G. McINTYRE.

COMBINED SCOOP AND SACK FILLER.

APPLICATION FILED MAY 9, 1916.

1,234,057.

Patented July 17, 1917.

Fig. 1.

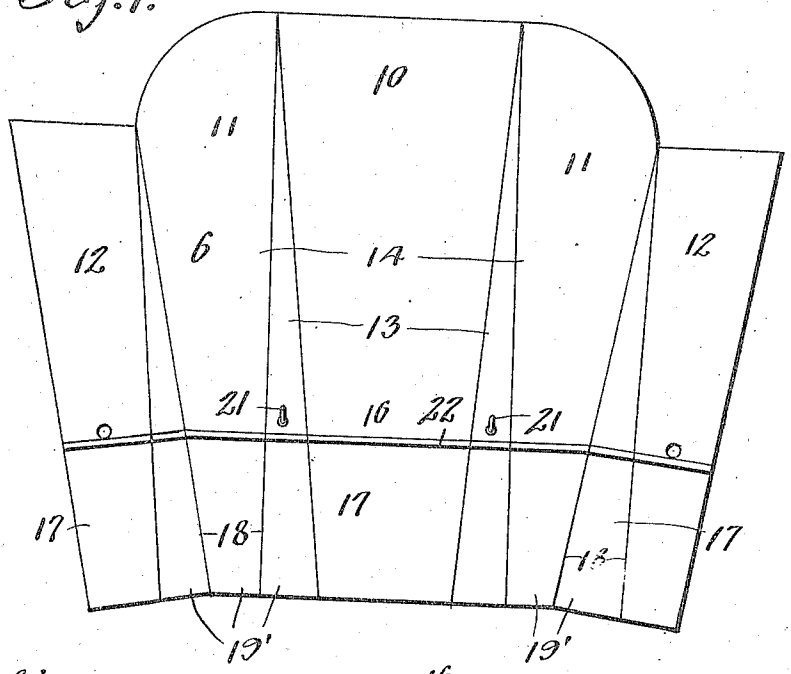


Fig. 2.

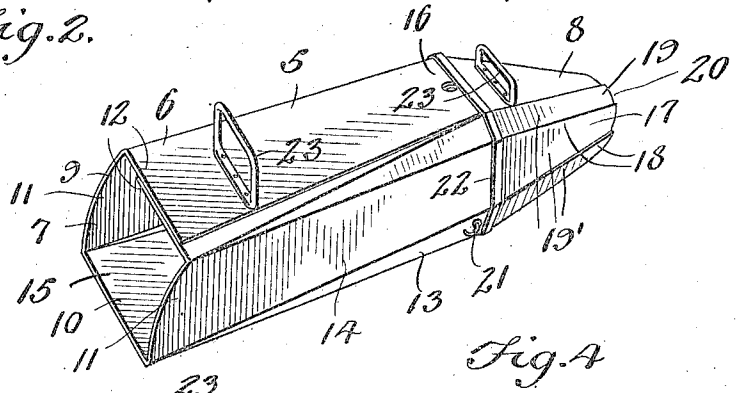


Fig. 3.

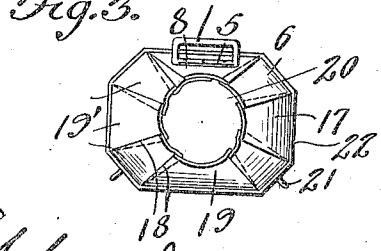
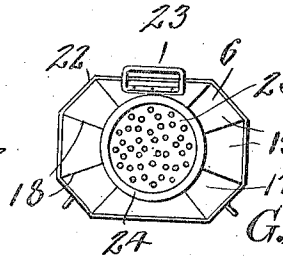


Fig. 4



Witnesses

J. Edwin Sterling

Inventor

G. McIntyre,

By Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

GILBERT McINTYRE, OF DENHOLM, SASKATCHEWAN, CANADA.

COMBINED SCOOP AND SACK-FILLER.

1,234,057. Specification of Letters Patent. Patented July 17, 1917.

Application filed May 9, 1916. Serial No. 96,455.

To all whom it may concern:

Be it known that I, GILBERT McINTYRE, a subject of the King of Great Britain, residing at Denholm, in the Province of Saskatchewan and Dominion of Canada, have invented new and useful Improvements in Combined Scoop and Sack-Fillers, of which the following is a specification.

This invention relates to a combined scoop and sack filling device, so designed to hold the sack to be filled around the discharge spout of the scoop.

