J. H. ADAIR.

SEED-PLANTERS.

No. 192,211. Patented June 19, 1877.

Fig. 1.

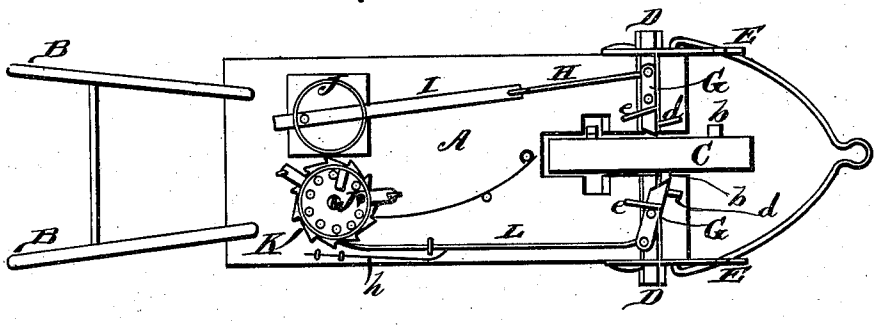
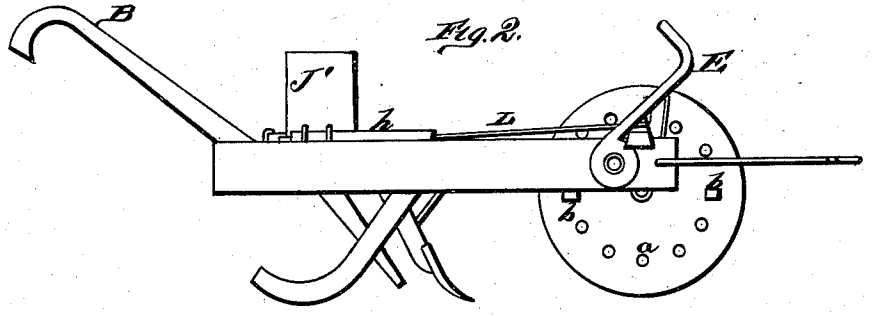


Fig. 2.



WITNESSES

Robert Everett

George E. Upham

INVENTOR.

James H. Adair.

Gilmore, Smith & Co.

ATTORNEYS.

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JAMES H. ADAIR, OF LYNNVILLE, KENTUCKY.

IMPROVEMENT IN SEED-PLANTERS.

Specification forming part of Letters Patent No. **192,211**, dated June 19, 1877; application filed May 5, 1877.

To all whom it may concern:

Be it known that I, JAMES H. ADAIR, of Lynnville, in the county of Graves and State of Kentucky, 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 plan view of my seed-planter, and Fig. 2 is a side view of the same.

The nature of my invention consists in the construction and arrangement of a seed-planter, as will be hereinafter more fully set forth.

A represents the frame or platform of my seed-planter, at the rear end of which are attached the handles B B.

At the front end, in the center of the platform or frame A, is mounted a wheel, C, which is provided with a series of twelve holes, *a*, through it, which holes are arranged at equal distances apart on a circle concentric with the wheel. These holes are for the insertion of beveled pins *b b*, which operate the dropping mechanism, and which, by means of the various holes, may be arranged to drop corn and pease or beans at the same time or at different times, and as many times of each as desired for every revolution of the wheel.

At the front and top of the platform A, in transverse grooves made therein, are placed two slides, D D, one on each side of the wheel. These slides are operated separately and independent of each other by means of cam-levers E E pivoted to the sides of the platform, and working in grooves on the under sides at the outer ends of the slides.

On top of each slide D is pivoted an arm, G, the inner end of which is beveled, as shown, and said arm is held, by means of a spring, *d*, against a stop, *e*. The slides D are dovetailed in the grooves in the platform A, and can, therefore, not come out of the same upward.

One of the pivoted arms G is, by a rod, H, connected with a slide, I, in the hopper J, for containing the pease or beans, while the other pivoted arm has a dog, L, attached to it, which dog is, by a spring, *h*, held against a perforated ratchet dropping-disk, K, in the corn-hopper J′. Of course, the slide I and disk K are to be constructed with suitable devices for regulating the size of the dropping-openings in them, the same as is generally done in all seed-planters.

By means of the cam-levers E E the slides D D are moved outward from or inward to the wheel C, as required, and either one of them, or both, may be thrown inward, so as to gear with the said wheel. As the machine now moves forward the beveled pins or cams *b* in the wheel C strike the pivoted arms G on the slides D, turning said arms on their pivots and operating the dropping slides or disks. As soon as the pins or cams pass the ends of the arms G the springs *d* return the parts to their original positions.

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

1. In a seed-planter, the combination of a central operating-wheel, provided on both sides with removable pins or cams, and two independently and separately moving slides carrying the operating mechanisms, substantially as set forth.

2. The combination of the wheel C with pins or cams B, the slides D, cam-levers E, and arms G, having springs *d*, and connected with the dropping apparatus in the hoppers, substantially as and for the purpose described.

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

JAMES HENRY ADAIR.

Witnesses:

WM. H. MILLER,

C. C. COULTER.