(No Model.)

W. D. ROWLAND.

WIRE SCOOP.

No. 420,608. Patented Feb. 4, 1890.

FIG. 2.

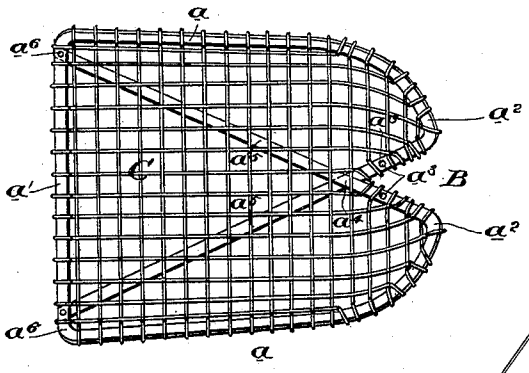
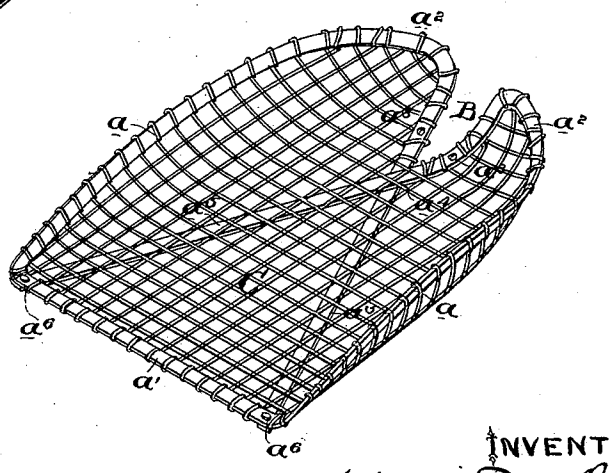


FIG. 1.

FIG. 3.



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UNITED STATES PATENT OFFICE.

WILLIAM DAY ROWLAND, OF PHILADELPHIA, PENNSYLVANIA.

WIRE SCOOP.

SPECIFICATION forming part of Letters Patent No. 420,608, dated February 4, 1890.

Application filed December 21, 1889. Serial No. 334,541. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM DAY ROWLAND, of the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Wire Scoop, of which the following is a true and exact description, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to the construction of wire scoops such as are used for handling potatoes and for like purposes; and my object is to provide a scoop which can be easily and cheaply made, and which will be sufficiently strong and rigid to stand the strains to which it is exposed in use.

The construction of my improved scoop will be best described in connection with the drawings, in which it is illustrated, and its novel features are hereinafter pointed out in the claims.

In the drawings, Figure 1 is a perspective view of my improved scoop in the form in which I prefer to construct it and provided with straps and a handle. Fig. 2 is a plan view showing the way in which I construct the rim and body of the scoop preparatory to pressing it to the desired scoop shape; and Fig. 3 is a perspective view showing the scoop-blade pressed to shape, but without straps or a handle.

a a', &c., is a strip of metal, preferably flat, which is bent to the general outline of the scoop-blade, as shown in Fig. 2, *a'* being the front edge of the scoop, *a a* the sides thereof, a^2 a^2 the back edge, and a^3 a^3 inwardly-bent portions of the strip, forming in the center of the back of the scoop the angular recess B.

a^5 a^5 are metal strips, preferably formed integral with the strip making up the edges of the scoop-blade, and extending across the bottom of the said scoop-blade and riveted to the strip at a^6 a^6, the strips crossing at the point marked a^4, which is also the point of the recess B.

C is the body of the scoop, which is formed of woven wire secured to the strip forming the edge of the scoop by being bent around it, as shown. The scoop-blank for the scoop-blade, being formed as shown in Fig. 2, is then subjected to the action of the properly-formed dies, which press it into the desired scoop form, as shown in Fig. 3, and I then galvanize the scoop-blade for the purpose of not only protecting it from rust, but also of more securely attaching the wires of the body C to the strip forming the rim of the blade, the zinc acting as a solder to secure the wires and strip together and prevent individual wires from slipping out of place. The scoop-blade can then be handled by attaching straps of the ordinary character—such as are indicated at D—to the blade and inserting a handle E in the straps. I prefer in all cases that the bracing-strips a^5 a^5 should pass beneath the wire, as shown in the drawings, as by this plan they serve not only to stiffen and brace the scoop as a whole, but also as shoes to protect the wires forming the body of the scoop from abrasion.

The bracing or bracing and protective strips a^5 constitute the novel feature of my present invention.

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

1. A scoop-blade having a rim formed of metal bent to the general outline of the scoop and with an inward angular recess B at the top, re-enforcing strips a^5, extending across the bottom of the blade to stiffen and strengthen it, and a body C, of woven wire, secured to the rim, and the whole pressed to the desired scoop form.

2. A scoop-blade having a rim formed of metal bent to the general outline of the scoop and with an inward angular recess B at the top, re-enforcing strips a^5, extending across and beneath the bottom of the blade to stiffen and strengthen it, and a body C, of woven wire, secured to the rim, and the whole pressed to the desired scoop form.

3. A scoop-blade having a rim formed of a flat strip of metal bent to the general outline of the scoop, with an inward angular recess B at the top, and extensions a^5 a^5, extending across the bottom and riveted to the front edge of the scoop-rim, and a body C, of woven wire, secured to the rim, and the whole pressed to the desired scoop form.

4. A scoop-blade having a rim formed of a

flat strip of metal bent to the general outline of the scoop, with an inward angular recess B at the top, and extensions a^5 a^5, extending across the bottom and riveted to the front edge of the scoop-rim, and a body C, of woven wire, secured to the rim, and the whole pressed to the desired scoop form and galvanized to secure the wire body firmly to the rim and together.

WM. DAY ROWLAND.

Witnesses:
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