

(No Model.)

T. PATES.
PLANTING PLOW.

No. 251,132.

Patented Dec. 20, 1881.

Fig. 1.

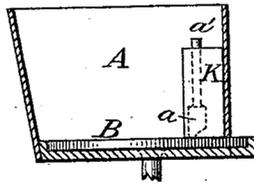


Fig. 2.

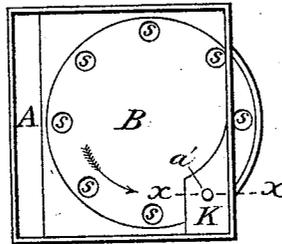


Fig. 3.

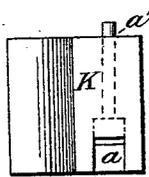


Fig. 4.

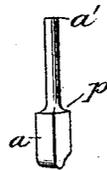


Fig. 5.

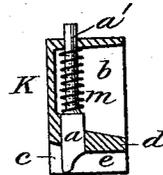
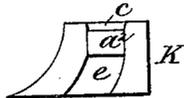


Fig. 6.



Witnesses:

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UNITED STATES PATENT OFFICE.

THOMAS PATES, OF ALTON, ILLINOIS, ASSIGNOR TO HAPGOOD PLOW COMPANY, OF SAME PLACE.

PLANTING-PLOW.

SPECIFICATION forming part of Letters Patent No. 251,132, dated December 20, 1881.

Application filed July 13, 1881. (No model.)

To all whom it may concern:

Be it known that I, THOMAS PATES, in the city of Alton, in the county of Madison and State of Illinois, have invented a new and useful Improvement in Planting-Plows, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to improvements in planting-plows in which the dropping device is a revolving disk receiving the seed in perforations, which are carried under a brush to the outside of the box.

My invention consists in a brush of the construction herein shown actuated by a spring and supported by a keeper of the construction herein shown, occupying a position in one corner of the seed-box and over the seed-carrying disk.

In the drawings my invention is shown in connection with a seed-dropping box such as is used in planting-plows.

Like letters refer to like parts.

Figure 1 is a vertical section of a seed-dropping box, A, having a perforated disk, B, revolving in the direction of the arrow, with which my improvements are connected. Fig. 2 is a top view of same as in Fig. 1. Fig. 3 is a front view, enlarged, of the keeper K, with the brush *a* and extension *a'*. Fig. 4 is a view in perspective, enlarged, of the brush *a*, with the extension *a'*, showing how they are made, and showing a shoulder, *p*, where the extension *a'* is joined to the brush *a*, also showing how the bottom end of the brush is preferably rounded. Fig. 5 is a side view, enlarged, of the keeper K, divided on the dotted lines *x x* in Fig. 2, showing the brush *a*, the extension *a'*, and the spring *m*, the support *d*, the mouth *c*, and the channel *e*. Fig. 6 is a view of the bottom end of the keeper K inverted, enlarged, showing how the mouth *c* and the channel *e* are formed, and showing the seat *a²*, in which the brush *a* is seated when in position.

a is the brush, made of iron, with flat sides, and having a rounded part extension, *a'*, as shown in Fig. 4.

m is a spiral spring around the extension *a'*,

having one end seated on the shoulder *p* and the other end seated on the under side of the top shell-wall of the keeper K, as shown in Fig. 5.

K is the keeper, made of cast-iron, having a mouth, *c*, by which the corn-seed enters, and channel *e*, by which the seed passes, the support *d* supporting the rear side of the brush *a* and the support *d* forming a cover over the channel *e*, and a cavity or recess, *b*, formed by the upper part of the keeper, being shell-walls above the support *d*, as shown in Fig. 5.

In operation the brush *a* is placed in position as shown in Fig. 5, and the keeper K placed in position as shown in Figs. 1 and 2, and the disk B revolving, the perforations *s* will be filled with corn seed, and carried in the direction of the arrow under the brush *a*, through the channel *e*, to the outside of the box A. As the disk B revolves the brush *a* will be kept down on the face of the disk by the spring *m*, and as the corn-seed in the perforations *s* pass under the brush *a* the brush will slide and sweep away all seed not held in the perforations *s*; and as the disk B is preferably some thinner than the seed, the brush *a* will be lifted up by the seed in the perforations passing, and the spring *m* will bring the brush down again after the passing of each perforation.

By my invention I make all the parts of metal, simple and inexpensive in construction, effective, and of lasting durability.

Having thus set forth and described my invention, what I desire to secure by Letters Patent is—

The brush *a*, having the rounded extension *a'*, the spring *m* around the extension *a'*, the keeper K, having the channel *e*, the support *d*, and the mouth *c*, in combination with the box A, and with the disk B, all arranged and operating substantially as and for the purpose set forth.

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Witnesses:

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