

J. C. SNYDER.

PICK.

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1,060,141.

Patented Apr. 29, 1913.

Fig. 2.

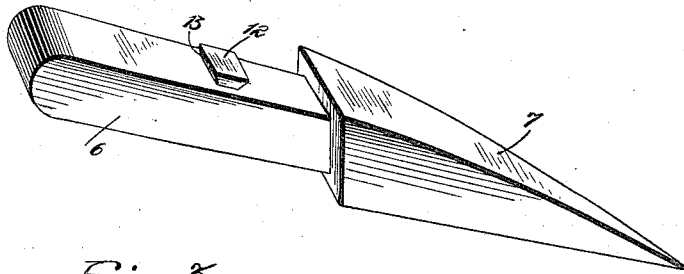


Fig. 3.

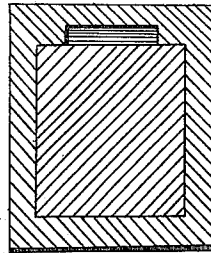
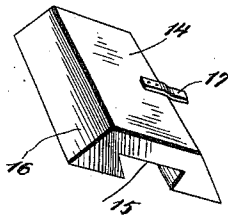


Fig. 1.

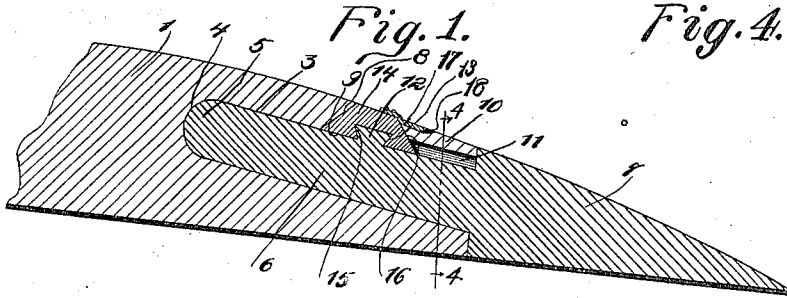


Fig. 4.

Witnesses

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PICK.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JACOB C. SNYDER, a citizen of the United States, residing at Listonburg, in the county of Somerset, State of Pennsylvania, have invented certain new and useful Improvements in Picks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in picks used by miners and has for its object to so construct a device of this character with changeable points, thus reducing the number of tools and lessening the trouble of carrying them to the place of work.

A further object of the invention is to so construct the pick that one set of points thereof may be removed for sharpening and another set substituted therefor.

With these and other objects in view, the invention consists in certain novel features of construction, combination and arrangement of parts as will be hereinafter fully described and claimed.

In the drawings: Figure 1 is a longitudinal sectional view of a pick end. Fig. 2 is a detail perspective view of one of the points. Fig. 3 is a similar view of one of the locking slides. Fig. 4 is a sectional view on the line 4—4 of Fig. 1.

Referring to the drawings, the numeral 1 designates the pick, the same being secured to the handle 2 in the usual manner. Formed in the opposite ends of the pick 1 are sockets 3, the same being substantially rectangular in cross section and are formed with curved bases 4 to correspond with the curved end 5 of the reduced end 6 of the point 7, said reduced portion being rectangular in cross section so that the same will fit snugly within the socket 3, the inward movement of the same being limited by the curved base 4.

A dove-tailed groove 8 is formed adjacent each end of the pick, the open bottom 9 of said groove opening into the socket 3, the purpose of which will be hereinafter described. By providing the dove-tailed groove 8, a bridge piece 10 is provided at each end of the pick, and has its under surface provided with a longitudinal groove 11, which opens into the opening 9. Formed upon the upper surface of the reduced por-

tion 6 is a head 12, the same being provided with inwardly beveled end edges 13. The reduced portion 6 of the point 7 is inserted in the socket 3, the head 12 freely passing through the longitudinal groove 11 and assumes a position in the opening 9.

A locking slide 14 is provided and has formed upon its under surface a transverse dove-tailed groove 15, the side edges of said slide being beveled, as indicated at 16, said edges being adapted to engage the sides of the dove-tailed groove 8 when the slide is introduced therein, and the dove-tailed groove 15 thereof engages the beveled end edges 13 of the head 12, thus effectually locking a point in the socket 3.

To prevent accidental removal of the locking slide 14 a spring 17 is attached thereto at its inner end, the outer end of said spring being adapted to seat in a recess 18 formed upon the inner edge of the bridge piece 10. The recess 18 is slightly greater in length than the spring 17 so that a tool may be inserted therein to disengage the spring from the recess when it is desired to remove the locking slide 14 to substitute another point.

It is obvious that the point 7 may be formed in various shapes to suit different classes of work.

What is claimed is:

1. A pick having sockets formed in each end, said ends having open bottom transverse grooves formed therein, points having reduced ends adapted to engage in the sockets, heads formed upon the reduced ends, locking slides having beveled side edges for slidably engaging in said grooves and adapted to engage the heads when said heads assume a position in the open bottoms of the grooves, and means carried by the slides to prevent accidental removal of the same.
2. A pick having sockets in its ends, said ends having dovetailed grooves formed therein, the bottoms of said grooves opening into the sockets to provide bridge pieces, said bridge pieces having longitudinal grooves formed in their under surfaces, points having reduced ends, heads formed on the ends, said heads having beveled edges and being adapted to pass through the longitudinal grooves, locking slides having beveled side edges for removably engaging the grooves formed in the pick, said slides having dove-tailed grooves formed in their under surfaces

to slidably engage the beveled edges of the heads, springs having their inner ends attached to the locking slides, recesses formed in the bridge pieces, the free ends of said springs being adapted to seat in said recesses to prevent accidental removal of the slides.

In testimony whereof, I affix my signature, in presence of two witnesses.

JACOB C. SNYDER.

Witnesses:

MINNIE HALPIN,
WILS SNYDER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
