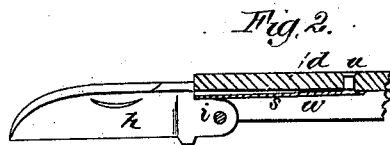
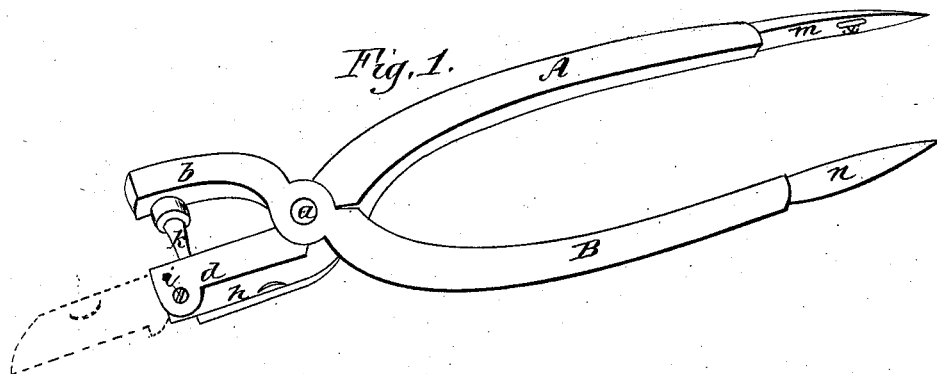


E. C. C. Kellogg,

Belt Fastener.

N^o 52,645.

Patented Feb. 13, 1866.



Witnesses.

J. M. Combs.
Geo. W. Reed

Inventor.
E. C. C. Kellogg
per Brown Combs & Co.
attys.

UNITED STATES PATENT OFFICE.

E. C. C. KELLOGG, OF HARTFORD, CONNECTICUT, ASSIGNOR TO HIMSELF,
S. F. BENNETT, AND D. H. BURRILL, OF LITTLE FALLS, NEW YORK.

IMPROVED LACING DEVICE.

Specification forming part of Letters Patent No. 52,645, dated February 13, 1866.

To all whom it may concern:

Be it known that I, E. C. C. KELLOGG, of the city and county of Hartford, in the State of Connecticut, have invented a new and Improved Implement for Lacing or Joining the Ends of Machine-Belts; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view. Fig. 2 is a detached partial section of a portion of the device.

Similar letters of reference indicate similar parts in all the drawings.

The object of this invention is to produce a compact implement by the use of which the different operations of trimming the ends of the belt, punching the holes, enlarging the same when necessary, and inserting the lacing therein may be conveniently and quickly performed; and it consists in a novel combination and arrangement in one implement of a knife for trimming or cutting off the ends of the belt, a punch for making the holes, an awl for enlarging them, and a needle for passing the lacing through them, all arranged with reference to each other in such a way that each will perform its appropriate function as well as if placed upon a separate handle and forming a separate implement.

To enable those skilled in the art to understand the construction and operation of my invention, I will proceed to describe it with reference to the drawings.

The body of the implement may be described as an ordinary belt-punch consisting of two levers, A and B, pivoted together at *a*, the short arm *b* of one lever being provided with a hollow punch, *k*, which perforates the belt or other material, which is supported during the operation by the short arm *d* of the other lever.

The arm *d* of the lever A, instead of being made solid, as in the common belt-punch, has a deep groove, *w*. (Shown in Fig. 1.) Pivoted in this groove at the outer end of the

arm *d* is a knife-blade, *h*, which projects outward, as shown in Fig. 2 and by dotted lines in Fig. 1. This knife, when not in use, is folded or shut into the groove *w*, and is retained in either an open or closed position by a spring, *s*, secured in the bottom of the groove by a rivet, *u*, and acting on the rear-most end of the blade, as represented in Fig. 2.

The end *m* of the long arm of the lever A is made cylindrical in its cross-section and tapers to a point, and has near its point an eye or hole, *x*, which passes through it. This end *m*, thus shaped, forms a needle, which is used in passing the lacing through the holes in the belt. The end of the long arm of the lever B is also tapered to a point, and is intended to be used as an awl to enlarge the said holes, when necessary, previous to passing the lacing through them.

Such being the construction of the device, it is employed as follows: The blade *h* is used to cut or trim the ends of the belt, as with an ordinary knife, and the holes are punched therein by the punch *k* in the usual way. If the hole is not large enough, the awl *n* is thrust into it and worked around until the required enlargement thereof is obtained. The lacing-string is passed through the eye *x* of the needle *m*, which is then pushed into the hole until the eye *x*, carrying the lacing with it, comes out at the opposite side of the belt. The lacing is then pulled through the hole in the belt and out of the eye of the needle, and the same operations are repeated in forming the remaining holes and passing the lacing through them. The lacing is drawn tight and arranged with reference to the belt in any of the usual ways.

What I claim as new, and desire to secure by Letters Patent, is—

The punch *k*, knife-blade *h*, needle *m*, and awl *n*, arranged with reference to each other upon the pivoted levers A B, substantially as set forth, for the purpose specified.

E. C. C. KELLOGG.

Witnesses:

JAMES WATSON,
WILLIS W. CLARKE.