J. SORENSEN.

VACUUM SUCTION DEVICE.

APPLICATION FILED AUG. 15, 1916.

1,221,103. Patented Apr. 3, 1917

Fig. 1

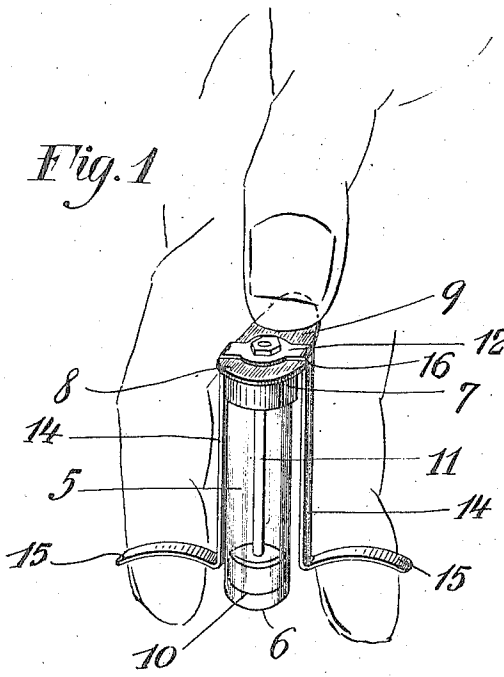


Fig. 2

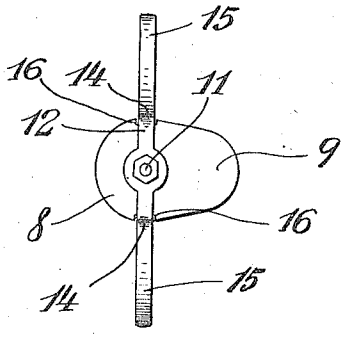


Fig. 3

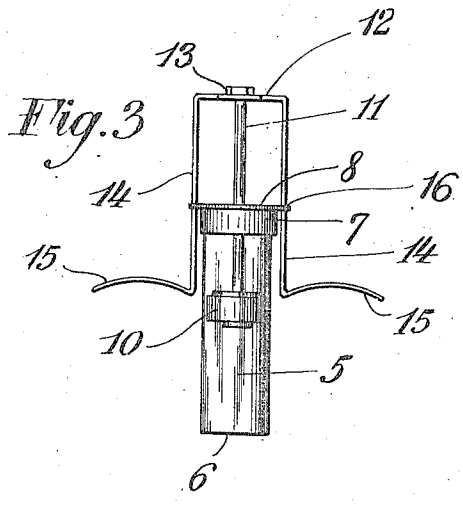
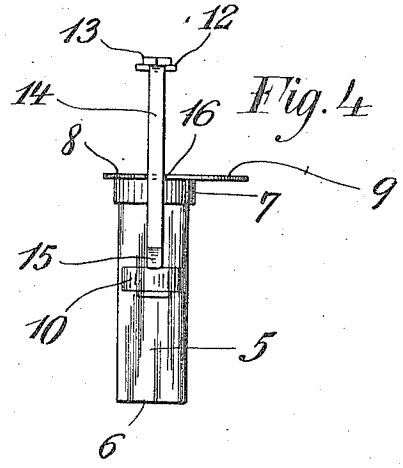


Fig. 4



John Sorensen Inventor

By his Attorney

Ivan E. A. Konigsberg.

UNITED STATES PATENT OFFICE.

JOHN SORENSEN, OF BROOKLYN, NEW YORK.

VACUUM SUCTION DEVICE.

1,221,103. Specification of Letters Patent. Patented Apr. 3, 1917.

Application filed August 15, 1916. Serial No. 114,941.

To all whom it may concern:

Be it known that I, JOHN SORENSEN, a citizen of the United States, and resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Vacuum Suction Devices, of which the following is a specification.

The object of my invention is to provide a generally improved vacuum suction device adapted to be operated by one hand and of such a size that it may be easily carried about and used as a first aid instrument in cases of poisonous snake or insect bites or similar cases, the idea being that when a person is bit by a snake or insect, the application and operation of my suction device serves to draw out or suck out the poison in the wound and prevent it from spreading. Obviously such a device is of great utility for soldiers and travelers in the tropical zones.

With the above and other objects in view my invention is embodied in a vacuum suction device constructed as hereinafter described and as illustrated in the accompanying drawing in which—

Figure 1 is a perspective view of a device embodying my invention and illustrating the use thereof.

Fig. 2 is a plan view of the device, and

Figs. 3 and 4 are views in elevation at right angles to each other.

In the drawing the reference numeral 5 denotes a pump cylinder or cup preferably made of glass. The lower end or mouth 6 is open, while the upper end is closed by a cap 7 provided with a top plate 8 which is extended as shown to afford a finger rest 9. 10 is a piston of any suitable construction adapted to move substantially airtight within the cylinder 5 by operation of the piston rod 11. The latter is actuated by means of the crosshead 12 which is secured to the piston rod by a nut 13. The crosshead is formed with two diametrically opposed guide rods 14, 14 which form handles 15, 15. The guide rods 14 slide in notches 16, 16 in the top plate 8.

In operation the thumb of the operator is placed upon the finger rest 9 and the first and second fingers grip beneath the handles as shown in Fig. 1. The mouth 6 is placed over the wound or spot where the suction is to be applied and by a simple closing of the fingers, the piston is drawn up into the cylinder and the poisonous matter sucked or pumped into the latter and may thereafter be removed as will be understood. The operation may thereafter be repeated until the wound is in condition for dressing or other application.

Similarly the device may of course be used for massaging purposes.

It will be noted that the device is quite small and easily operated by either hand to be applied to nearly all parts of the body. The guiding rods 14 are made quite stiff and their moving in the notches 16 insures an even steady pull upon the piston.

While I have illustrated my invention as embodied in a preferred form, I do not thereby intend to be limited to the exact details shown, but claim such changes and modifications as are within the scope of the appended claim.

I claim:—

A vacuum suction device comprising a pump cylinder, a piston movable therein, a cap and top plate for closing the upper end of the cylinder, a piston rod secured to the piston and projecting through said top plate, a cross head secured to the piston rod, oppositely disposed guide rods integral with said cross head and forming operating handles and means in said top plate for guiding the said guide rods.

Signed at New York in the county of New York and State of New York this 14th day of August, A. D. 1916.

JOHN SORENSEN.