

G. R. EVERSON.
Belt-Punch.

No. 213,984.

Patented April 8, 1879.

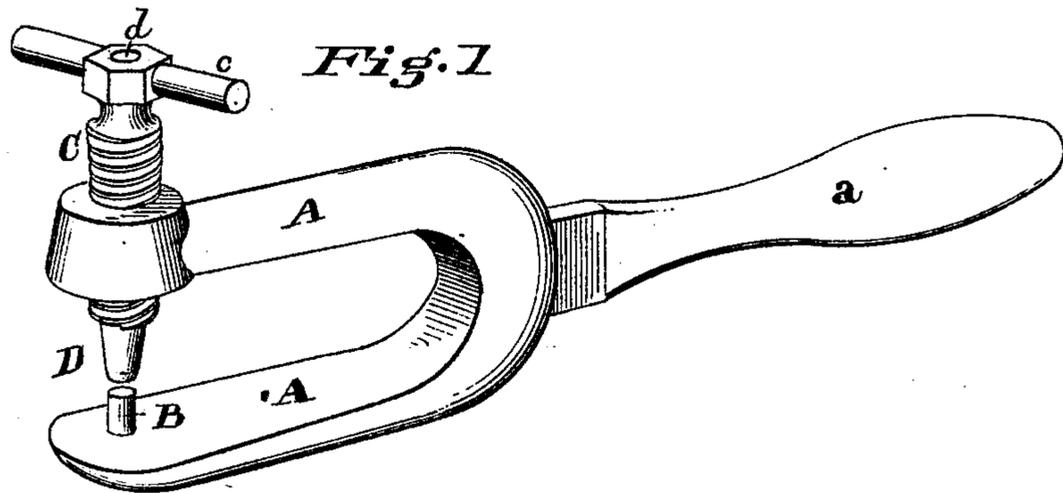


Fig. 1

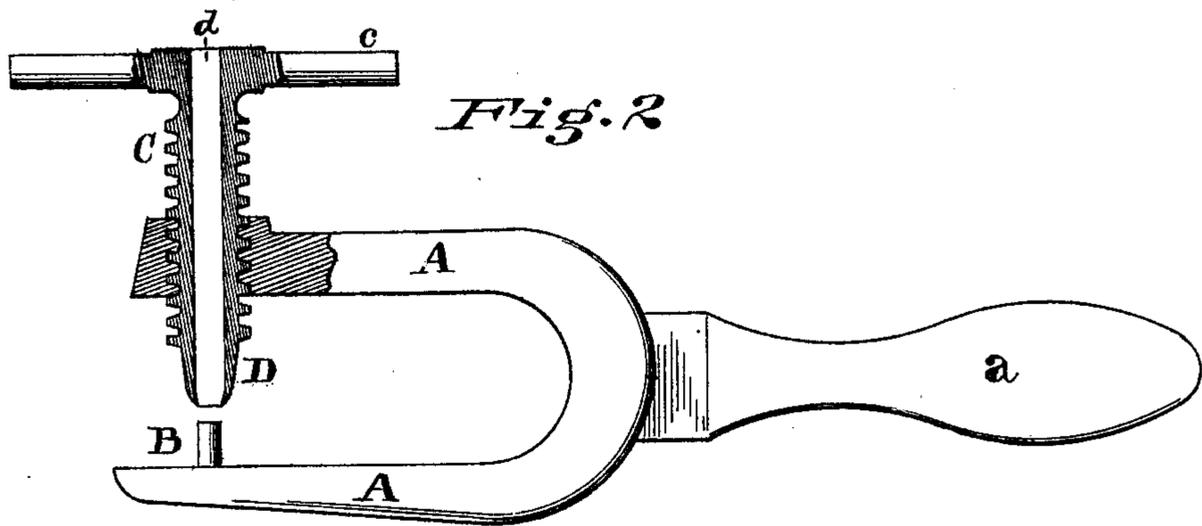


Fig. 2

Attest

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IMPROVEMENT IN BELT-PUNCHES.

Specification forming part of Letters Patent No. **213,984**, dated April 8, 1879; application filed January 18, 1879.

To all whom it may concern:

Be it known that I, GEORGE R. EVERSON, of Cincinnati, county of Hamilton, and State of Ohio, have invented a certain new and useful Machine-Belt Punch, of which the following is a specification:

My invention has for its object to get rid of the inconveniences and annoying obstacles attending the ordinary methods of punching the lacing-holes in machine-belt, which inconveniences, as well as certain risks of bodily harm to the operator, are due to the inherent faults of the methods and means employed for accomplishing the above purposes with respect to belting already in use in shops upon machinery.

As my device is to be used more particularly in the repairing of belts in daily use, and which may stand in need of such repairs from likely and frequent accident, I propose that it shall be portable and readily applicable in all cases and under all conditions.

My invention consists of a cutter or punch and a corresponding die, arranged to operate conjointly between rigid jaws by means of a hand-screw, the jaws having a handle, whereby the device may be conveniently presented and held to its work by the hand of the operator.

Referring to the accompanying drawings, Figure 1 represents the device in perspective. Fig. 2 is a partial longitudinal section of the same.

The foundation of the belt-punch is a pair of rigid jaws, A, provided with a handle, *a*, by which the operator may conveniently hold it. To the interior of one of these jaws is secured a cylindrical die, B; and fitted to move against the die, and in the other jaw, is a screw, C, provided with an operating-handle, *c*, at its outer end, and armed at its inner end with an annular punch, D. Furthermore, the screw is provided with a central duct, *d*, leading from the annular punch, whereby the waste material may be delivered from the punch. This duct *d* is made somewhat larger in diameter than the punch, so that the clearance of the waste

may be more amply and efficiently provided for.

The punch D acts, when impelled by the screw *c* against die B, to perforate any intervening substance, and, from the fact that the screw causes the rotation, as well as the advancement, of the punch, the power and efficiency of the device are enhanced, although the screw is in itself the means of enabling the operator to bring to bear easily a power sufficient for all kinds of belt-punching. It is therefore evident that the equivalent of the merits of the device may be had by locating the punch D and duct *d* rigidly in one of the jaws, and forming the die B upon a solid screw, C.

By means of my belt-punch, as an entirety, I am enabled to dispense with the old style of punch-block and hammer, which required a rigid support for the block when in use, and hence, in a great many cases, necessitated the entire removal of the belt from the machine, and which was frequently the cause of mutilated fingers to the operator; and, instead, I am enabled to handily present the punch to the belt in any position without its removal, and to easily, effectually, and with entire safety to the operator, form the necessary lacing-holes.

The device has proved itself worthy in the extreme; and

I claim—

1. In a belt-punch, the combination, with supporting-jaws, of the die B and the hollow punch D, adapted to be operated against the die by means of a screw, C, operating from one of said jaws, substantially as and for the purposes specified.

2. In a belt-punch, the combination, with supporting-jaws, of the die B and the screw-threaded hollow punch D, adapted to work in one of the jaws, all arranged substantially as shown and described.

GEORGE R. EVERSON.

Attest:

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