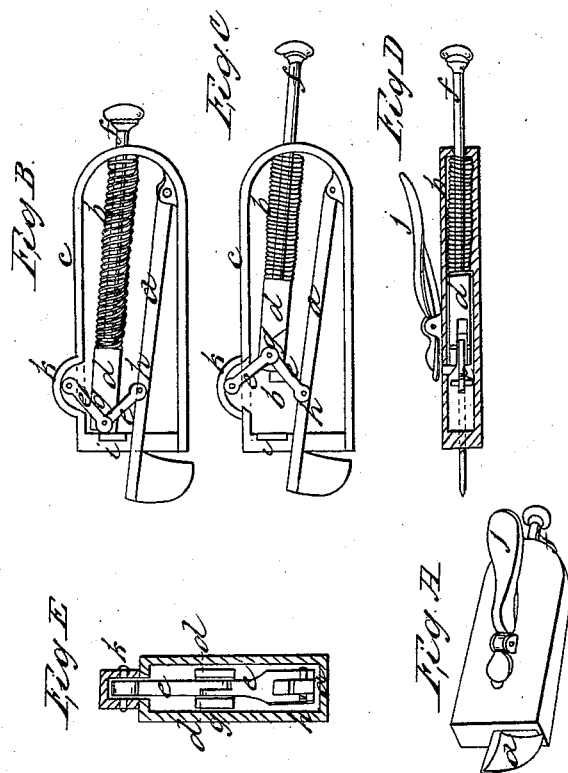


J. M. Van Osdel,

Lancet,

No 2,061,

Patented Apr. 24, 1844.



UNITED STATES PATENT OFFICE.

JOHN M. VAN OSDEL, OF CHICAGO, ILLINOIS.

SPRING-LANCET.

Specification of Letters Patent No. 2,061, dated April 24, 1841.

To all whom it may concern:

Be it known that I, JOHN M. VAN OSDEL, of the city of Chicago, county of Cook, and State of Illinois, have invented a new and Improved Mode of Making Spring-Lancets; and I do hereby declare that the following is a full and exact description.

The nature of my invention consists in causing the blade of the lancet to react, so that it is brought instantaneously to its first position—that is to say, the blade is driven into, and out of the vein, by one motion of the spring; the click of the lancet is entirely subdued, by placing a piece of cork or leather for the bolt of the spring to strike against, after it has performed the required motion.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

I proceed to construct a case, or box of silver, brass, or other metal, of a convenient shape to contain the machinery of the lancet; I make the cases generally about two inches long, three fourths of an inch wide, and one-quarter of an inch thick; one end of the case is semi-circular, and the other end is square; one of the sides of the case is fitted in grooves so as to slide off, (similar to the common spring lancet case). A perspective view is shown of this case at A, of the accompanying drawing.

To construct the machinery—*a, a*, on Figures B and C represent the blade of the lancet, constructed in the ordinary manner; *c, c*, the thickness of the edge of the case.

d, d, d, is a pin of steel called the bolt. *f f f* is a round steel rod, firmly secured to the bolt by being screwed into it, or welded to it; on the end of the rod *f* is a small knob, (of similar metal to the case).

The bridle pieces *e, e, e, e*, are attached to the bolt *d*, by the steel pivot at *g*; the lower bridle piece is attached at *h*, to the blade *a*, by a steel screw—the upper bridle is pivoted to the edge of the case at *k*, by means of a steel screw; the construction of the bridle pieces are shown at E, on an en-

larged scale where the same letters refer to the different pieces and pivots; as on the Figs. B, C, and D.

b, b, b, is a strong spiral spring of steel or brass wire which is retained in its place by the rod *f* passing through it; one end of the spring rests against the circular end of the case, and the other end presses against the bolt *d*.

A lever is placed on the side of the case (similar to the common lancet). This lever is shown at *j*, on Figs. A and D. A small steel cam is attached to this lever, which projects inside of the case, and retains the bolt *d*, as shown at *l, l*, on Figs. C, D.

It will be observed that a small circular projection is made on the edge of the case as shown at *k, k, k*, this admits of the bridle pieces being made considerably longer, which is a great advantage.

Fig. B represents the lancet after it is sprung; the bolt *d*, rests against the cork or leather piece at *i*; to set the lancet, take the case in the left hand and then with the thumb and forefinger of the right hand, raise the knob on the rod *f*, and draw the rod outward until the cam *l* catches the end of the bolt *d*, as shown on Fig. C, where the lance is set; then by pressing the thumb on the lever *j*, the cam *l*, is withdrawn, which liberates the bolt *d*, which is instantly carried to the point *i* by the pressure of the spring *b*, and the bridle pieces *e, e*, carry the lance down, and up, with great force, and a quick motion.

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

The giving a reacting motion to the blade of a spring lancet, by the combination of the spiral spring, and the compound cranks, or bridle pieces *e, e*, as herein set forth; also I claim the method of setting the lance by simply drawing back the rod *f*, as herein set forth.

JOHN M. VAN OSDEL.

Witnesses:

SAMUEL JONES,
Jno. M. DEVOY.