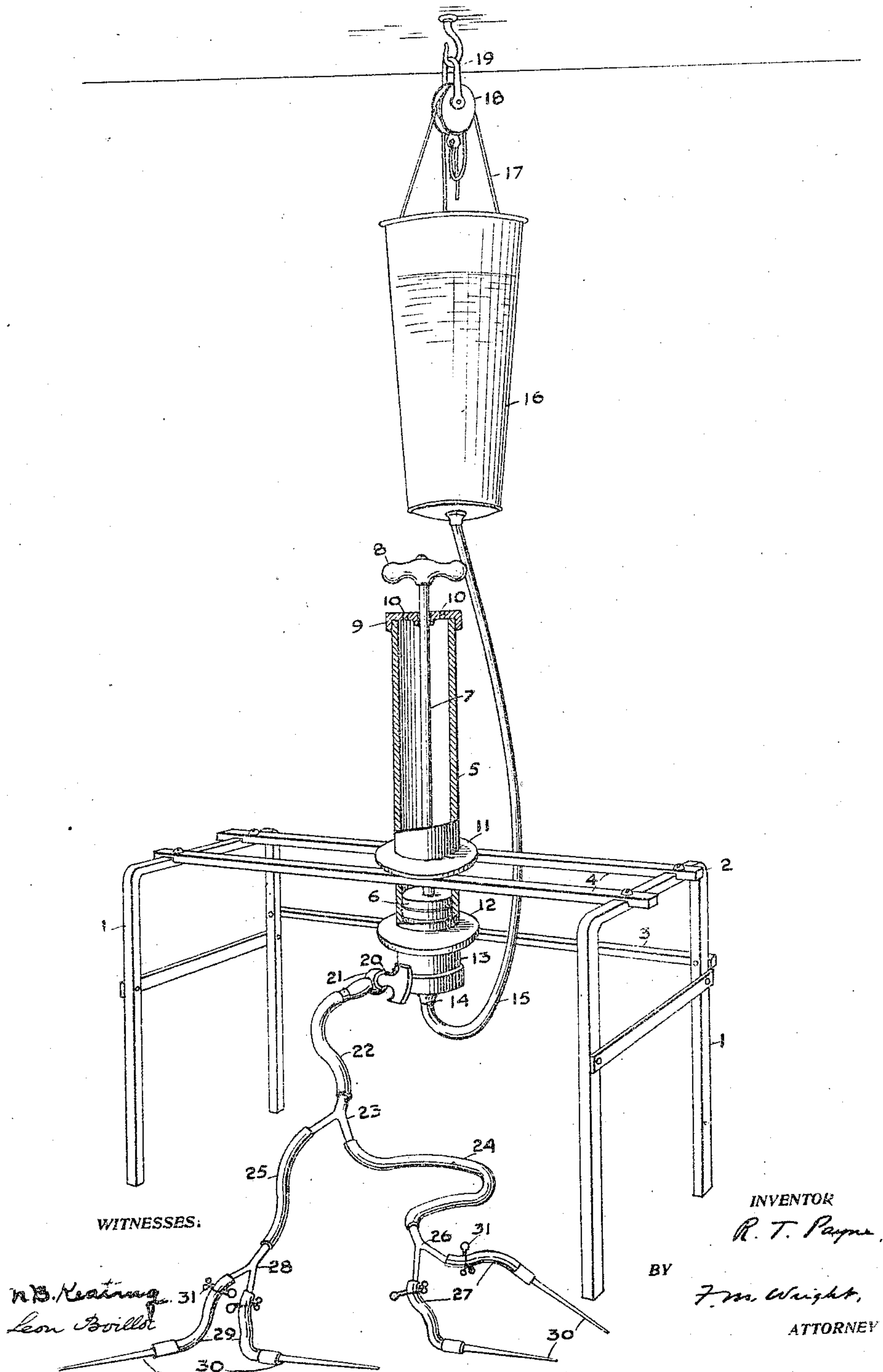


R. T. PAYNE.
 EMBALMING INSTRUMENT.
 APPLICATION FILED MAY 12, 1910.

Patented Aug. 9, 1910.

