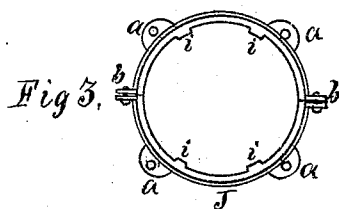
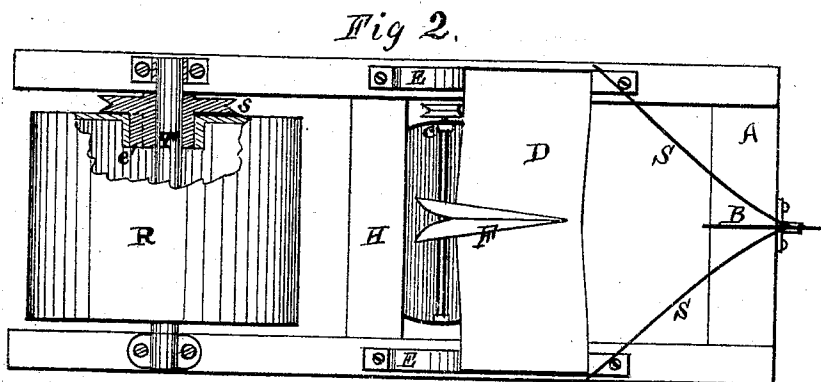
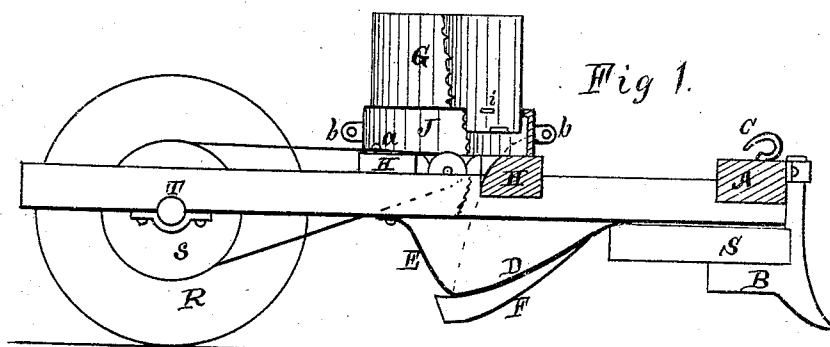


N. FOSTER.
Cotton-Seed Planters.

No. 149,279.

Patented March 31, 1874.



Witnesses.
Daniel Hood
E. A. Hitchcock

Inventor.
N. Foster
By Wm. Loughborough
Atty

UNITED STATES PATENT OFFICE.

NEWTON FOSTER, OF PALMYRA, NEW YORK, ASSIGNOR TO HARLAN P.
FOSTER, OF TECUMSEH, NEBRASKA.

IMPROVEMENT IN COTTON-SEED PLANTERS.

Specification forming part of Letters Patent No. **149,279**, dated March 31, 1874; application filed
September 22, 1873.

To all whom it may concern:

Be it known that I, NEWTON FOSTER, of Palmyra, in the county of Wayne and State of New York, have invented certain Improvements in Cotton-Seed Planters, of which the following is a specification:

This invention consists, in part, in simplifying and cheapening the construction of certain portions of the machine as patented by me on the 11th of February, 1868; and also in the application of a smoothing-plate acting in connection with the marker and the guiding-blade and scrapers, all of which are arranged to precede the covering-roller.

Figure 1 is a longitudinal sectional elevation of my invention. Fig. 2 is an inverted view of the same. Fig. 3 is a top or plan view of the seed-hopper yoke or support.

When the machine is to be used in lumpy or stony ground, the blade B should be provided with a narrow scraper, S, on each side, to clear the surface of the ridge. These scrapers may be detachably connected to the blade, or a plain blade may be substituted for the one having the scrapers attached, when their use is not required. C is the draft-hook. I allow the whole front portion of the machine to rest upon the smoothing-plate D, which is made slightly arched, and is provided at each end with suspender-bars E, by which it is held in an inclined position, as shown in Fig. 1. The marker F is rigidly fixed to the center of the plate D, and forms a sort of furrow in which the seed is deposited, and the ordinary covering-wings

may be hung directly in front of the roller R. The seed-hopper is composed of a sheet-iron drum, G, which is hung in a cast-iron yoke, J. This is made in halves, as shown in Fig. 3, which are connected together by bolts through the lugs *b*, and the projections *i* enter indentations formed in the drum, which is thereby supported. Four lugs, *a*, are provided, by which it is bolted to the cross-bars H. The hanger-boxes *c*, for the driving-shaft of the distributing apparatus, are also formed upon the yoke, as shown.

I greatly simplify and cheapen the construction of the roller R by using a fixed shaft. The sheave *s* is formed with a key, *e*, upon one side of its hub, which enters a corresponding recess in that head of the roller, which causes it to turn with the latter. These parts require no mechanical fitting, except to bore out the sheave *s* and the opposite head of the roller.

The shaft T may be rigidly fixed to the frame by means of a staple, or by the use of an ordinary half-box bolted at each end to the side rails of the frame.

What I claim as my invention is—

The guiding-blade B and wings or scrapers S, in combination with the inclined concave smoothing-plate D, opener E, and covering-roller R, substantially as and for the purposes set forth.

NEWTON FOSTER.

Witnesses:

LYMAN LYON,
OLIVER DURFEE.