

J. M. BROWN.  
Walking Planters.

No. 196,517.

Patented Oct. 30, 1877.

Fig 1

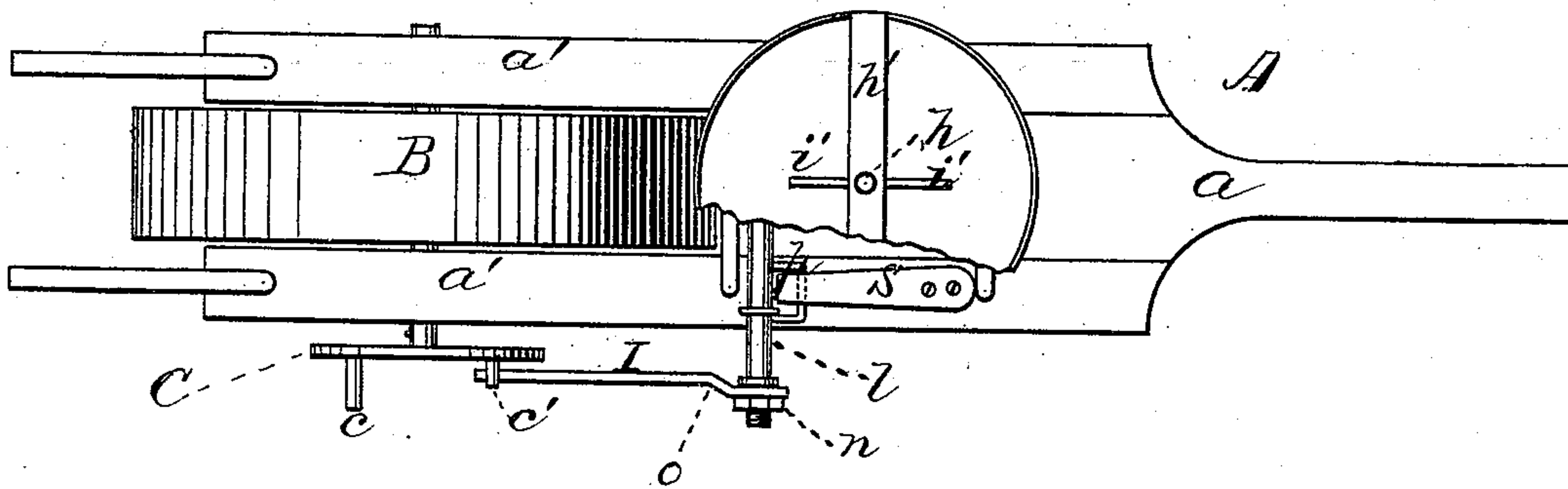
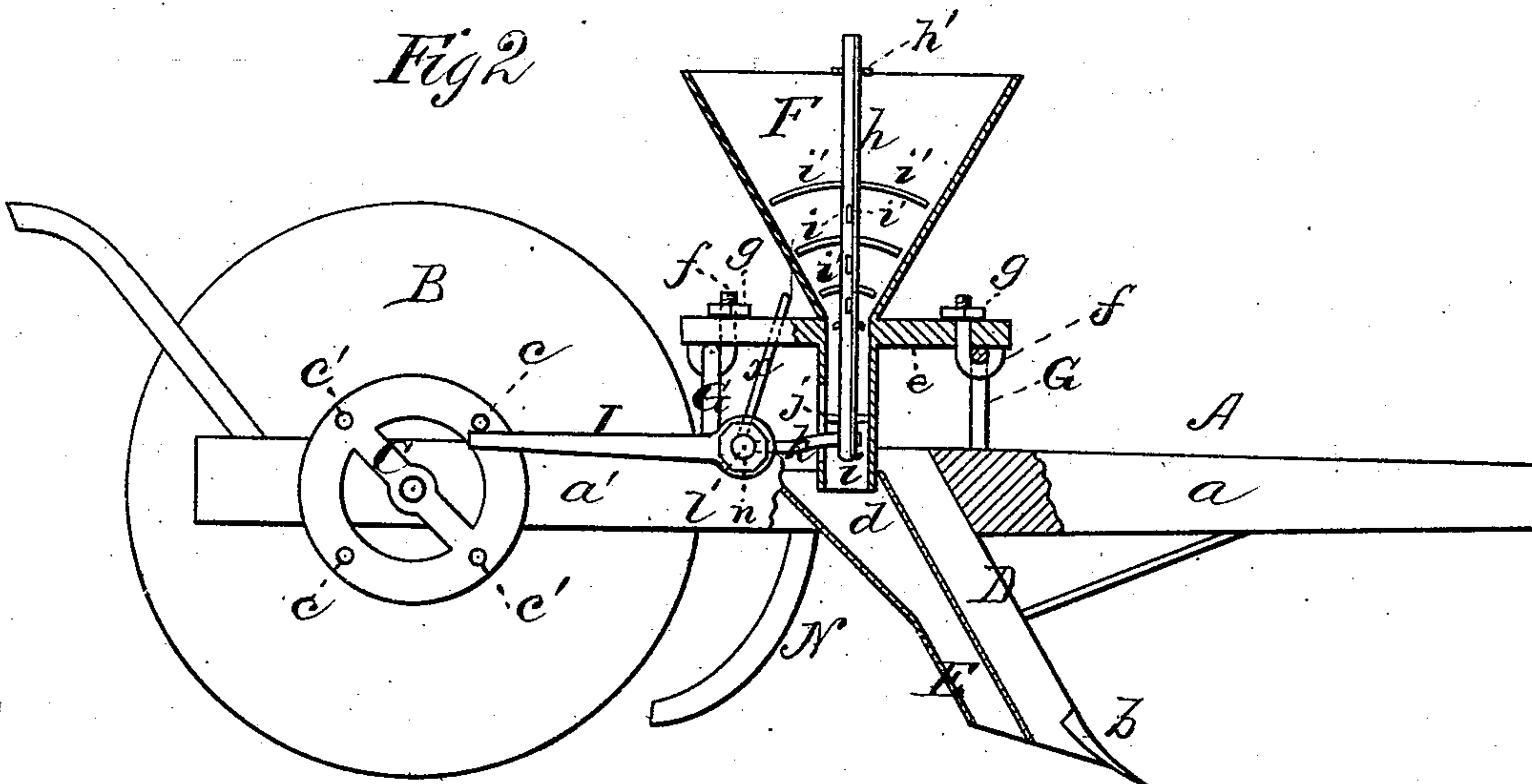


