D. & H. WOLF.

Seed Planter.

No. 29,839. Patented Aug. 28, 1860.

Fig. 1.

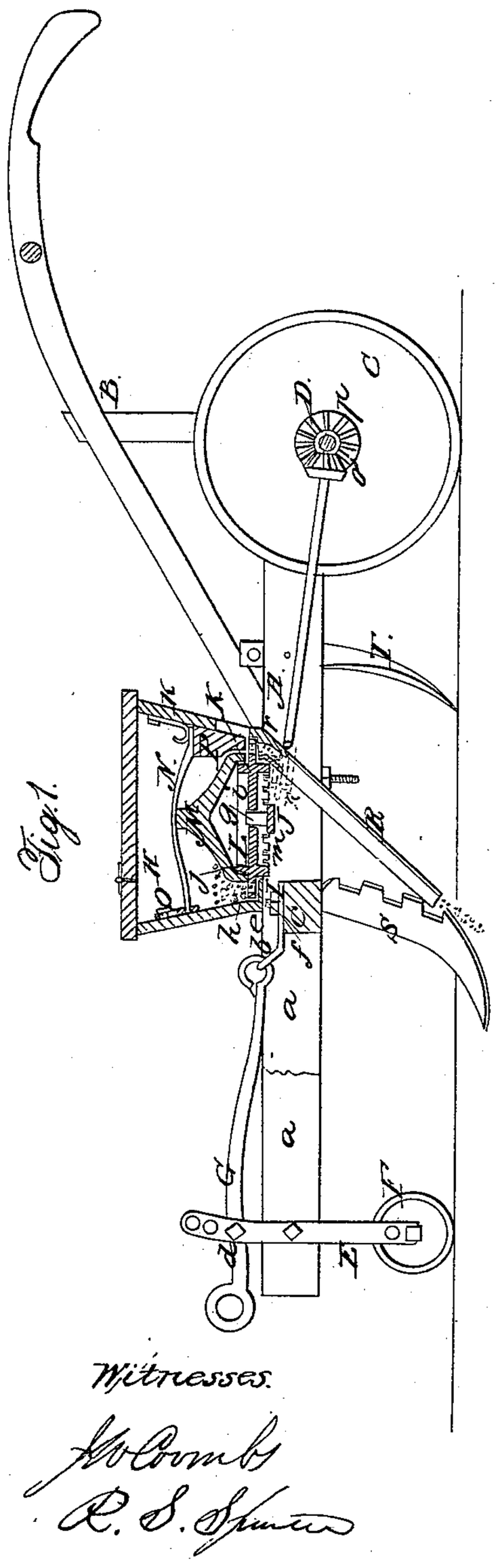


Fig. 3

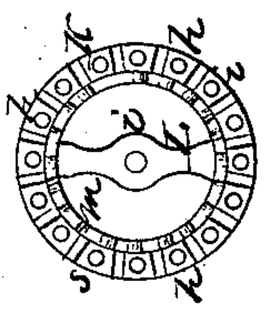
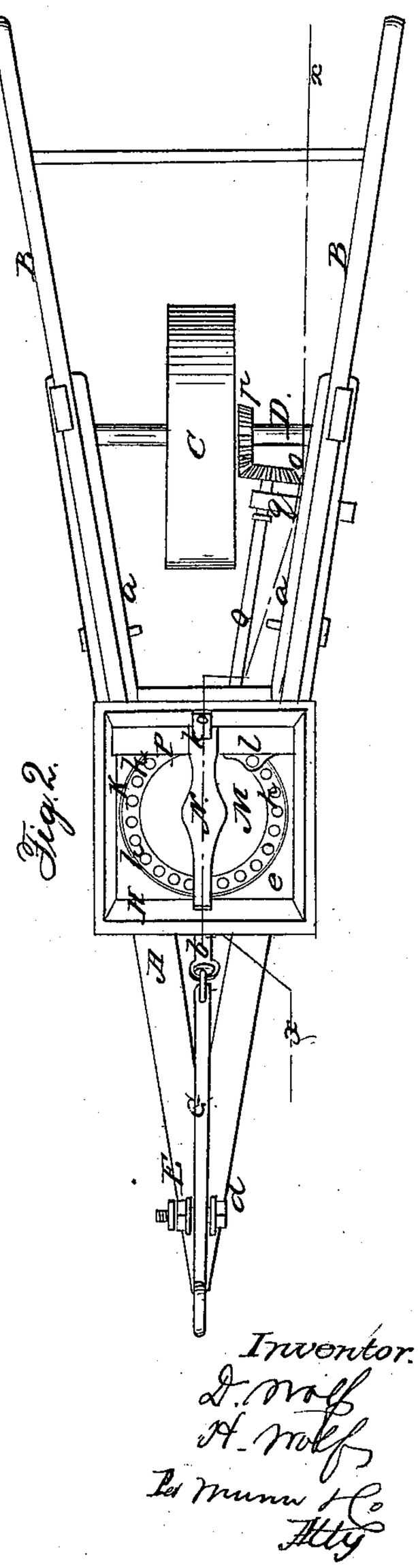


Fig. 2.



Witnesses.

H. Coombs

R. S. Spencer

Inventor.

D. Wolf

H. Wolf

Per Munn & Co

Attys

UNITED STATES PATENT OFFICE.

D. WOLF AND H. WOLF, OF LEBANON, PENNSYLVANIA.

IMPROVEMENT IN CORN-PLANTERS.

