A. H. GALE.
SULKY-PLOWS.

No. 193,941. Patented Aug. 7, 1877.

Fig. 1.

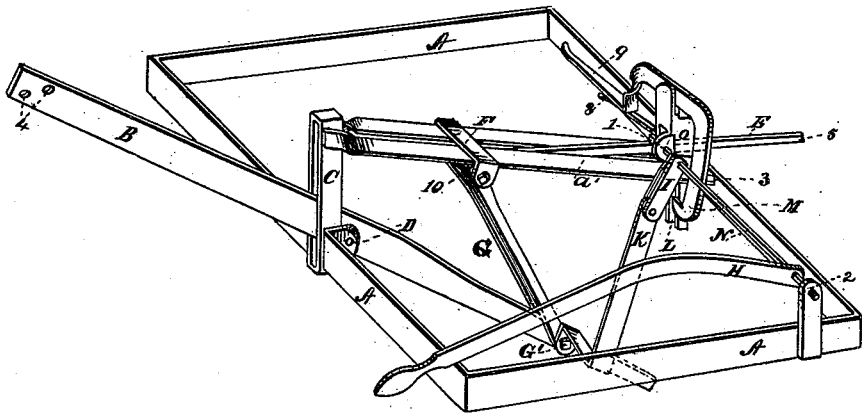
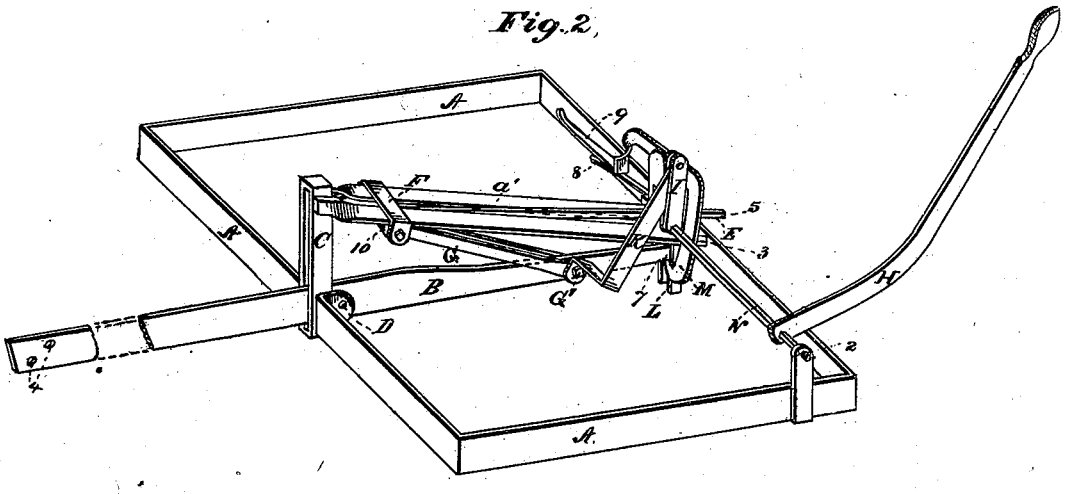


Fig. 2.



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IMPROVEMENT IN SULKY-PLOWS.

Specification forming part of Letters Patent No. **193,941**, dated August 7, 1877; application filed June 20, 1877.

To all whom it may concern:

Be it known that I, ANSEL HAYES GALE, of the city of Freeport, in the county of Stephenson and State of Illinois, have invented certain new and useful Improvements in Sulky-Plows; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon.

The drawings are perspective views of a sulky-plow without the wheels and plow-bottom attached, these it being deemed unnecessary to show.

Figure 1 represents the plow when unlatched or unlocked. Fig. 2 represents the plow when latched or locked.

A A A A represent an iron frame, to the sides of which cast axles may be attached. B represents beam of plow, to which the plow-bottom may be attached at 4. C represents an arch attached to the back part of the frame through which the beam passes. D represents a bolt or pivot, upon which the beam turns. E represents the draw-rod, to which power may be attached at the end marked 5. F represents a sliding clasp encompassing the two inclined bars attached to arch C, and to the front end of frame at 3; said clasp also, by a bolt, supports two friction-rollers, 10, underneath said inclined bars. There is also attached to the bolt in said clasp, and between said friction-rollers, the draw-rod E, and also the two bars G, connected with the beam by a bolt at G′, thus forming a half toggle-joint, whereby the front end of said beam is pressed or borne down by pulling upon the draw-rod E at the end 5, thereby raising the hind end of said beam, and lifting the plow-bottom out of the ground whenever desired. N represents a shaft, with hand-lever H and fork I attached. Said shaft is made to turn upon its bearings at 1 and 2 by moving said lever H backward and forward. K represents a bar attached to the fork I and to the beam at G′, by which the plow-bottom may be raised or lowered by operating said hand-lever H, and thus enabling the operator to force the beam to a lock or latch. L represents a guide directing the beam to its proper position when passing up and down, and also supporting it when locked as against any side pressure. M represents a latch fastened or attached to the top of guide L, and passing to the right over and down under the inclined bars and draw-rod E, so as to clasp the beam at the point marked 7 by the use of a spring, 8, causing said latch to hold the beam in a horizontal and rigid position, being locked or latched. The same may be unlocked or unlatched by the operator placing his foot upon the latch at 9 and pressing down, when the plow-bottom may be raised either by the hand-lever H or by power attached to the draw-rod E at 5.

By the combination above described the action of the shaft N forces the plow-beam to a lock, and by this device the plow-bottom is forced into the ground.

Having thus described my invention, the following is what I claim as new and desire to secure by Letters Patent:

1. The combination of the plow-beam B, pivoted bars G, sliding draft-bar E, and frame-bars A, substantially as described and shown.

2. The combination of plow-beam B, bars G, guide L, latch M, spring 8, and draft-bar E, substantially as shown and described.

3. The sliding clamp F, carrying the draft-bar E, pivoted connecting-bars G, rock-shaft N, with arm I, lever H, and bar K, in combination with plow-beam B and frame-bars A, substantially as shown and described.

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