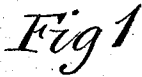


SEED-PLANTER.

Patented Feb. 15, 1876.



WITNESSES
Emory H. Bates
Walter C. Masi

INVENTOR
J. H. Albertson,
Chipman & Smith Co.,
ATTORNEYS

UNITED STATES PATENT OFFICE.

ICHABOD H. ALBERTSON, OF BEDIAS, TEXAS.

IMPROVEMENT IN SEED-PLANTERS.

Specification forming part of Letters Patent No. **173,570**, dated February 15, 1876; application filed December 18, 1875.

To all whom it may concern:

Be it known that I, ICHABOD H. ALBERTSON, of Bedias, in the county of Grimes and State of Texas, have invented a new and valuable Improvement in Seed-Planters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal section of my planter, and Fig. 2 is a plan view of the same.

This invention has relation to improvements in planters.

The object of the invention and improvement is to allow the dropping mechanism to rise and fall in passing over a clod of earth or other obstacle without interference with the shovel opening the seed-furrow, which will by this means be continuous and of sufficient depth to receive the seed.

To this end the nature of the invention consists in the combination, with the beam of a shovel-plow for opening the furrow, of the vertically-vibrating frame of the seed-dropper mechanism, and a roller or drum for smoothing and pressing the seed into the ground, as will be hereinafter more fully explained.

In the annexed drawings, the letter A designates the beam of an ordinary bull-tongue or shovel plow. B is the shovel-plow standard, C the dropper-spout, and D the plow-handles; secured to the beam A in the usual manner, and connected with its rear end by means of rigid rods E. F represents the frame of a seed-dropper mechanism, the side rails *a* of which are pivoted to the beam A by means of a suitable bolt, *i*, passing through registering perforations in the side rails, and in the said beam slightly in rear of the clevis. Rails *a* gradually diverge, and at their rear ends are provided with hangers B', which afford bearings for a leveling-roller, G, which may be of wood, iron, or stone. The journals of this roller are provided with pulleys *c*, which communicate motion through the medium of

an endless belt, H, to a seed-dropping roller, I, having its bearings in a hopper, I', arranged on frame F, and communicating, by means of a suitable chute or conduit, with dropper-spout C. The frame of the dropper mechanism being pivoted to the plow-beam, and having at its end the leveling-roller G, the said frame will be allowed to rise and fall in passing over a clod or other obstacle independently of the furrow-shovel beam. By this means the raising of the shovel out of the ground when the roller passes such obstacle is effectually prevented, thus securing a continuous and uninterrupted furrow for the reception of the grain. Side rails *a* of the frame F are provided, at a point slightly in rear of drill-shovel, with covering-shovels J, which throw the earth over into the drill, covering the grain, the earth thus turned up being pressed into the drill. These shovels are secured to prismatic metallic standards *d*, which pass up through corresponding perforations in side rails *a*, and are secured therein against endwise displacement by means of suitable wedges *e*, which are driven into the said perforations alongside the said shanks.

By removing the said wedges the standards may be adjusted to increase or diminish the penetration of the covering-shovels, as the necessities of each case may require.

Standards *d* are endowed with suitable rigidity to resist strain by means of angular metallic braces L, which are secured to rails *a* just in rear of the said standards, as shown in Fig. 1.

What I claim as new, and desire to secure by Letters Patent, is—

In combination with the standard *d* of the covering-shovel J, the angular braces L, attached to the frame of the covering and dropping mechanism, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ICHABOD H. ALBERTSON.

Witnesses:

J. S. MOONNY,
W. F. HOLMAN.