N. FOSTER.

Cotton-Seed Planters.

No. 149,279. Patented March 31, 1874.

Fig 1.

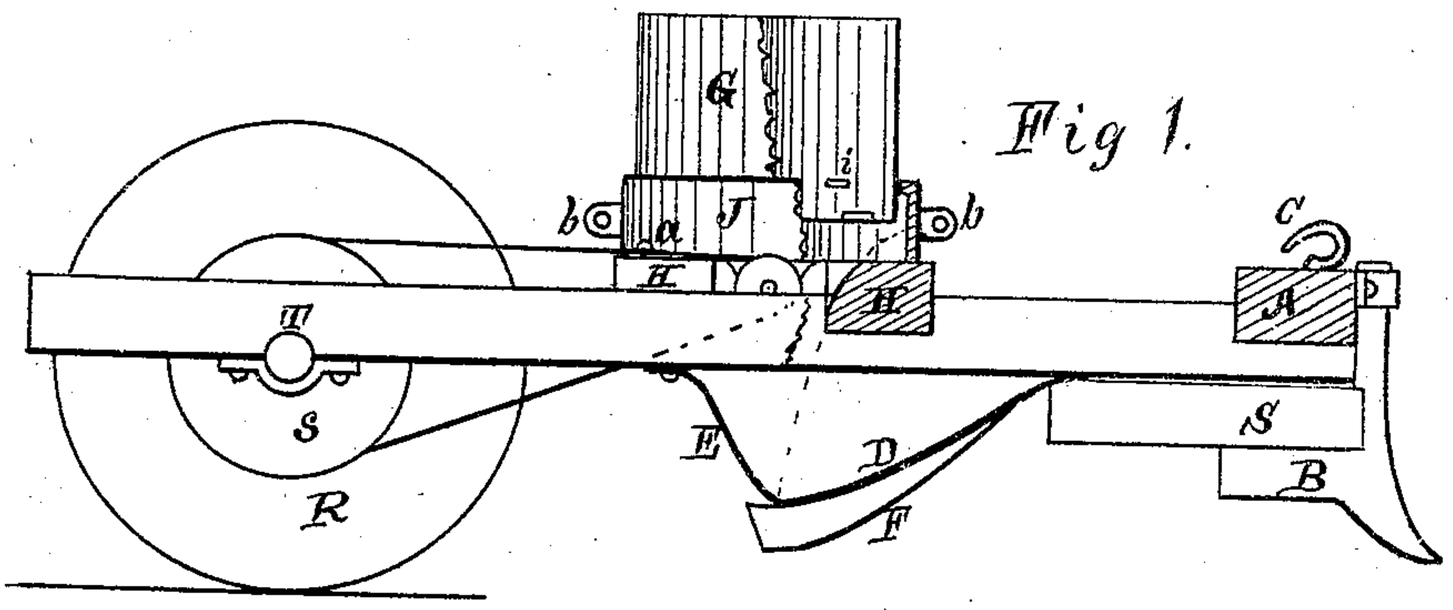


Fig 2.

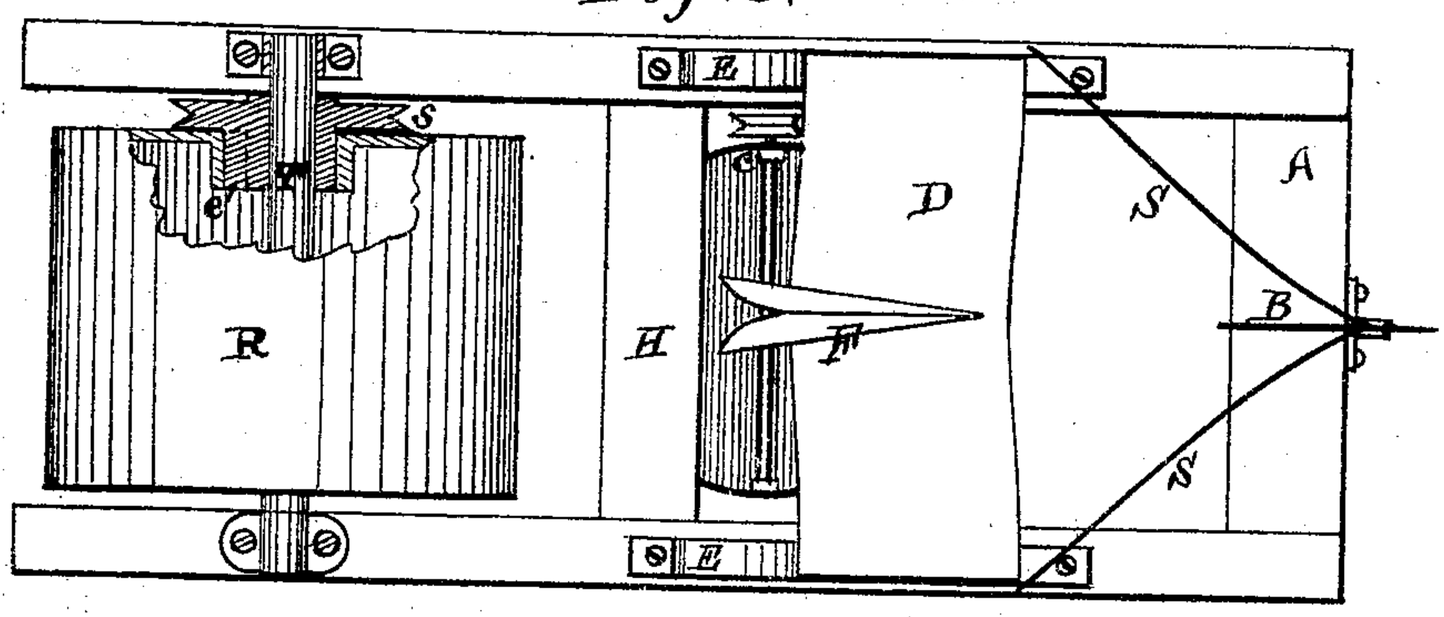
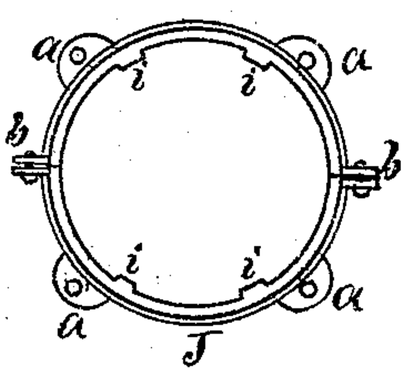


Fig 3.



Witnesses.
Daniel Flood
F. A. Hitchcock

Inventor.
N. Foster
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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 puposes set forth.

NEWTON FOSTER.

Witnesses:
LYMAN LYON,
OLIVER DURFEE.