A. PALMER.

Seed-Dropper.

No. 7,642 Patented Sept. 10, 1850.

Fig. 1

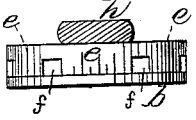


Fig. 3

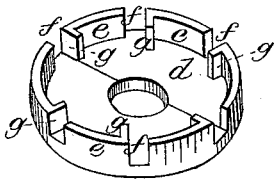


Fig. 4

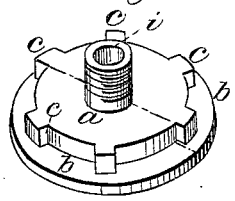
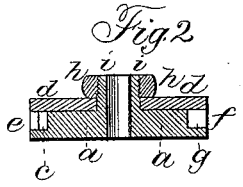


Fig. 2



UNITED STATES PATENT OFFICE.

AARON PALMER, OF BROCKPORT, NEW YORK.

IMPROVEMENT IN THE SEEDING-ROLLER OF A SEED-PLANTER.

Specification forming part of Letters Patent No. **7,642**, dated September 10, 1850.

To all whom it may concern:

Be it known that I, AARON PALMER, of Brockport, in the county of Monroe and State of New York, have invented a new and Improved Seeding-Wheel for Planting-Machines; and I do hereby declare the following to be a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side elevation; Fig. 2, a sectional view in the direction indicated by the red lines in Figs. 3 and 4, and Figs. 3 and 4 are perspective views of the two principal component parts of the seeding-wheel detached.

Similar letters indicate like parts in all the figures.

My improved seeding-wheel for planting-machines is constructed by the union of the two parts which are represented in Figs. 3 and 4.

d is a disk with a hole in its center, and having a series of segmental flanges, *e*, rising from its periphery, between which flanges are the openings *f f*, at one extremity of each of the flanges *e e*. They turn inward toward the center of the disk, as shown at *g g*, Fig. 3.

a is a disk, having the flange *b* projecting from its outer side, the lugs *c c* radiating from its periphery, and the tube *i* projecting from its center. The disk *a* is received within the segmental flanges *e e* rising from the disk *d*, and the tube *i* passes through the hole in the center of *d*, as shown in Fig. 2. The depth of the disk *a* corresponds with the height of the flanges *e g*, and the lugs *c c*, radiating from the periphery of *a*, extend outward to the inner surfaces of the flanges *e e*. The flange *b*, radiating from the outer side of *a*, bears upon the extremities of the segmental flanges *e e*, rising from *d*, and its periphery corresponds with the periphery of the said segmental flanges. When the parts *a* and *d* are thus placed together they are secured by the nut *h*, which works upon the screw cut upon the tube *i*.

The seeding-wheel thus constructed is placed upon the shaft of a planting-machine, within the grain or seed receptacle, in any usual or well-known manner, the shaft passing through the tube *i*.

f f are openings to the planting-receptacles in the periphery of the seeding-wheel, the boundaries of which receptacles are formed by the inner surfaces of the segmental flanges *e e*, the outer periphery of *a*, the lugs *c c*, and the radial portions *g g* of the segmental flanges; or, when very shallow planting-receptacles are required, they are bounded by the sides of the openings *f f* and by the extremities of the lugs *c c*. It will therefore be perceived that by loosening the nut *h* and turning the part *a* within the inclosing part *d*, so as to bring the lugs *c c* under the openings *f f*, or by turning the part *a* in an opposite direction, so that the wings *c c* will be carried toward the rear sides of *g g*, the planting-recesses can be made small and shallow enough for the smallest description of seeds or large and deep enough for any kinds of grain, or for depositing a larger or a smaller quantity of seeds at a time.

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

The constructing a seeding-wheel for a planting-machine by the combination of the two parts *a* and *d*, of the form herein described, in such a manner that by turning one of the said parts within or upon the other in one direction the planting-receptacles will be reduced in depth and size, and by turning the said part of the seeding-wheel in an opposite direction the planting-receptacles will be enlarged in depth and size, substantially as here in set forth.

AARON PALMER.

Witnesses:
C. G. WILLIAMS,
C. W. PALMER.