

J. A. MILLER & H. BINGAMAN.

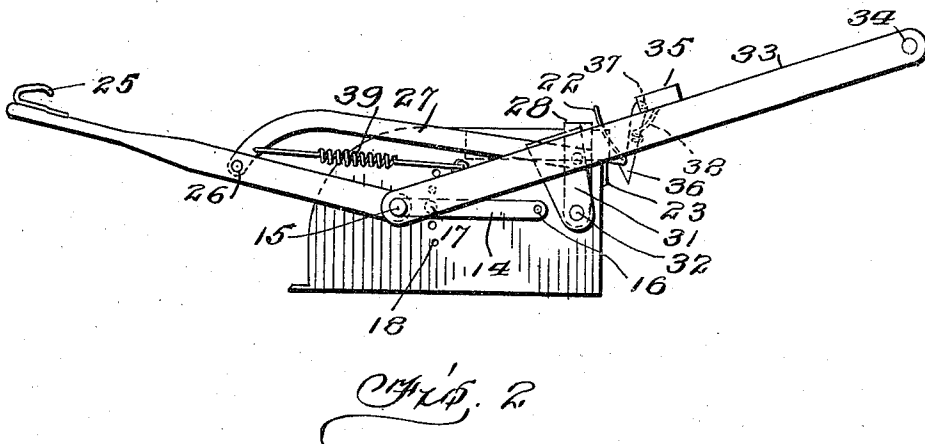
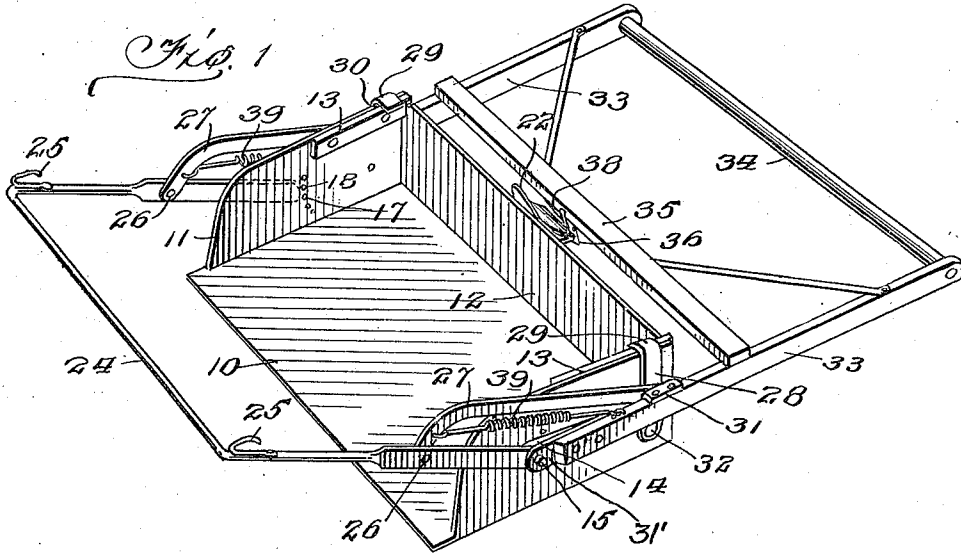
SCOOP.

APPLICATION FILED NOV. 21, 1910.

984,774.

Patented Feb. 21, 1911

2 SHEETS—SHEET 1.



Witnesses

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2 SHEETS-SHEET 2.

