(No Model.)

J. Z. COBLENS.

PICK.

No. 524,820. Patented Aug. 21, 1894.

Fig. 1.

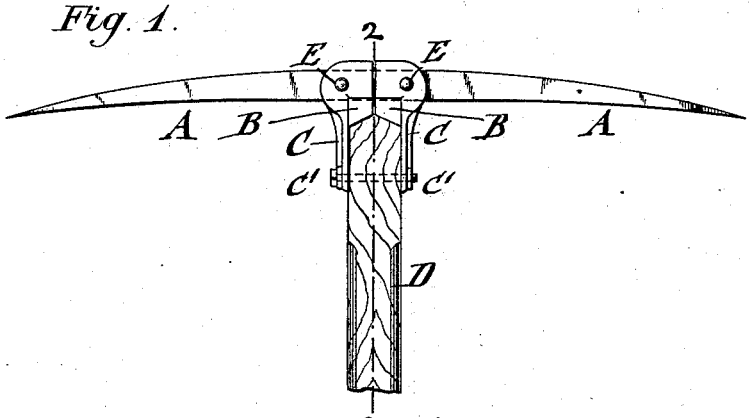


Fig. 2.

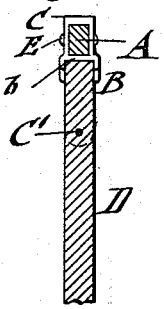


Fig. 3.

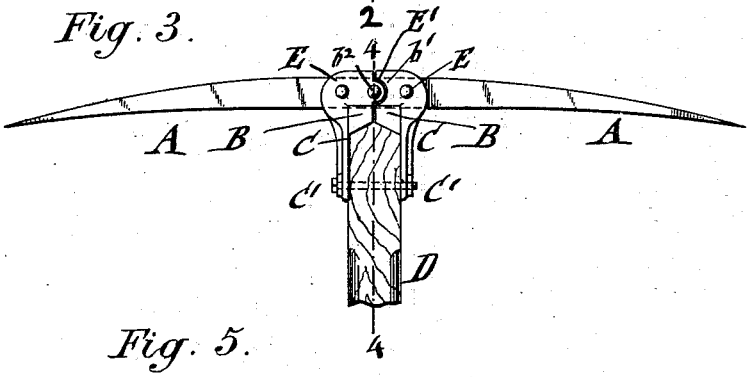


Fig. 4.

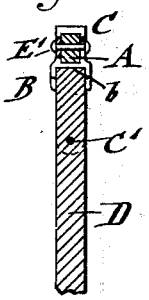
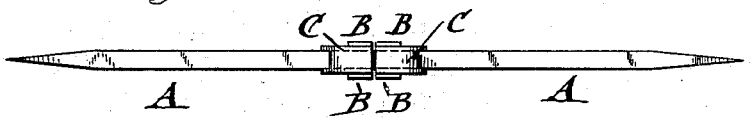


Fig. 5.



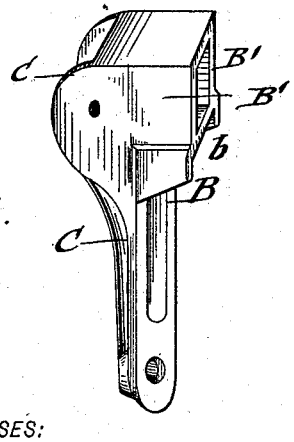


Fig. 6.

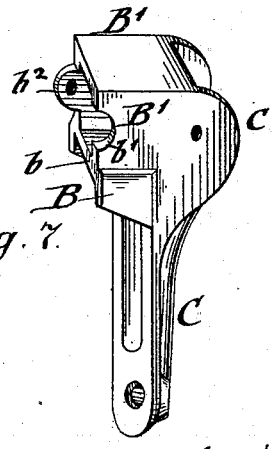


Fig. 7.

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PICK.

SPECIFICATION forming part of Letters Patent No. 524,820, dated August 21, 1894.

Application filed June 23, 1894. Serial No. 515,454. (No model.)

To all whom it may concern:

Be it known that I, JOHN Z. COBLENS, a citizen of the United States, and a resident of the city, county, and State of New York, have invented certain new and useful Improvements in Picks, of which the following is a specification.

