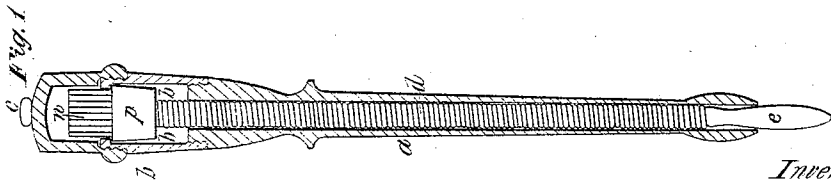
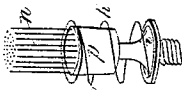
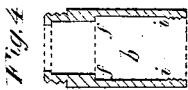
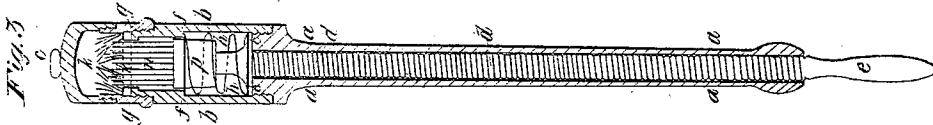
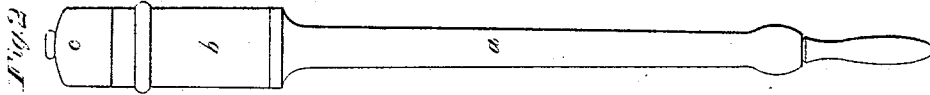


A. Stauch,
Scarificator.

N^o 28,697.

Patented June 12, 1860.



Witnesses:

H. Rosenthal
J. Stein

Inventor:

Alfred Stauch,

UNITED STATES PATENT OFFICE.

ALFRED STAUCH, OF PHILADELPHIA, PENNSYLVANIA.

APPARATUS FOR INOCULATING.

Specification of Letters Patent No. 28,697, dated June 12, 1860.

To all whom it may concern:

Be it known that I, ALFRED STAUCH, of the city of Philadelphia, in the State of Pennsylvania, have invented a new and Improved Apparatus for Applying Baunscheidtism; and I do hereby declare that the following is a full and exact description of the construction and operation of the same, reference being had to the model, and to the annexed drawings, making a part of this specification, in which—

Figure 1 is a view of the original instrument. Fig. 2 is a front view of the improved instrument. Fig. 3 is a transverse section of the improved instrument. Fig. 4 is a view of the chamber. Fig. 5 is a view of the piston, needles and spring. Fig. 6 is a view of the circular hair-brush. Fig. 7 is a view of the ring.

The instrument is intended to perform or to assist in performing the operations required in the application of the medical system known as Baunscheidtism, which claims to cure diseases by inoculating into the sick human body a certain oily fluid (oleum) prepared by Baunscheidt in Germany, and thereby withdrawing the diseased matter from the human system.

The instrument heretofore used (Fig. 1) for assisting in the required operations has been publicly described and has been in use about eleven years. It consists of a number of steel-needles, *n*, fastened into a composition-piston, *p*, which are operated on by means of a spring, *d*, within a tube, *a*, so as to push the needles, *n*, into the skin of the human body. The openings thus made by the needles are filled with the aforesaid oily fluid, by means of a separate brush, feather or other contrivance.

Now the nature of my invention consists first in combining the various processes and operations required and thereby securing greater efficiency in applying Baunscheidtism, by means of a circular hairbrush (Fig. 6) *h*, fastened around the needles by a ring (Fig. 7), *g*, and secondly in removing and avoiding the disagreeable scratching of the skin by the needles, by means of a spring, *h*, which keeps the piston, *p*, steady and secures the instantaneous and spontaneous withdrawal of the needles from the skin after the operation has been performed.

To enable others skilled in the art to make

and use my invention I will proceed to describe its construction and operation.

The exterior of the instrument, Fig. 2, presents the form of a cylindrical case, is made of ebony and consists of a tube, *a*, running out into and connected with a chamber, *b*, covered by a top-piece, *c*.

The tube, *a*, Fig. 3, is constructed in such a form as to receive and afford ample play to the spring, *d*, with its handle, *e*. The spring, *d*, within the tube, *a*, forms the connecting rod and is fastened to the lower side of the basis, *i*, of the piston, *p*, which rests on top of the tube, *a*.

The chamber, *b*, Fig. 4, forming on the outside the prolongation of the tube, is screwed on to the latter. About half of its inside lower part, *f*, is wider than the upper part to such extent as to afford full play to the spring, *h* winding around the piston, *p*.

The piston, *p*, Fig. 5, is made of an alloy of zinc and tin in any shape, that will admit its playing freely within the upper narrow part of the chamber, and with a basis, *i*, fitting loosely into the lower wider part of said chamber. There are inserted firmly into the upper end of the piston a number, say 30, of steel needles, *n*, extending about a quarter of an inch out of and over the chamber, *b*. The spring, *h*, around the piston, *p*, plays within the lower part of the chamber, *b*, resting on the basis, *i*, of the piston, *p*, and pressing upward against the projecting part, *f*, of the chamber. It must be made of sufficient strength to secure the rebounding of the piston.

On top of the chamber is an open circular hair-brush, *h*, Fig. 6, with its hair set inclining toward the center, so as to surround and project over the needles and cover their points, when in a state of rest. To keep the brush, *h*, firmly in its place, a ring, *g*, Fig. 7, about half an inch high, having screw-windings at its lower inside and at its upper outside, is screwed down around the upper end of the chamber, *b*, and around the base of the circular hair brush, leaving the hair part of the brush still projecting.

Having thus given a description of the parts I will now describe the purposes and operation of my invention. When the instrument is to be applied, the hair-brush, *h*, must be oiled. The hair covering the needles, *n*, imparts some oil to them. The in-

strument being then with the upper end of the ring, *g*, firmly placed against the part of the body to be operated on, the oily part of the brush comes in contact with the skin, making this also oily and soft and preparing it most efficiently for the operation. This consists in the spring, *d*, being drawn out of the tube, *a*, by its handle, *e*, about one and one-half to two inches, and then quickly letting it go, thus pushing the needles affixed to the piston, into the skin as far as desirable. Now as the needles, *n*, oiled as they are, pass through the oiled brush into the oiled skin, there is consequently the most perfect injection or inoculation of the oil into the openings insured, after which the operation of the spring, *k*, secures the instantaneous withdrawal of the needles by pressing against the basis, *i*, of the piston, *p*,

and against the projection, *f*, within the chamber. Thus there is no variation of the needles when being withdrawn; and consequently no scratching of the skin is possible. The whole operation is by this my invention reduced to a single moment, while with the original instrument it requires from ten to fifteen minutes at least.

What I claim as my invention and desire to secure by Letters Patent is—

The combination and arrangement of the chamber *b*, piston *p*, spiral spring *k*, circular hair-brush *k* and ring *g* with the tube *a*, spring *d* and needles *n* in the manner and for the purpose specified.

ALFRED STAUCH.

Witnesses:

W. ROSENTHAL,
J. HEIN.