966,591.



UNITED STATES PATENT OFFICE.

RICHARD T. PAYNE, OF SAN FRANCISCO, CALIFORNIA.

EMBALMING INSTRUMENT.

966,591.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed May 12, 1910. Serial No. 560,806.

To all whom it may concern:

Be it known that I, RICHARD T. PAYNE, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented new and useful Improvements in Embalming Instruments, of which the following is a specification.

The present invention relates to an improvement in embalming instruments, the object of the invention being to provide an instrument of this character by which the operation of embalming can be performed with comparative ease and very effectively.

In the accompanying drawing, the figure is a perspective view of the apparatus, certain parts being shown in vertical section.

Referring to the drawing, 1 indicates the end pieces of a frame or stand 2, secured together at the back by a bar 3, and at the top by two parallel bars 4.

5 indicates a pump cylinder, in which reciprocates a plunger 6, having a stem 7 adapted to be operated by a handle 8. The upper end of the cylinder is closed by a cap 9 through which the stem of the plunger passes, said cap having two holes 10 therein to permit the escape of air when the plunger is drawn up. The cylinder is supported upon the two parallel bars 4 by a flange 11, while at the same time it can be moved longitudinally of the frame and can also have a limited tilting movement. Below said flange 8 is a second flange 12. Connected to the lower end of said cylinder is a pipe 13 extending in line with the axis thereof, and terminating in a nozzle 14 to which is connected a rubber hose pipe 15, leading from a vessel 16 adapted to be suspended at any suitable height by a cord 17 leading over a pulley 18, which is itself suspended by a cord 19 from a suitable support, as the ceiling of a room. Extending laterally from the lower end of said cylinder 5 is a pipe 20, having therein a valve 21, and on the end of said pipe is a flexible tube 22 connected by a Y coupling 23 with two flexible tubes 24, 25. The tube 24 is for use with the femoral arteries and the tube 25 for use with the bronchial arteries. The tube 24 is connected by a Y-coupling 26 with two flexible tubes 27 and the flexible tube 25 is connected by a Y-coupling 28 with two flexible tubes 29.

Secured to the ends of the flexible tubes 27, 29, are finely pointed nozzles 30. Each of rubber tubes 27, 29 has thereon a pinch cock 31 so that in case one, two or three nozzles need to be closed, they can be shut off in a moment. In case they all need to be closed, this can be done by turning the valve 21.

The instrument is used in the following manner: The stand with the cylinder thereon is suitably placed relatively to the corpse to be treated. The respective nozzles are introduced into the femoral and bronchial arteries. By pulling upward upon the handle of the pump a powerful suction is created through said nozzles, which tends to loosen the heavy liquid substances which are generally found in the arteries after death, thus permitting the embalming fluid to penetrate into said arteries and to pass fully there-through. The glass receptacle is lowered and a sufficient quantity of embalming fluid is poured thereinto, and then it is raised into position by means of the pulley. When elevated to such height as the condition of the body may require, the fluid will flow by gravity down through the rubber hose into the air pump and therefrom into the respective nozzles and thence into the arteries, no pumping being ordinarily necessary. At the same time the pressure on the fluid can be increased, if necessary, by the application of force to the pump plunger.

I claim:

The combination of a frame, a cylinder movably supported upon said frame, a plunger therein having a stem extending through the top of said cylinder, a hose pipe connected to the lower portion of said cylinder, a vessel connected to the upper end of said pipe, means whereby the height of the vessel may be varied, flexible pipes, means for connecting them to the lower end of the cylinder, and finely pointed nozzles connected to the ends of said pipes remote from the cylinder, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

RICHARD T. PAYNE.

Witnesses:

F. M. WRIGHT,
D. B. RICHARDS.