

(No Model.)

E. R. RAY.

PICK.

No. 255,533.

Patented Mar. 28, 1882.

Fig. 1.

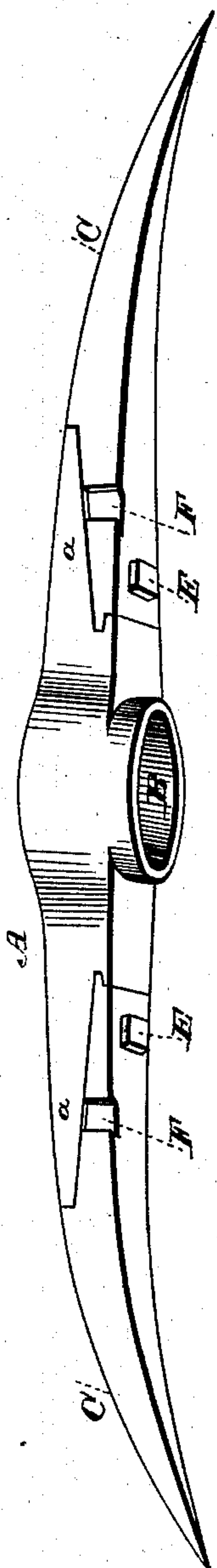
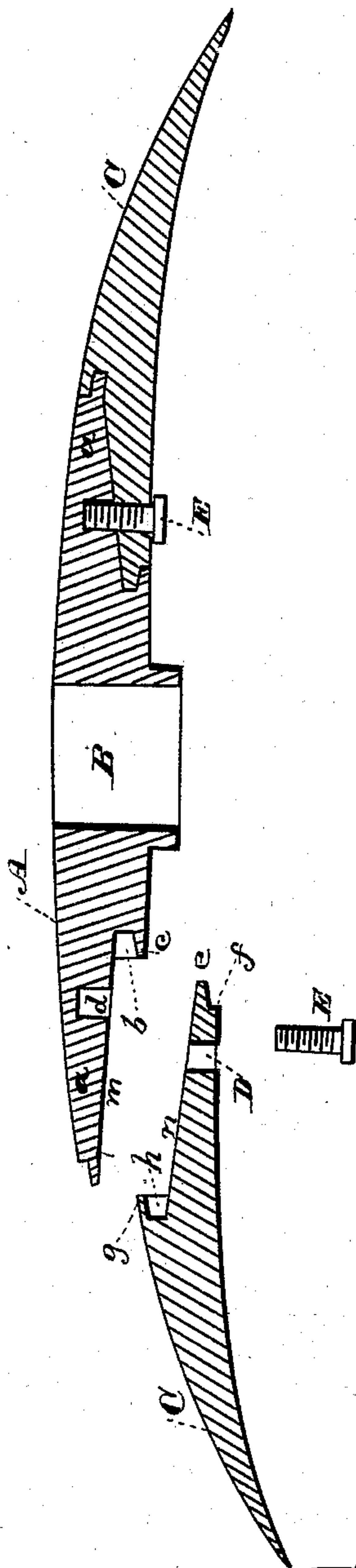


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

EBENEZER R. RAY, OF BODIE, CALIFORNIA.

PICK.

SPECIFICATION forming part of Letters Patent No. 255,533, dated March 28, 1882.

Application filed December 7, 1881. (No model.)

To all whom it may concern:

Be it known that I, EBENEZER R. RAY, of Bodie, county of Mono, State of California, have invented an Improvement in Picks; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of my improved pick. Fig. 2 is a longitudinal sectional view of the same.

My invention relates to the class of picks and to those in which the points are adapted to be easily fitted to and to be removable from the stock.

It consists in the novel construction of the stock and points with corresponding shoulders and sockets, whereby the latter may be readily and securely fitted to the former, all of which will hereinafter more fully appear, reference being made to the accompanying drawings.

The object of my invention is to provide a pick the points of which may be easily removed when dull and others substituted.

In all mines picks become dull very readily, and have to be sent to the shop to be sharpened so frequently that a great deal of time is lost by the miner who is working at considerable depth in securing another. This necessitates having a large supply of picks on hand; but by having the points removable a number of them may be carried by the miner to his work, and when one becomes dull another can be immediately substituted.

Let A represent the stock, having an eye, B, in which the handle is adapted to fit. The outer ends of the stock are provided with or formed into projections or tongues *a a*, and on their under sides, which are inclined, as shown at *m*, have grooves *b b*, with projecting under lips, *c c*.

C C represent the points. Their inner ends are formed into tongues *e e*, and have shoulders *f f*. Their upper sides, *n*, are oppositely inclined to the under sides of the stock, and

terminate in a shoulder, *g*, in which is a socket, *h*. Their outer ends are curved to a point, as shown. Screw-holes D through the points correspond with the holes *d d* in the stock.

In fitting the point to the stock the inclined sides *m* and *n* of the stock and point lie together, the tongue *e* fits into the grooves *b*, and the lip *c* abuts against the shoulder *f*. The tongue *a* upon the end of the stock fits into the socket *h* in the point, and the end of the stock abuts against the shoulder *g*. Screw-bolts E E are put through the holes D *d*, and thus the points are secured firmly and rigidly to the stock.

For the sake of convenience I make a groove, F, in the side of the points. This groove enables me to use the point when removed, or an extra point, as a wrench to remove the screw-bolts and take off the point. The groove F is made of a size to fit the heads of the screw-bolts.

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

1. The pick-stock A, the ends of which have the tongues *a* and the under sides, *m*, inclined, terminating in grooves *b*, with lips *c*, in combination with the points C, having sockets *h* and shoulders *g*, inclined upper sides, *n*, tongue *e*, and shoulders *f*; said stock and points being fitted together and secured by screw-bolts E E, substantially as and for the purpose herein described.

2. In a pick the points of which are independent of the stock and adapted to be secured thereto by screw-bolts E E, as herein described, the groove F, formed in the sides of said points, whereby said points may be used as wrenches to remove said screw-bolts, substantially as and for the purpose herein described.

In witness whereof I hereunto set my hand.

EBENEZER ROSS RAY.

Witnesses:

O. J. GULLIXSON,
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