Fig 2



WITNESSES

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# UNITED STATES PATENT OFFICE.

JOSEPH M. BROWN, OF FLORENCE, TEXAS.

## IMPROVEMENT IN WALKING-PLANTERS.

Specification forming part of Letters Patent No. **196,517**, dated October 30, 1877; application filed August 20, 1877.

*To all whom it may concern:*

Be it known that I, J. M. BROWN, of Florence, in the county of Williamson and State of Texas, have invented a new and valuable Improvement in Walking-Planters; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a top view of my improved planter; and Fig. 2, a side view thereof, partly in section.

This invention has relation to improvements in cotton-planters; and the nature of the invention consists in the construction and novel arrangement of the various devices used, as will be hereinafter more fully set forth.

In the annexed drawings, the letter A designates the frame of my improved planter, consisting of a tongue, *a*, and two spaced side rails, *a'*. B indicates a transporting-wheel of suitable dimensions, and having a broad tread, that has its bearings between the rails *a'*, near their rear ends. C represents a feed-wheel, rigidly secured upon the end of one of the journals of wheel B, outside of the contiguous rail *a'* of the frame, and provided with a number of regularly-spaced projecting tappet-pins, *c c'*. These are preferably four in number, and those of each pair are respectively of the same length, the former, *c*, being longer than the latter, *c'*, for a purpose hereinafter set forth.

