

S. FIRTH.
Picks for Cutting Coal, &c.

No. 147,925.

Patented Feb. 24, 1874.

Fig 1.

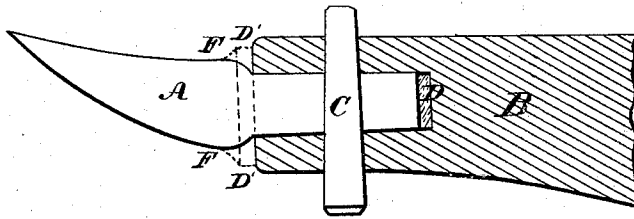


Fig 2.

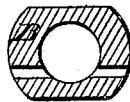
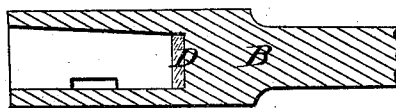


Fig 3.



Witnesses
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UNITED STATES PATENT OFFICE.

SAMUEL FIRTH, OF LEEDS, ENGLAND.

IMPROVEMENT IN PICKS FOR CUTTING COAL, &c.

Specification forming part of Letters Patent No. **147,925**, dated February 24, 1874; application filed June 5, 1872.

To all whom it may concern:

Be it known that I, SAMUEL FIRTH, of Leeds, Yorkshire, England, gentleman, have invented certain Improvements in Picks for Cutting Coal and other Minerals, of which the following is a specification:

This invention consists in the combination of a pick of peculiar construction with a removable point, as will be fully described hereafter.

Figure 1 represents a view, partially in section, of my improved pick, with removable point; Figs. 2 and 3, different views of the pick without the point.

To enable others skilled in the art to make and use my invention, I will now proceed to describe fully its construction and manner of operation.

A is the pick-point, inserted in the hollow or socket made for it in the end of the pick-shaft B. C is the cotter, fitting into a groove or cotter-hole in the socket, and in a corresponding groove in the stem of the pick-point. D is a cushion, of india-rubber or other suitable elastic material, at the bottom of the socket; but, as before stated, instead of the

elastic cushion being placed at the bottom of the socket, it might be placed around the outer edge of the socket, as shown in dotted lines at D'; but when the cushion is so placed, it is necessary to have a projection or shoulder, F, on the pick-point, to rest on the cushion D. Metallic cushions to act as springs may be used instead of cushions of india-rubber.

I prefer that the socket for the pick-point should be a circular taper socket—that is, circular in section, but tapering inward, as shown.

By means of the described construction, when it is necessary to sharpen the point, it may be readily removed from the socket for that purpose.

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

The combination of the socket B, point A, key C, and packing D, as and for the purpose described.

SAMUEL FIRTH.

Witnesses:

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