

E. A. BARNES.

SCOOP.

No. 186,521.

Patented Jan. 23, 1877.

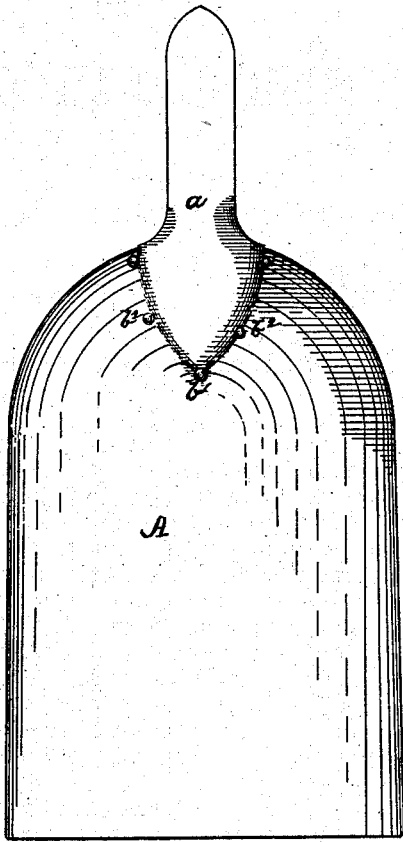


Fig. 1.

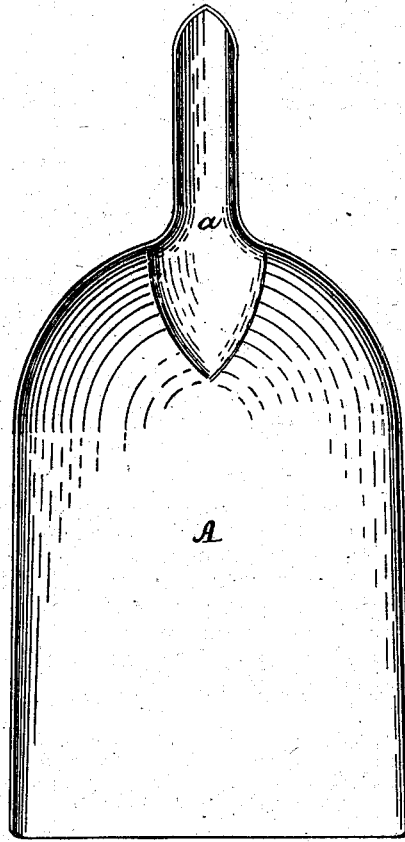


Fig. 2.

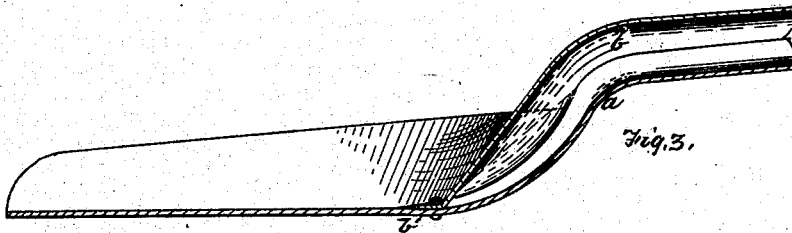


Fig. 3.

WITNESSES.

James L. Gray
R. W. W. W. W.

INVENTOR.

Elmore A. Barnes.
By Bakewell & Kerr
Attys.

UNITED STATES PATENT OFFICE.

ELMORE A. BARNES, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN SCOOPS.

Specification forming part of Letters Patent No. 186,521, dated January 23, 1877; application filed May 1, 1876.

To all whom it may concern:

Be it known that I, ELMORE A. BARNES, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Scoops; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, forming part of this specification, in which—

Figure 1 is a view of a scoop embodying my improvements, showing the back-strap continuous with the shovel. Fig. 2 is a front view, the front strap being removed, and Fig. 3 is a sectional view of the same.

Like letters refer to like parts wherever they occur.

My invention relates to the manufacture of scoops.

In scoops as usually manufactured the sheet is first cut to the required size, and a V-shaped piece is then cut from the blank at a point corresponding to the attachment of the straps, so that when the blank is submitted to the dies it may readily assume the desired shape. Finally, the straps are riveted to the scoop, the point of the back strap being forward of the curve, and the rivet which secures the points of the straps as well as the point of the back strap itself being in the line of wear it frequently happens that the rivet gives way and the point of the back strap turns up or breaks off, weakening the scoop and rendering it liable to break across at the next rivets. For these reasons many scoops become destroyed before they are near worn out.

The object of the present invention is to obviate these objections.

I will now proceed to describe my invention, so that others skilled in the art to which it appertains may apply the same.

In the drawing, A indicates the scoop provided with the straps *a b*, one of which, preferable the back strap *a*, is continuous with the

scoop, and the other is secured by riveting in the usual manner. In forming such a scoop the blank is cut with a projecting portion or tongue corresponding in location to one of the straps, and the bowl is then struck up by pressure or subjection in suitable dies, which give the metal the proper form. As before stated, the tongue is preferably swaged into the position of the back strap, as shown at *a*, and the front strap is then riveted to the scoop, for by so doing, in addition to the increased strength, the rivets which secure the front strap may be put well down on the point of the strap, and though the rivet-head *b*¹ projects in the line of wear and may be worn off, it can readily be replaced, and the point of the riveted strap, being on the front of the scoop, will be protected, and will not curl up or be broken off. In case the projecting tongue is swaged by the dies into the position of the front strap, which can be readily done, if desired, the advantage of strength and non-liability of the shovel to crack at the second rivets *b*², when the point-rivet *b*¹ gives way, will result the same as before specified; but the riveted strap will not be protected, and the point will be liable to curl up or be broken off, so as to require a new back strap.

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

A scoop having a deep bowl struck up, and straps forming a socket for the handle, one strap being continuous with the bowl and the other riveted thereto, substantially as and for the purpose specified.

In testimony whereof I, the said ELMORE A. BARNES, have hereunto set my hand.

ELMORE A. BARNES.

Witnesses:

C. C. HUSSEY,
JAMES L. KAY.