

E. A. BARNES.

SCOOP.

No. 186,520.

Patented Jan. 23, 1877.

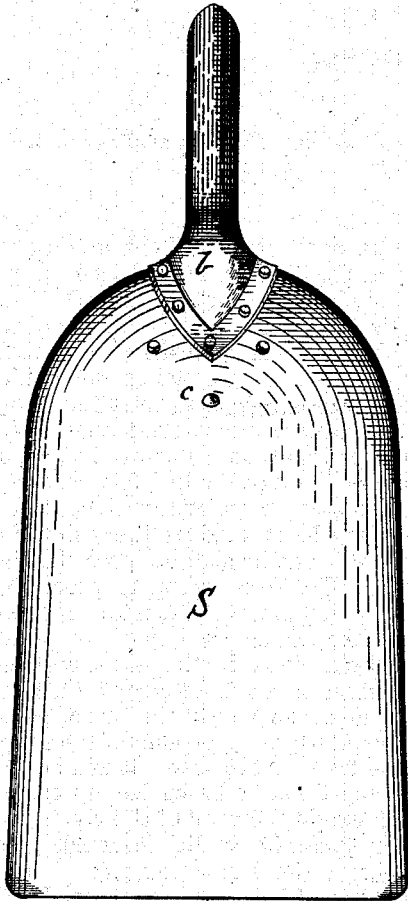


Fig. 1.

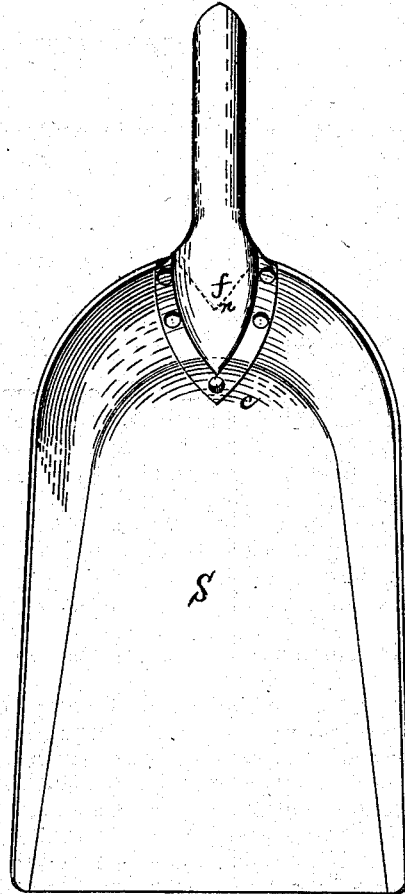


Fig. 2.

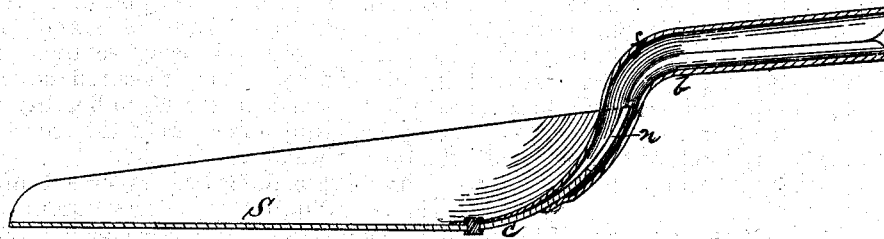


Fig. 3.

Witnesses.

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ELMORE A. BARNES, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN SCOOPS.

Specification forming part of Letters Patent No. **186,520**, 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, and showing the manner of riveting the back strap. Fig. 2 is a view of the scoop showing the front strap, and Fig. 3 is a sectional view of the strap.

Like letters refer to like parts wherever they occur.

My invention relates to the manufacture of scoops.

Heretofore, in the manufacture of scoops, the sheet was first trimmed to the required size and form; a V-shaped piece was then cut out at a point corresponding to the attachment of the straps, and the blank then pressed or swaged into form, after which the straps were secured by rivets along the line of the V-shaped section. In order to properly brace the blade the points of the straps were extended below the curve, and were consequently in the line of wear, so that when the rivet which secured the points of the straps wore out or gave way, the point of the back strap was liable to curl up or break off, and the second set of rivets, being close to the edge of the V-shaped slot, were liable to tear out, and thus often rendering the scoop useless before it was but half worn out.

The object of the present invention is to so modify the manner of attaching the straps as to obviate the objectionable specific.

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, *S* indicates a scoop, having the straps *b* and *f* riveted thereto. In forming this scoop I first trim or cut the sheet to the required size. I next notch it slightly, as shown in dotted line at *n*, and then submit the blank to the press or dies, and set it into shape, taking care that the curve *c* is well in advance of the notch *n*, and the surplus metal

is toward the back strap. The notch *n* need not be cut in the blank unless desired; but if it is not, then the die should be raised at that point to swage the metal out of the line of the socket. When the blank, either with or without notch *n*, has been pressed or swaged up by the dies, I next proceed to rivet the straps thereto, first securing the back strap *b* (which should be short) so that its point shall be on the curve fully back of the line of wear. After the back strap is partially riveted, the front strap may be riveted at the point, and the upper rivets may be made to pass through both straps. The front strap is preferably long enough to extend well down on the scoop to complete the socket, and may be secured at its point by a rivet, in the usual manner. Should the rivet of the front strap be located forward of the curve, and in the line of wear, it will be immaterial, as the point of the strap, being on the front of the scoop, it will be protected, and not liable to be curled up or broken off, and should the head of the rivet wear off, a new rivet can be readily inserted, to secure the point of the front strap.

It will be seen that the advantages of this mode of securing the straps are, that the attachment of the back strap is made out of the line of wear, and therefore cannot become loose, and the metal being retained on the line of the second, and, if desired, on the line of all the rivets, there is no liability of the scoop breaking across from the loosening of the front strap.

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

A scoop, having front and back straps forming a socket for the handle, the back strap of a separate piece from the body or bowl of the scoop, said back strap being riveted on the curve of the bowl, and back of the line of wear, 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. HUSSY,
JAMES I. KAY.**