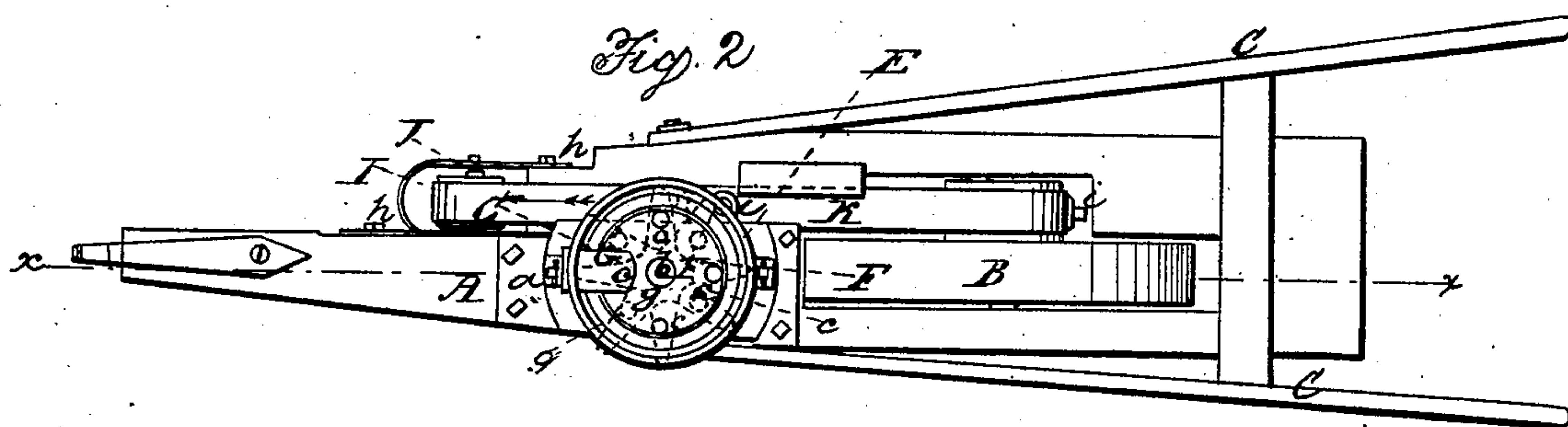
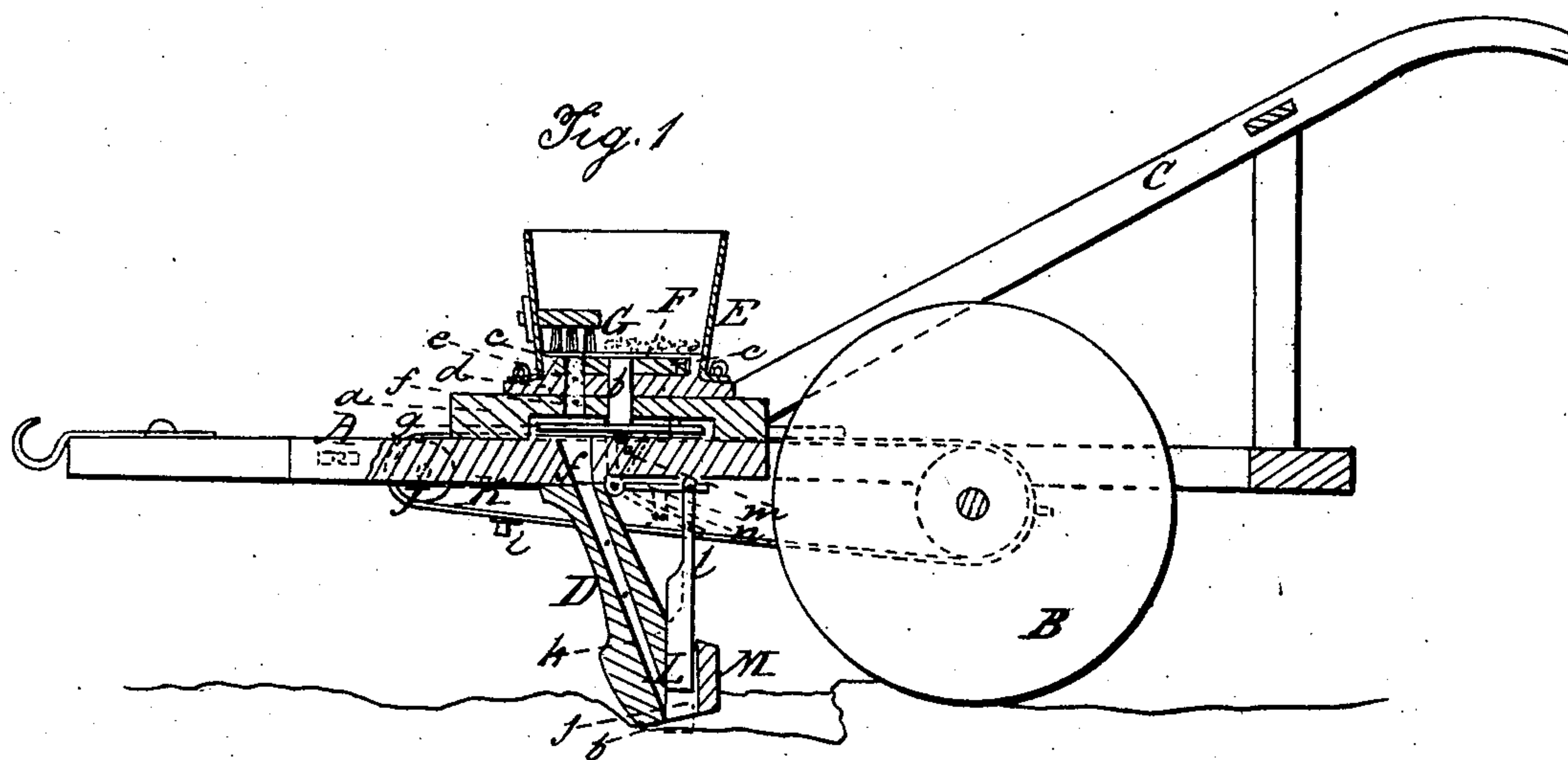


