

(No Model.)

W. P. T. JOPE.

SCOOP.

No. 261,614.

Patented July 25, 1882.

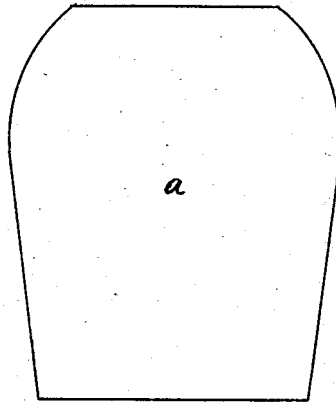


Fig. 1.

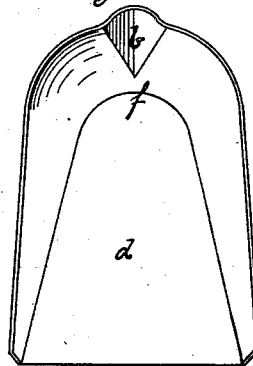


Fig. 2.



Fig. 3.

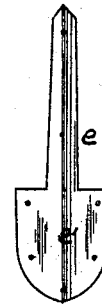


Fig. 4.

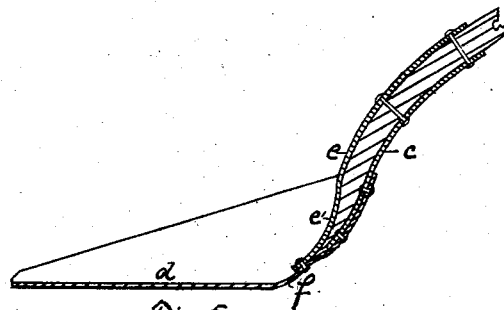


Fig. 5.

Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM P. T. JOPE, OF PITTSBURG, PENNSYLVANIA.

SCOOP.

SPECIFICATION forming part of Letters Patent No. 261,614, dated July 25, 1882.

Application filed June 23, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM P. T. JOPE, 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.

The great objection to the grain-scoop commonly in use is that the lower end of the under strap extends down below the shoulder onto the horizontal part of the blade, and is there riveted, so that when the scoop is used the end of the strap and the rivet-head strike and catch upon the floor, and are liable to be worn off or torn apart, thus either causing the scoop to wear out rapidly or to be broken. Another objection is that the blade is weakened by the practice of cutting out a triangular section from the rear end for the reception of the handle, the cut extending down through the shoulder of the blade. My invention is designed to obviate these difficulties and to produce a stronger and better scoop.

To enable others skilled in the art to make and use my invention, I will now describe it by reference to the accompanying drawings, in which—

Figure 1 is a plan view of the blank. Fig. 2 is a view of the blank after being set up. Figs. 3 and 4 are views of the straps. Fig. 5 is a longitudinal section of a scoop, showing the application of the handle to the same.

Like letters of reference indicate like parts in each.

I take a blank of metal, *a*, of the usual form, and instead of cutting out a recess for the reception of the end of the handle I form a corrugation or groove, *b*, therein, either before or during the operation of setting up the blade. This groove or corrugation *b* is of sufficient depth to permit the riveting in the bottom thereof of the back strap, (which consists of a straight piece of metal, *c*, as shown in Fig. 3,) and yet to accommodate therein one-half of the lower end of the handle. The lower end of the strap *c* does not extend down to the shoulder of the blade, but is riveted above the shoulder, so that the rivet shall not extend down into the horizontal part *d* of the blade. The upper strap, *e*, which is provided with a rounded enlargement, *e'*, is bent to proper shape, and is then riveted upon the face of the blade above the shoulder *f*, and covers the

entire surface of the groove *b*. The socket is then formed and the handle inserted and riveted in the usual way.

The advantage of my improved construction is that the strength of the blade is unimpaired by cutting, and that in the use of the shovel the leverage at the back end of the blade comes directly against the handle, instead of, as heretofore, against a strap riveted thereto. As the strain is greater at this point than in any other part of the shovel when in use in raising its load, the advantage of having the groove *b* on the upper side of the blade instead of on the under is apparent.

As before described, the rivets are placed in the back of the blade above the shoulder, and cannot come in contact with the floor when the scoop is in use, and thus I secure a smooth-backed scoop. I also save stock in the formation of the under strap, and save the loss of stock by not cutting the blade. The corrugating of the blade by the formation of the groove *b* serves to strengthen the blade at that point.

If desired, the blade may be slit with a narrow angular cut at the part in which the groove *b* is formed, to relieve the metal from strain in being set up and grooved; but such cut must not be great enough to prevent the blade from having a direct purchase against the handle when used.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A scoop having a groove or corrugation formed in the upper face of the blade for the reception of the handle, substantially as and for the purposes described.

2. A scoop having a groove formed in the upper surface of the blade for the reception of the handle, and a bar or strap riveted to the bottom of the groove to form the under strap of the scoop, substantially as and for the purposes described.

3. A scoop consisting of the blade *a*, lower strap, *c*, and upper strap, *e*, provided with a rounded enlargement, *e'*, substantially as and for the purposes described.

In testimony whereof I have hereunto set my hand this 21st day of June, A. D. 1882.

WILLIAM P. T. JOPE.

Witnesses:

T. B. KERR,
JAMES H. PORTE.