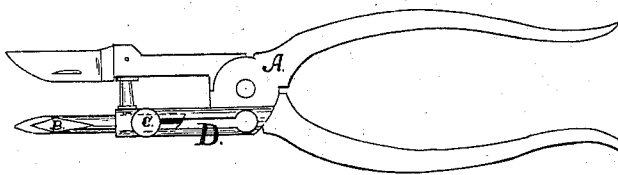
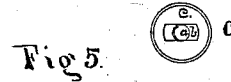
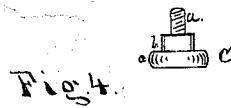
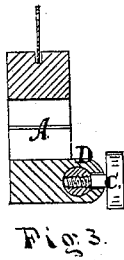
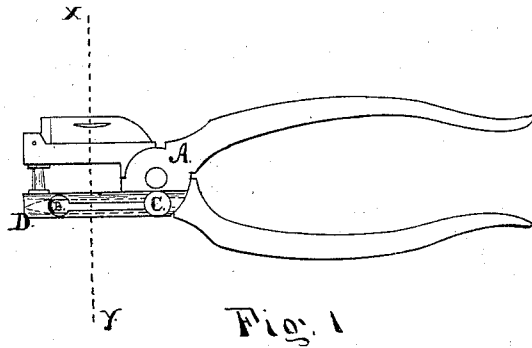


A. N. SOUTHWICK.

Belt-Punches.

No. 135,734.

Patented Feb. 11, 1873.



WITNESSES

O. P. Greene
J. Brown Lord

INVENTOR

Albert N. Southwick,
by J. E. Maynard
his atty

UNITED STATES PATENT OFFICE.

ALBERT N. SOUTHWICK, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN BELT-PUNCHES.

Specification forming part of Letters Patent No. 135,734, dated February 11, 1873.

To all whom it may concern:

Be it known that I, ALBERT N. SOUTHWICK, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Tools for Punching Leather Belts, of which the following is a specification:

My invention is an improvement upon the well-known tool for punching belts which combines a knife and awl with the punch by affixing one to each jaw of the punch. The object of my invention is to combine with the punch an awl which can be put in a position for use and firmly fixed and withdrawn when desired more easily than the awl now in use can be.

In the drawing, Figure 1 is an elevation of my improved tool with the awl closed or drawn in and the knife closed. Fig. 2 is an elevation of the same tool with the knife open and the awl thrust out for use. Fig. 3 is a section of Fig. 1 through the line *xy*. Figs. 4, 5, and 6 are an elevation of the thumb-screw by which the awl is moved out and in, and fixed in the desired position, and a plan of this screw, full size, and an elevation of the awl.

In these figures, A is the punch. B is an awl, which slides in a sleeve, D, formed on one jaw of the punch. In this sleeve a slot is cut, having at each end a hole of diameter larger than the width of the slot. The hole nearest to the handles is shown in Fig. 2, and the other hole is shown in Fig. 1. C is a thumb-screw, which screws into the awl, and, if properly adjusted, plays back and forth in the slot D, and turns in the holes at the ends of the slot. This thumb-screw is of different shape in various different parts. The part *a* is a common screw and screws into the awl. The part *c* is the head of the thumb-screw. The part *b* is flattened, as shown in Figs. 4 and 5. By turning the thumb-screw so as to present the part *b* lengthwise to the slot the

awl can be slipped out or in with perfect ease, and at either end of the slot the screw may be turned in the holes there placed so as to bring this part crosswise to the slot; and the awl is then firmly held either out or in, as may be desired.

It is obvious that the thumb-screws may be made in several ways to produce the desired result. The part *b* may be round and smaller than the slot, and the awl may be fixed by so screwing in the thumb-screw that its inner end shall press against the further side of the sleeve or work into holes in the further side of the sleeve opposite the ends of the slot, or the part *b* may be made of larger diameter than the slot, so that by screwing in the thumb-screw it will press against the outer surface of the sleeve or fit into holes or against the projections there; but the arrangement shown in the drawing is that which I deem best.

I do not claim the combination of awl and punch, for that is well known; nor do I claim the combination of a sliding awl and punch, for I am aware that in the patent issued to Holmes and Williams, dated May 16, 1871, an awl is described which slides in a groove in the jaw of a hand-punch; but in that instrument the sliding is merely to enable the awl to be revolved into position and be held when it is revolved. My invention is limited to the special combination described, in which the awl is placed and held in the positions desired by sliding it in and out of a sleeve by means of a thumb-screw.

What I claim as my invention is—

The combination of the punch A, slotted sleeve D, awl B, and thumb-screw C, constructed and arranged together as specified.

ALBERT N. SOUTHWICK.

Witnesses:

O. P. GREENE,
J. E. MAYNADIER.