D. R. ALDEN.

Seed-Planter.

No. 18,127.

Patented Sept. 8, 1857



# UNITED STATES PATENT OFFICE.

D. R. ALDEN, OF UNIONVILLE, OHIO.

## IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. 18,127, dated September 8, 1857.

*To all whom it may concern:*

Be it known that I, D. R. ALDEN, of Unionville, in the county of Lake and State of Ohio, have invented a new and Improved Machine for Planting Corn and other Seed; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a longitudinal vertical section of my improvement, *xx*, Fig. 2, showing the plane of section. Fig. 2 is a plan or top view of the same.

Similar letters of reference indicate corresponding parts in the two figures.

My invention consists in the peculiar means employed for operating the distributing-wheel, whereby the seed may be planted at varying distances apart, as desired.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents the frame of the implement, which is supported by a wheel, B, the frame having handles C C attached to it in the usual manner.

D represents a conveying-spout, which is attached to the under side of the frame A, directly in front of the wheel B. This spout is somewhat inclined, its lower end being nearer the wheel B than its upper end.

On the frame A, directly over the spout D, a block, *a*, is secured, and on this block a hopper, E, is placed.

In the bottom of the hopper E a wheel, F, is fitted horizontally, the wheel F being on the upper end of a shaft, *b*, which passes through the block *a*, and is stepped in the frame A, as shown at *b'*, Fig. 1. The wheel F has a series of holes, *c*, made through it at equal distances apart near its periphery, and through the bottom *d* of the hopper a hole, *e*, is made, said hole *e* being in line with openings *ff'* in the block *a* and frame A, the openings *ff'* being in line and communicating with the spout D. (See Fig. 1.)

Within a recess in the block *a* a wiper-wheel, *g*, is fitted. This wiper-wheel *g* is secured on the shaft *b*, and the ends of its arms project a short distance beyond one side of the block *a*.

Within the hopper E a brush, G, is secured.

This brush serves as a cut-off, and is of course placed in line with or over the opening or hole *e* in the bottom *d* of the hopper.

To one side of the wheel B, and concentric with it, a pulley, H, is secured, and to one side of the frame A a curved bar, I, is attached, said bar I having a pulley, J, fitted within it. The bar I is attached to the frame A by set-screws *h*.

Around the two pulleys H J a belt, K, is placed, and on this belt projecting knobs *i* are secured in any proper manner, the knobs being secured to the belt at equal distances apart.

L represents a plunger, which is fitted in a share, M, formed at the lower part of the conveying-spout D, said plunger working in an opening, *j*, which intersects the lower end of the bore *k* of the spout D, as clearly shown in Fig. 1. The stem *l* of the plunger L is connected to one end of a bent lever, *m*, which is attached to the under side of the frame A. One end of this lever *m* extends upward by the side of the block *a* opposite to the side where the belt K works. A spring, *n*, bears against the lever *m*.

The operation is as follows: As the machine is drawn along the belt K is moved in the direction indicated by the arrow, (see Fig. 2,) and the knobs *i* on the belt catch against the ends of the arms of the wiper-wheel *g* and rotate the wheel F intermittently, the seed in the holes *c*, as said holes pass underneath the brush or cut-off G and come in line with the holes *eff'*, dropping into the spout D, and by it conveyed into the furrow. The wheel F may be rotated at greater or less intervals by placing the knobs *i* on the belt K at a greater or less distance apart, and consequently the seed may be dropped at any required distance. As the wiper-wheel *g* rotates its arms at the side of the block *a* opposite to where the belt K is placed strike against the bent lever *m*, and the plunger L is forced downward in the aperture or opening *j* in the share, said plunger being elevated as the arms pass the end of the lever *m* by the spring *n*. The plunger L by its operation effectually prevents the choking of the spout by the seed, and also keeps the lower end free from dirt, which might casually be forced into it. Seed, if a little damp, is quite liable to choke or clog in the spout, and the



soil also, if moist, is quite liable to become packed in the lower end of the spout. The plunger obviates these difficulties.

I do not claim the wheel *F* for distributing the seed or conveying it from the hopper into the spout, for they are well known and in quite common use; but,

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

Operating or rotating the wheel *F* by means of the belt *K*, having knobs *i* attached, and the wiper-wheel *g*, attached to the shaft *b* of the wheel *F*, the above parts being arranged substantially as shown and described.

D. R. ALDEN.

Witnesses:

GEO. D. LEE,  
B. W. STONE.