

I. W. DENNING.
Fire Shovel.

No. 112,789.

Patented Mar. 21, 1871.

Fig. 1.

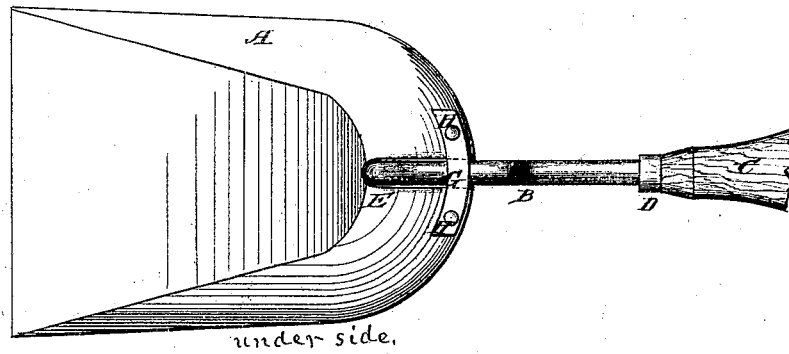
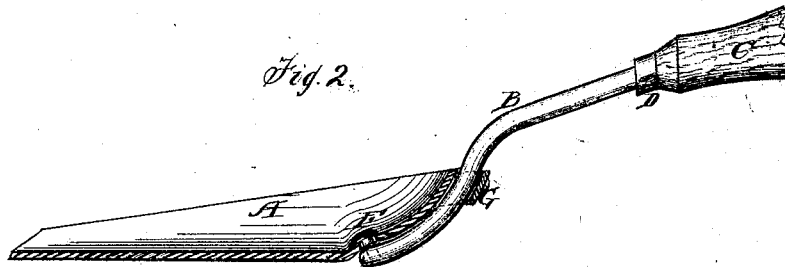


Fig. 2.



Witnesses:

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ISAAC W. DENNING, OF ALLEGHENY CITY, PENNSYLVANIA.

Letters Patent No. 112,789, dated March 21, 1871.

IMPROVEMENT IN FIRE-SHOVELS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ISAAC W. DENNING, of Allegheny City, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Shovels; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to a new and useful improvement in shovels of the kind used for feeding stoves with coal, and for taking up ashes, but applicable to other kinds of shovels, whereby they are made with less expense, and more durable than when made in the ordinary manner; and

It consists in the mode of attaching the shank to the blade, as hereinafter described.

In the accompanying drawing—

Figure 1 is a view of the under side of the shovel.

Figure 2 is a sectional side view.

Similar letters of reference indicate corresponding parts.

A is the blade of the shovel, which is made somewhat in the scoop form.

B is the shank, which is of uniform size from the handle to its end.

C is the handle, which is socketed to the shank in the ordinary manner, with a ferrule, D, around its end.

A groove is formed in the center of the back end of the blade, from its upper edge down to the point E, where there is a hole.

The end of the shank is turned up, forming a short angle so as to pass through the blade, while the lower portion of the shank fits the groove in the blade, as seen in the drawing.

The extreme end of the shank, which passes through the blade, is riveted on the upper side of the blade, as seen at F.

To support the shank in the groove I place on the under side, at or near the upper edge of the blade A, the strap G over the shank, and rivet it to the blade on each side, as seen at H H. This makes a durable fastening, and the entire strength of the shank is secured.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

Fastening the shank to the blade of a shovel in the manner shown and described, that is to say, by riveting the shank through the blade and grooving the blade, and applying the strap G, substantially as set forth.

ISAAC W. DENNING.

Witnesses:

HENDERSON E. DAVIS,
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