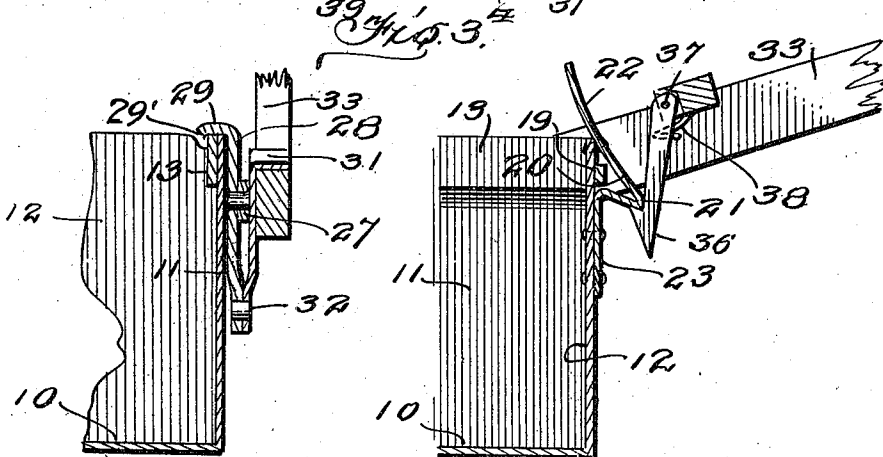
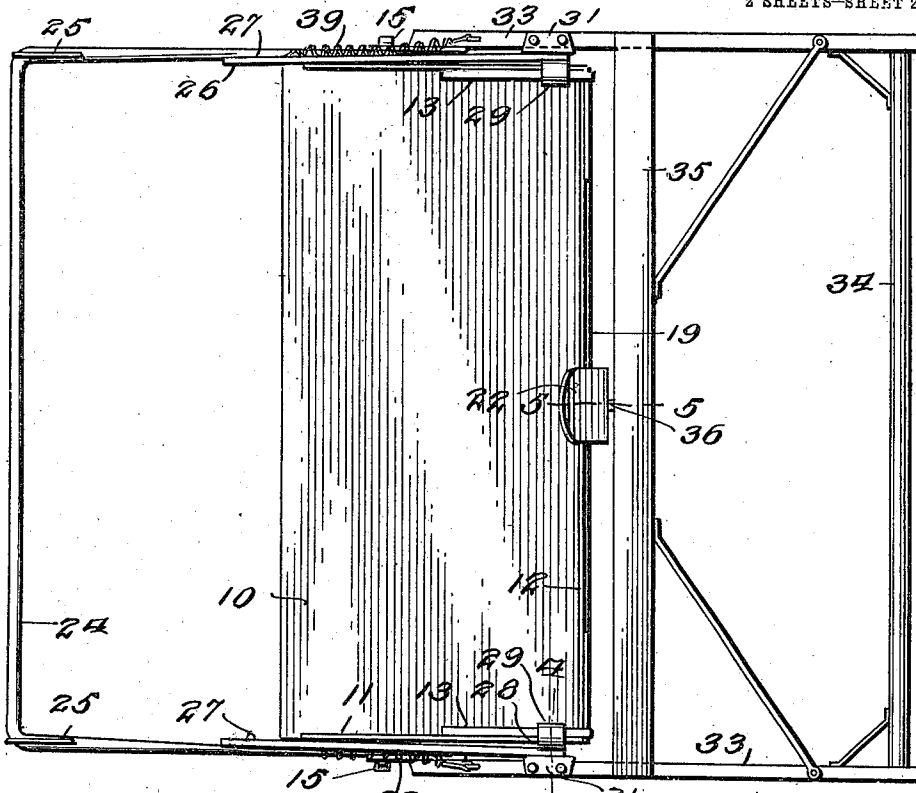


Fig. 4

Fig. 5

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UNITED STATES PATENT OFFICE.

JOHN A. MILLER AND HARVEY BINGAMAN, OF HARDING, SOUTH DAKOTA.

SCOOP.

984,774.

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Patented Feb. 21, 1911.

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To all whom it may concern:

Be it known that we, JOHN A. MILLER and HARVEY BINGAMAN, citizens of the United States, residing at Harding, in the county of Harding and State of South Dakota, have invented certain new and useful Improvements in Scoops; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in scoops of the type designed to tilt in the discharge of its contents and make a complete revolution and return to its normal position.

The invention comprises various details of construction and combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claims.

We illustrate our invention in the accompanying drawings, in which:—

Figure 1 is a perspective view of a scoop. Fig. 2 is an end elevation. Fig. 3 is a top plan view of the apparatus. Fig. 4 is a sectional view through the scoop on line 4—4 of Fig. 3, and Fig. 5 is a detail sectional view on line 5—5 of Fig. 3.