D indicates an inclined standard, carrying upon its end the usual opening-shovel *b*, and braced in any suitable manner to the tongue *a*. In rear of this standard, and secured thereto, is a metallic dropper-spout, E, extending upward between the rails *a'* of the frame, and terminating in an enlarged hopper-shaped mouth, *d*, in which the lower end of a funnel-shaped hopper, F, is received, followed by the coverer N. This hopper is sustained by a longitudinal beam, *e*, rigidly but removably secured at each end to a raised transverse metallic bridge, G, erected upon the frame in front of the wheel, by means of hook-bolts *f*, that engage said bridges, extend up through the beam *e*, and are provided upon their upper screw-threaded ends with a clamp-nut, *g*, which, when

forcibly set up, effectually secure the hopper to the frame. Within this hopper, at its lower end, is arranged a bearing for a vertically-reciprocating rod, *h*, the upper end of which extends through a brace, *h'*, at the upper end of the hopper. This rod has on its lower end an eye, *i*, and upon its central portion, inside of the hopper, a series of radial arms, *i'*, that serve, when the rod is raised, to loosen up the cotton-seed, and allow it to fall into the spout through the bearing-valve *j* in the neck of the hopper.

The eye *i* is engaged by an arm, *k*, projecting from a transverse rock-shaft, *l*, mounted on the frame in rear of the hopper, and extending through a vertical slot in the neck of the hopper. This shaft is provided upon one end with an adjustable operating-arm, I, that extends to the rear, and is engaged by the tappet-pins *c c'* in succession, thus causing an intermittent reciprocating motion to be imparted to the rod *h*, and the seed to be dropped at regular intervals in the furrow.

The lever I is applied upon the shaft *l* by means of a set-nut, *n*, and can be adjusted for planting seed thick or thin. If it be desired to plant thick, loosen the set-nut and raise the end of the lever I slightly and reapply the said nut. This increases the stroke of the lever, and consequently that of rod *h*, thus raising the latter higher in the hopper, and allowing a larger quantity of seed to fall into the spout. By lowering the end of the said lever, an opposite result will be attained.

The lever I, as shown in Fig. 1, is shouldered, as shown at *o*, and is of zigzag form. When it is applied to the rock-shaft, as shown in the drawings, all of the tappets *c c'* strike the said lever successively, thus planting at each revolution of the wheel a corresponding number of hills; but if it be removed, turned over, and then reapplied, with its end farther from the feed-wheel, only the longer tappets will engage it, thus increasing the spacing of the hills.

The downward stroke of the feed-rod *h* is produced by a strong spring, S, secured at one end to the frame, and bearing with the other upon a projecting spur, *p*, upon the rock-shaft *l*.

The entire frame, with its attachments, may be used for planting corn by loosening the hook-rods *f* and removing the hopper just de-



scribed, and applying a hopper of like form and the same mode of attachment, having a horizontal seed-dropper slide working through it, and operated from the rock-shaft *l* aforesaid by means of an arm, *x*, extending from the said shaft through a slot in the end of the said slide, projecting out of the hopper.

It is evident that the operation of the rock-shaft, its lever, the tappet-wheel, and the transporting-wheel will impart a reciprocating motion to the slide.

Having described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the hopper *F*, rigidly secured to bridge *G*, and having the endwise-reciprocating dropper-rod *h*, with spurs *i'* of

the rock-shaft *l*, having arms *kx* engaging said rod, the adjustable shouldered lever *l*, the set-nut *n*, the feed-wheel *C*, having tappets *c c'*, and the master transporting-wheel *B*, substantially as specified.

2. The spring *S*, secured at one end of the frame, and bearing with the other upon a projecting spur, *p*, upon a rock-shaft, *l*, in combination with the hopper *F* and feed-rod *h*, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOSEPH MORTON BROWN.

Witnesses:

R. B. CASKEY,

J. A. B. WHITTENBERG.