This invention relates to an improved pick of that class which is known as eyeless picks, and more especially to picks in which the connection of the pick-bar with the handle-socket is made in a strong and reliable manner, whereby the construction of the pick is simplified and a stronger and more reliable tool obtained; and the invention consists of a pick-bar, the handle-socket of which is formed of two edge-pieces having openings for the middle portion of the pick-bar, said edge-pieces provided with abutments that extend at right angles from the inner faces of the edge-pieces, said abutments being connected by a transverse web, that forms the lower part of the box-shaped inner portion of each edge-piece. The edge-pieces of the handle-socket are connected with the pick-bar by means of transverse rivets which pass through registering holes in the upper parts of the edge-pieces and pick-bar, while a screw-bolt connects the lower ends of the edge-pieces with the handle, as will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a side-elevation of my improved pick. Fig. 2 is a vertical transverse section of the same on line 2, 2, Fig. 1. Fig. 3 is also a side-elevation showing a modified construction of my pick. Fig. 4 is a vertical transverse section on line 4, 4, Fig. 3. Fig. 5 is a top-view of the pick, and Figs. 6 and 7 are respectively perspective views of the piece used in Figs. 1 and 3, said figures being drawn on a larger scale.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a pick-bar, or other tool, which is made of the ordinary size and shape but without the usual eye in its middle portion.

The handle D is connected with the middle portion of the pick-bar A by means of two edge-pieces C C, which are provided at their upper ends with openings that correspond in size with the middle portion of the pick-bar, said openings fitting snugly on the pick-bar and being provided at their upper and lower interior faces with a slight inclination or bevel, so that a biting action is exerted by the diagonally-opposite edges of the faces on the middle portion of the pick-bar. The lower ends or shanks of the edge-pieces C C are provided with strengthening-ribs, and are attached to the handle D that is inserted between the same by a fastening screw-bolt C′ that is passed through registering holes in the lower ends of the edge-pieces C C, and in the handle, one end of the screw-bolt being provided with a head while the other end is provided with a screw-thread, so as to engage the interiorly-threaded hole in the opposite edge-piece C and dispense thereby with a separate screw-nut for this purpose. Each edge-piece C is provided with a laterally-projecting bracket-shaped abutment B, which abutment extends at right angles to the inner edge of the edge-piece alongside of the handle, until they abut against each other at their inner ends. A transverse web b connects the abutments B of each end-piece, said web forming a stop or rest against which the end of the handle D abuts. Above the web b, each edge-piece C is provided with a box-shaped extension B′, which, like the abutments and their transverse web, is made in one integral casting with the edge-piece C, so as to embrace thereby the middle portion of the pick-bar on all sides and form thereby a strong connection with the same. Each edge-piece is connected with the pick-bar A by a transverse rivet E which passes through registering holes in the edge-piece and pick-bar, said rivets retaining the pick-bar rigidly in connection with the edge-pieces C, and the boxes B′ formed above the abutments B.

In some cases it is necessary to use an additional rivet E′ for connecting the handle-socket formed by the edge-pieces with the middle portion of the pick-bar. For this purpose, each edge-piece is provided at one side of its box B′ with a recess b', and at the opsite side with a forward-extending lug b^2, as shown in Figs. 3 and 7, so that the lug b^2 of one edge-piece fits into the corresponding re-

cess b^3 of the adjacent edge-piece at each side of the pick-bar. The lugs b^2 are provided with holes which register with a transverse hole in the pick, so that a third rivet B′ can be used for connecting the handle-socket and the pick-bar.

The improved construction described forms a very strong and reliable handle-socket for picks of all kinds, by which the wabbling of the pick-bar in the handle-socket, or the playing loose of any of the parts is entirely obviated, while the handle-socket is composed of only five parts, namely, two edge-pieces, two rivets and one fastening-bolt. The inwardly-projecting abutments and the boxes above the same inclose entirely the middle portion of the pick-bar, so that the entry of sand or dust is prevented, while the clamping surface on the pick-bar is enlarged so that a strong and firmly-clamped connection between the pick-bar and handle is obtained.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of a pick-bar, edge-pieces having openings for the middle portion of the pick-bar and bracket-shaped abutments projecting toward each other, a transverse web connecting the abutments of each edge-piece, a box-shaped extension above the web, rivets passing through holes of the edge-pieces and pick-bar, a handle, and a screw-bolt for connecting the lower ends of the edge-pieces and handle, substantially as set forth.

2. The combination of a pick-bar, edge-pieces having openings at their upper ends for being applied to the middle portion of the pick-bar, each edge-piece being provided with bracket-shaped abutments extending at right angles from the inner edges of the edge-pieces, a transverse web connecting the abutments of each edge-piece, a box-shaped extension above each web, provided with a recess at one side and a lug at the other side registering with the corresponding lug and recess of the adjacent box-extension, rivets passing through holes of the edge-pieces, lugs and pick-bar, a handle abutting against the transverse webs of the edge-pieces, and a screw-bolt connecting the lower ends of the edge-pieces with the handle, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

JOHN Z. COBLENS.

Witnesses:
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K. R. BRENNAN.