

(No Model.)

D. A. DALY.
SCOOP SHOVEL.

No. 554,989.

Patented Feb. 18, 1896.

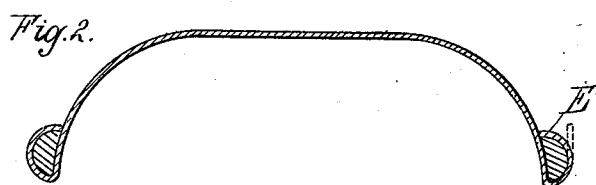
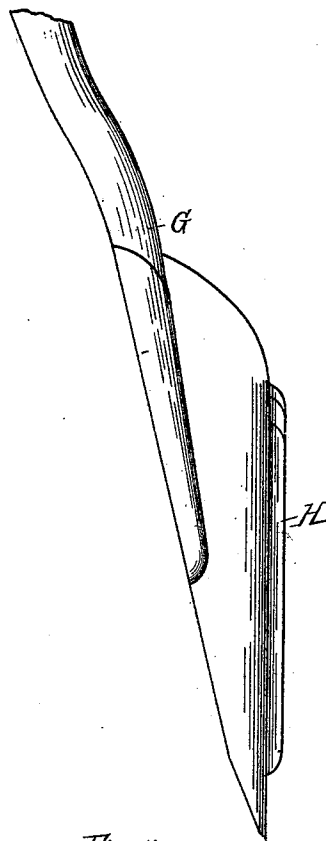
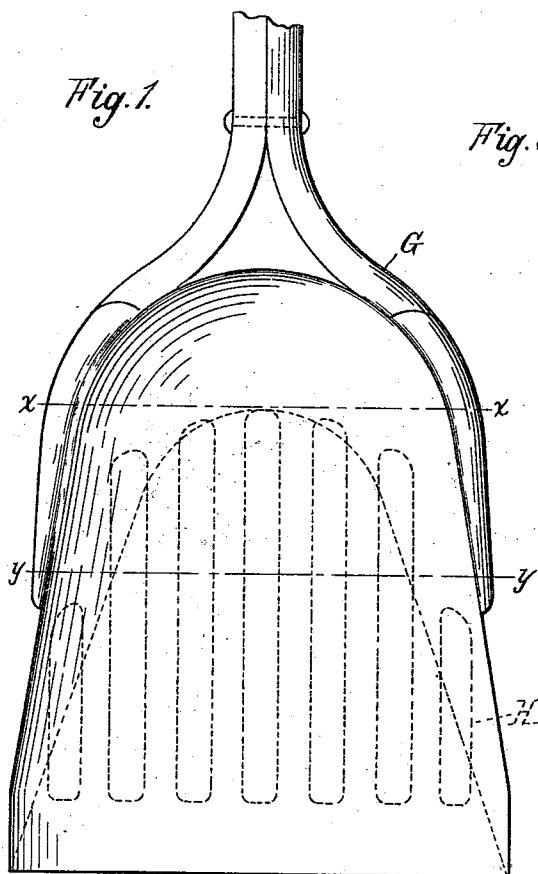
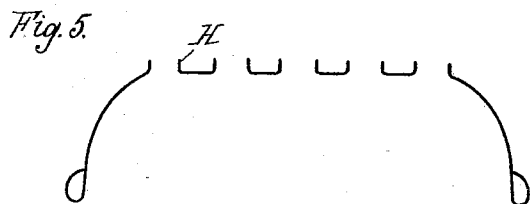
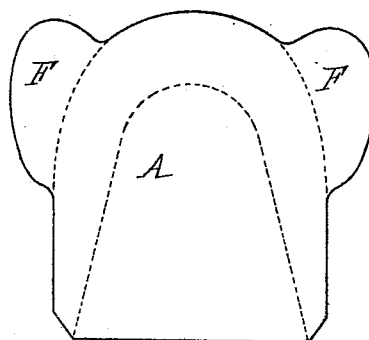


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

DANIEL A. DALY, OF DETROIT, MICHIGAN.

SCOOP-SHOVEL.

SPECIFICATION forming part of Letters Patent No. 554,989, dated February 18, 1896.

Application filed June 27, 1895. Serial No. 554,197. (No model.)

To all whom it may concern:

Be it known that I, DANIEL A. DALY, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Scoop-Shovels, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention consists in the construction of a shovel having the general character of what is known as a "scoop-shovel" and adapted for various purposes, as for handling farm products of all kinds.

The invention particularly consists in the construction of a shovel-blade formed from sheet metal with upturned side and rear walls and a bifurcated handle secured in sockets formed by rolling the edge of the blade; and the invention further consists in the construction, arrangement and combination of the various parts, all as are more fully hereinafter described.

In the drawings, Figure 1 is a top plan view of a scoop-shovel embodying my invention. Fig. 2 is a cross-section thereof on line *x x*. Fig. 3 is a side elevation. Fig. 4 is a plan of the blank from which the blade may be struck. Fig. 5 is a cross-section on line *y y*, Fig. 1.

The blade is struck up of sheet metal in any of the usual forms given to scoop-shovels, preferably with the upturned sides converging more or less toward the rear and rounded at the back, with the upper edge of the sides substantially in the plane of the handle. In addition to the parts forming the blade the blank A from which it is made is integrally cut out from a sheet of metal, with the wings F substantially as shown in Fig. 4. These wings when the blade is shaped are rolled over, as shown in dotted lines in Fig. 2, to partially form the sockets E for the reception of the bifurcated ends G of the handles, which are then inserted and secured to the blade by the operator completing the sockets by hand or by use of suitable dies which form

these wings to tightly enwrap the ends of the bifurcations G and thus secure the blade to the handle.

It will be seen that the wings E extend partly on the back of the blade and the sockets formed therefrom curve inwardly and the bifurcated ends of the handle are bent to conform thereto. By this means the blade and handle are firmly united without depending upon the use of other fastening devices, such as screws or rivets.

When the shovel is to be used as a vegetable-shovel, I preferably cut longitudinal slots in the bottom of the blade in such a manner that downwardly-projecting flanges H are formed, as shown in Fig. 5 and in dotted lines in Fig. 1. These strengthen the blade and the slots permit the escape of dirt. My construction of shovel I deem especially advantageous not only because it is cheap to manufacture, but also because of its lightness and strength.

What I claim as my invention is—

1. A scoop, or shovel of like character having a blade formed in one piece from a sheet-metal blank provided with wings and a handle having bifurcated ends shaped to conform to the sides of the blade and united thereto by means of the wings being rolled over the bifurcated ends to form inclosing sockets, substantially as described.

2. As a new article of manufacture a scoop-shovel having a blade formed with converging sides and rounded back and formed in one piece from a blank provided with wings, and a handle having bifurcated ends shaped to conform to the sides and back of the blade and united thereto by the wings being wrapped around them; substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

DANIEL A. DALY.

Witnesses:

M. B. O'DOHERTY,
O. F. BARTHEL.