Another object of the invention is the provision of a device of the above stated character provided with a discharge spout formed from a series of resilient overlapping sections and permitting of expansion or contraction thereof, thus permitting the spout being readily inserted in bags of different sizes.

A still further object of the invention is the provision of a perforated closure for the outlet end of the discharging spout, thus enabling the device to be further utilized in treating grain for smut prior to emptying the grain into wagon-boxes or sacks.

With the above and other objects in view, the invention consists in the novel features, details of construction and combination of parts which will hereinafter be more fully set forth, illustrated in the accompanying drawing and pointed out in the appended claims.

Figure 1 is a plan view of the blank from which my device is constructed;

Fig. 2 is a perspective view of the device in folded position;

Fig. 3 is a transverse sectional view taken through the discharge spout; and

Fig. 4 is a detail view showing the cap applied to the discharge spout.

Referring more particularly to the accompanying drawing, in which like characters of reference refer to corresponding parts in the several views, my improved combined scoop and sack filler is designated generally by the reference character 5, and is constructed from a single blank of metal 6 so bent to provide a scoop 7 and a sack filler 8.

The scoop 7 embodies a hollow body portion 9 comprising a bottom wall 10, oppositely disposed side walls 11 and overlapping top walls 12. The portion of the blank 6 forming the side walls of the scoop is so bent to provide each of the side walls with a lower section 13 and a top section 14, the lower section gradually increasing in transverse dimension in a direction toward the inner end of the scoop, while the uppermost section 14 gradually increases in transverse dimension toward the open end of the scoop, thus, when the blank is in scoop assembled form, will present the latter with a broad mouth portion 15 and a contracted inner portion 16. Each of the walls forming the scoop is formed with an extension 17, and the portion of the blank provided with the extension is slitted longitudinally as at 18 for the full longitudinal extent of the extension to provide on the inner contracted end 16 of the scoop, a frusto-conical discharge spout 19. This discharge spout 19 embodies a series of resilient sections 19′, the meeting edge of one section overlapping the adjacent edge of the other section, and presenting a discharge spout capable of expansion or contraction, thereby allowing of the outlet end 20 of the discharge spout being easily and readily inserted in sacks of different sizes. In order to permit of the fastening of the sack over the outlet end 20 of the discharge spout, I provide a pair of oppositely disposed hooks 21, fastened to the exterior surface of the contracted inner end 16 of the scoop and projecting laterally therefrom. A reinforcing strip 22 is permanently secured transversely of the blank at the point of the juncture of the extension 17 with the body portion 9 of the scoop, preventing any accidental breakage or displacement of the discharge spout from said scoop. Suitable handles 23 are connected with the respective scoop and discharge spout, and adapted to be grasped by the user of the scoop during the operation of shoveling the grain and filling of the sacks, as will be readily understood.

It is a further object of the invention to provide a perforated cap 24 adapted to fit over the outlet end 20 of the discharge spout when it is desirous of treating the grain for smut, previous to the dumping of the grain in wagon boxes or sacks, that is to say, by positioning this cap on the outlet end of the spout, after the grain has been shoveled within the scoop, the latter may be raised to assume a substantially vertical upright

position, the closed end of the spout being thence dipped into the usual solution used for such purposes. In order to allow the solution to drain free of the grain, I provide the cap with a series of apertures 25.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of construction and the method of operation will be readily apparent to those skilled in the art to which the invention relates, and while I have described the principles of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the appended claims.

What is claimed as new, is:—

1. A device of the class described including a scoop formed from a single piece of material and bent to provide a hollow body portion including bottom, side and top walls, each of said walls being provided with an extension, said extension being slitted for its length, providing the scoop with a discharge spout capable of expansion or contraction substantially as and for the purpose specified.

2. A scoop of the character set forth constructed from a single blank of material and bent to provide a body portion including side walls and an overlapped top wall, the side walls gradually increasing in transverse dimension toward one end of the scoop to provide the same with a broad mouth portion and a contracted lower portion, and a discharge spout formed on the contracted end of the scoop and capable of expansion or contraction, substantially as and for the purpose specified.

3. A device of the class described, comprising a series of resilient overlapping sections, an expansible discharge spout formed on one end thereof, said discharge spout being slitted to provide a series of overlapping sections, and a series of hooks disposed at a point adjacent the point of formation of the discharge spout with the series of resilient overlapping sections.

In testimony whereof I affix my signature.

GILBERT McINTYRE.

Witnesses:

RUDOLPH LUND,

RALPH H. McINTYRE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."