Specification forming part of Letters Patent No. **29,839**, dated August 28, 1860.

To all whom it may concern:

Be it known that we, D. WOLF and H. WOLF, both of Lebanon, in the county of Lebanon and State of Pennsylvania, have invented a new and Improved Corn-Planter; and we 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 side sectional view of our invention, taken in the line *x x*, Fig. 2; Fig. 2, a plan or top view of the same; Fig. 3, a detached inverted plan of the annular seed-dropping plate.

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

This invention relates to an improved seed-distributing device, hereinafter fully described, whereby the corn may be dropped or discharged from the hopper with regularity, or in a uniform manner, and the device rendered capable of being adjusted to suit kernels of different sizes and forms.

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

A represents the frame of the machine, which is formed of two bars, *a a*, having an oblique position relatively with each other, and connected at their front ends, so as to be of V form, as shown clearly in Fig. 2.

B B are handles attached to the frame A, and C is a wheel, the axle D of which is at the back part of the frame and fitted in suitable bearings attached thereto.

At the front part of the frame A there is placed an adjustable roller-frame, E, the roller F being fitted in the lower part of said frame.

G is a metal rod, the back end of which is hooked in an eye, *b*, attached to a traverse-bar, *c*, of the frame, and the front end fitted in the upper part of the roller-frame E, and secured therein at any desired point by a screw-bolt, *d*.

On the frame A a hopper or seed-box, H, is placed, the bottom *e* of which has a circular opening, I, made in it, and a rabbet or recess, *f*, is made in the bottom around the edge of the opening I, as shown clearly in Fig. 1.

J is a traverse-bar, which extends centrally across the opening I of the bottom *e*, and has an upright pivot, *g*, at its center.

K is an annular plate, which is perforated with holes *h*, and is fitted in the rabbet or recess *f* in the bottom *e* of the hopper, and is allowed to rotate freely therein. This plate K is provided with a cross-bar, L, which has a hole or opening, *i*, at its center, and is fitted on the upright *g*, on which it turns as a center. The plate K, at its inner edge, is provided with a vertical flange, *j*, over which a conical cap, M, fits, the lower edge or base of the cap being at the inner sides of the perforations *h* in the annular plate K.

N is a metal bar, the front end of which is fitted under an adjustable plate, O, attached to the inner surface of the front side of the hopper H. The back end of the bar N is attached to a strip, P, which is placed in the back part of the hopper H, and rests on the bottom *e*, and is secured in proper place by a button, *k*. To this strip P a brush, *l*, is attached, which serves the common function of scraping off the superfluous seed or kernels from the holes *h* as the latter pass under it. The bar N serves as a bearing for the apex of the cap M, and the pressure of the bar N on the cap may be regulated as desired by adjusting the plate O.

The under surface of the plate K has teeth *m* on it, and these teeth gear into a pinion, *n*, at the front end of a longitudinal shaft, Q, the back end of which has a bevel-wheel, *o*, on it, which wheel gears into a corresponding wheel, *p*, on the axle D. The back bearing, *q*, of the shaft Q is adjustable, so as to admit of different-sized wheels *o* being placed on the shaft Q.

In the bottom *e* of the hopper H, and underneath the strip P, a hole, *r*, is made, and directly below this hole there is an inclined tube, R, which projects down directly behind a furrow-share, S, attached to the frame A, as shown clearly in Fig. 1. The share S is notched at its sides to serve as a kind of screen to keep off heavy clods and admit of the fine earth passing through. T T are covering-shares, attached to the frame A behind the hopper.

The under side of the annular plate K is grooved, as shown at *s* in Fig. 3, the object of which will be presently stated.

The operation is as follows: The draft-power is attached to the rod G, and the depth of the furrow made by share S may be regulated, as desired, by adjusting the roller-frame E and rod G. As the implement is drawn along the annular plate K is rotated from the axle D by means of the gearing *o p n m*, and the

holes *h* take the corn from the hopper and convey it over the hole *r*, through which it is discharged into the tube R, the brush *l* and strip P serving as cut-offs. The conical cap serves as a guide to direct the corn properly to the holes *h*, so that the latter will be regularly filled and a uniform discharge of corn from the hopper insured. At the same time the rotation of the cap M causes the kernels to settle within the hopper, so that all clogging or choking is prevented.

The perforations *h* in the annular plate K may be larger or smaller, and placed at a greater or less distance apart, as occasion may require. Several plates K may accompany each machine, and either used as may be required, the plates being readily detached from the machine, and also readily adjusted in proper position.

We prefer to have the plate K and cap M made separately, although, if desired, the cap and plate may be cast in one piece. In this case a greater expense would be involved in having a plurality of plates K, as a cap M would necessarily accompany each plate, whereas in the former case one cap would answer for all the different plates used.

The grooves *s* permit the dust and chaff to escape down through the opening I, said grooves scraping the dust and chaff inward, and also scraping it to the hole *r*, so that a portion may escape down the tube R.

The speed of rotation of the plate K may be varied by fitting wheels *o* on the shaft Q of various sizes.

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

The arrangement of the conical cap M, flanged perforated toothed plate K, bar N, adjustable plate O, tube R, notched share S, shaft Q, axle D, and beam A, all as herein shown and described, for the purpose set forth.

D. WOLF.
H. WOLF.

Witnesses:
M. G. GLEIM,
JOSEPH GLEIM.