Reference now being had to the details of the drawings by numeral, the scoop is designated by numeral 10 and is provided with ends 11 and a rear wall 12 to the outer face of the latter of which is fastened a catch 22. Fastened to the inner surface of each end adjacent to its upper edge is a bar 13. Pivotally mounted upon a bolt 16, one at each end of the scoop, is an adjustable bar 14 having a pivot 17 thereon adapted to engage one or another of the apertures 18 formed in a curved row, as shown clearly in Figs. 1 and 2 of the drawings, thus affording means whereby the bar 14 may be held in different adjusted positions. The forward end of each bar 14 is bent at right angles and formed into a trunnion 15 to which the ends of the bail-shaped draw bar 24 are pivotally connected.

The handle, designated by numeral 34, is connected to bars 33, each of which is pivotally mounted upon the trunnion 15. Hangers 31 are fastened one to each of said bars

33 and their lower ends are pivotally connected to bars 28, the upper ends of which are bent to form hooks 29 and which engage over the upper edges of the ends of the scoop and also the upper edges of the bars 13 and have a play thereon. Upon reference to Fig. 4 of the drawings, it will be noted that the upper edge of the rear wall of the scoop is cut away as at 29' to allow the hooked end 29 of the bar 28 to pass freely by the rear wall of the dumping of the scoop. A curved bar 27 is pivotally connected at its forward end 26 to the bail-shaped draw bar 24 and its rear end pivotally connected to a hanger 31.

Connected at its ends to the bars 33 is a cross-piece 35 having a dog 36 pivoted at 37 to said cross-piece 35 and a spring 38 fastened to the latter engages the dog 36 and serves to normally hold the same at its farthest forward throw and in which position it will normally engage the catch in the manner shown clearly in Fig. 5 of the drawings.

Hooks 25 are fastened to the bail-shaped draw bar 24 at the angled portions thereof and afford means whereby the tug ends of a harness may be attached thereto.

In operation, when it is desired to dump the scoop, the handle 34 is raised so that the forward sharp edge of the scoop will bite into the ground and prevent any further sliding of the scoop which, upon further pulling upon the bail-shaped draw bar, will cause the rear end of the scoop to tip up and in which movement the curved bars 27 will push the hooked bars 28 rearward and the hooks 29 will slide back over the upper edges of the ends of the scoop and the bars 13, thus allowing the scoop to turn forward and make a complete revolution and, upon its return movement, the catch 22 coming in contact with the spring-pressed dog will cause the latter to yield and, when it returns to its normal position, engage the catch in the manner shown clearly in Figs. 1 and 5 of the drawings.

What we claim to be new is:—

1. A scoop having a draw bar pivotally connected thereto, a handle having side bars pivoted to the scoop, hangers upon said side bars, inverted hooks pivotally connected one to each hanger and engaging the upper edges of the ends of the scoop, rods pivotally connecting said inverted hooks and the draw bar, a dog upon the handle, and a catch upon

the rear wall of the scoop engaged by the dog.

2. A scoop having end walls which are apertured, bars pivoted one to each end wall, a pintle projecting from each bar adapted to engage one or another of the series of perforations in the end of the scoop, a pintle projecting from each pivotal bar, a bail-shaped draw bar pivotally connected to said pintles, a handle having side bars pivotally connected to said pintle, bars hooked to each hanger and having inverted hook-shaped ends engaging over the upper edges of the end walls of the scoop, pivotal rod connections between the bail-shaped draw bar and side bars of the handle, a spring-pressed dog upon the handle, and a catch upon the rear wall of the scoop adapted to engage said dog.

3. A scoop having end walls which are apertured, bars pivoted one to each end wall, a pintle projecting from each bar adapted to engage one or another of the series of per-

forations in the end of the scoop, a pintle projecting from each pivotal bar, a bail-shaped draw bar pivotally connected to said pintles, guide bars fastened to the ends of the socket and having their upper edges flush with the upper edges of said ends, the rear wall of the socket being recessed adjacent to each end wall, hangers one fastened to each side bar of the handle, a rod pivoted at its lower end to each hanger and having its upper end hook-shaped and adapted to engage over the adjacent edges of said bars and end walls, a spring-pressed dog upon the hanger, and a catch upon the rear scoop engaged by the dog.

In testimony whereof we hereunto affix our signatures in the presence of two witnesses.

JOHN A. MILLER.

HARVEY BINGAMAN.

Witnesses:

H. G. McCoid,

JOHN E. GARDNER.