T. J. ROGERS.

Cotton-Planter.

No. 18,104. Patented Sept. 1, 1857.

Fig. 2.

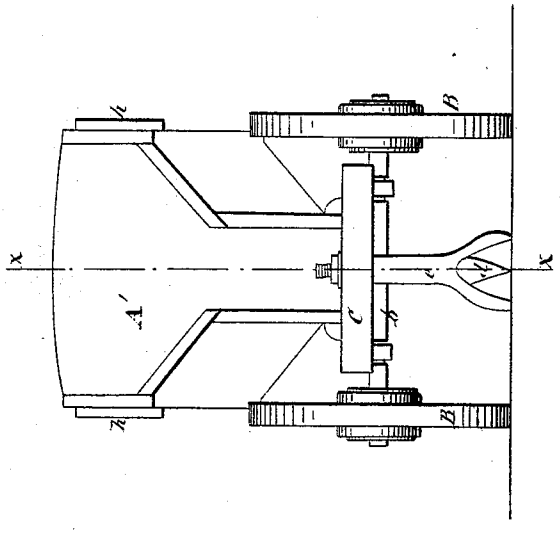


Fig. 4.



Fig. 1.

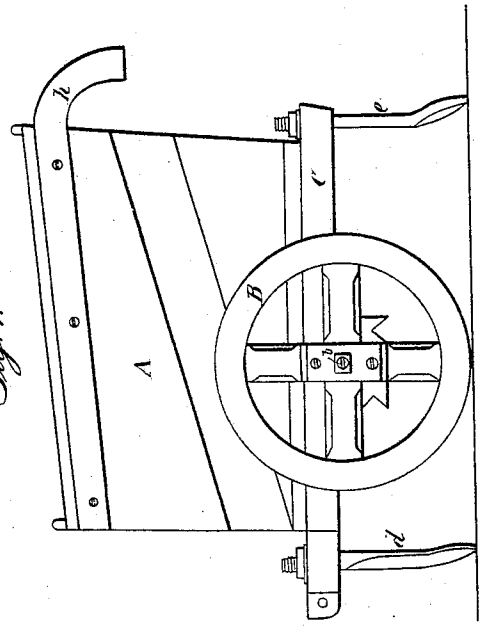
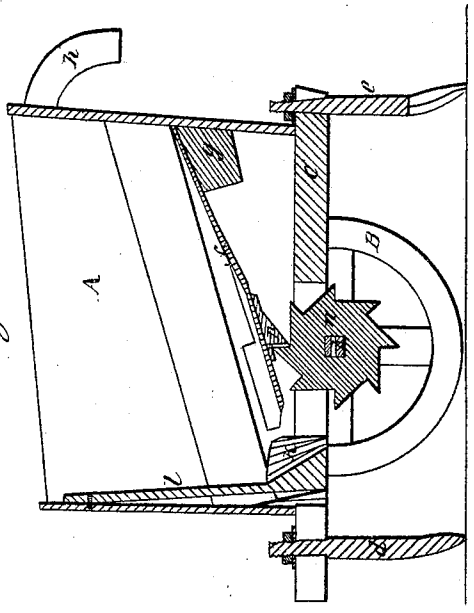


Fig. 3.



AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

THOMAS J. ROGERS, OF CASSVILLE, GEORGIA.

IMPROVEMENT IN COTTON-SEED PLANTERS.

Specification forming part of Letters Patent No. **18,104**, dated September 1, 1857.

To all whom it may concern:

Be it known that I, THOMAS J. ROGERS, of Cassville, in the county of Cass and State of Georgia, have invented an Improved Cotton-Seed Planter; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making a part of this specification—

Figure 1 being a side elevation of said planter; Fig. 2, an elevation of the rear end of the same; Fig. 3, a section in the line *x x* of Fig. 2, and Fig. 4 a plan of a detached portion of the planter.

Similar letters indicate the same parts in each drawing.

The seed-box A A′ of my improved planter is mounted upon a strong platform, C, which rests upon the axle *b* of a pair of driving-wheels, B B. The bottom of the seed-box is of such a shape as to cause the seeds to incline inward and forward toward a planting-aperture in the front end of said box. The curved front end of the inclined elastic plate *f* forms the after side of the planting-aperture in the seed-box, and the forward side of said aperture is formed of a flaring concavity, *k*, at the lower end of the plate *l*, which is secured to the forward end of the seed-box in such manner that it may be moved up or down, and thereby increase or diminish the size of the planting-aperture. The rear end of the inclined elastic plate *f* is secured to the block *g*, which is made fast to the rear end, A′, of the seed-box.

A ratchet-wheel, *n*, is secured to the central portion of the axle *b*, and a hardened shoulder, *p*, is secured to the under side of the plate *f* in such a position that the teeth of said ratchet-wheel will act against said shoulder, and thereby produce a rapid vibratory movement of the said elastic plate *f* when the planter is drawn forward.

The pointed marker *d*, which descends from the forward end of the platform C, forms a drill for the reception of the seeds, and the forked scraper *e*, which descends from the rear end of said platform, covers the seeds after they have been deposited in the drill.

The spring-plate *f* should be of such a degree of strength and stiffness as will insure its rebounding sharply the instant it is relieved from the action of each one of the teeth of the ratchet-wheel *n*. My invention therefore consists in forming one side of the eduction-aperture in a cotton-seed planter of the extremity of a sharply-vibrating elastic plate.

This invention has been thoroughly and practically tested with a full-sized machine, and has proved itself to be capable of uniformly and perfectly depositing the proper number of cotton-seeds in a drill; and also that the number of seeds deposited could be varied by changing the position of the concave *k*, which forms the front side of the planting-aperture.

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

Forming one side of the eduction-aperture of a cotton-seed planter of the extremity of a sharply-vibrating plate when the opposite side of said aperture is formed of an adjustable flaring concave, substantially as herein set forth.

The above specification of my new and improved cotton-seed planter signed and witnessed this 1st day of June, 1857.

THOMAS J. ROGERS.

Witnesses:

THOS. G. DUNLAP,

ABDA JOHNSON.