

J. ROSS.
Cotton Planter.

No. 19,874.

Patented April 6, 1858.

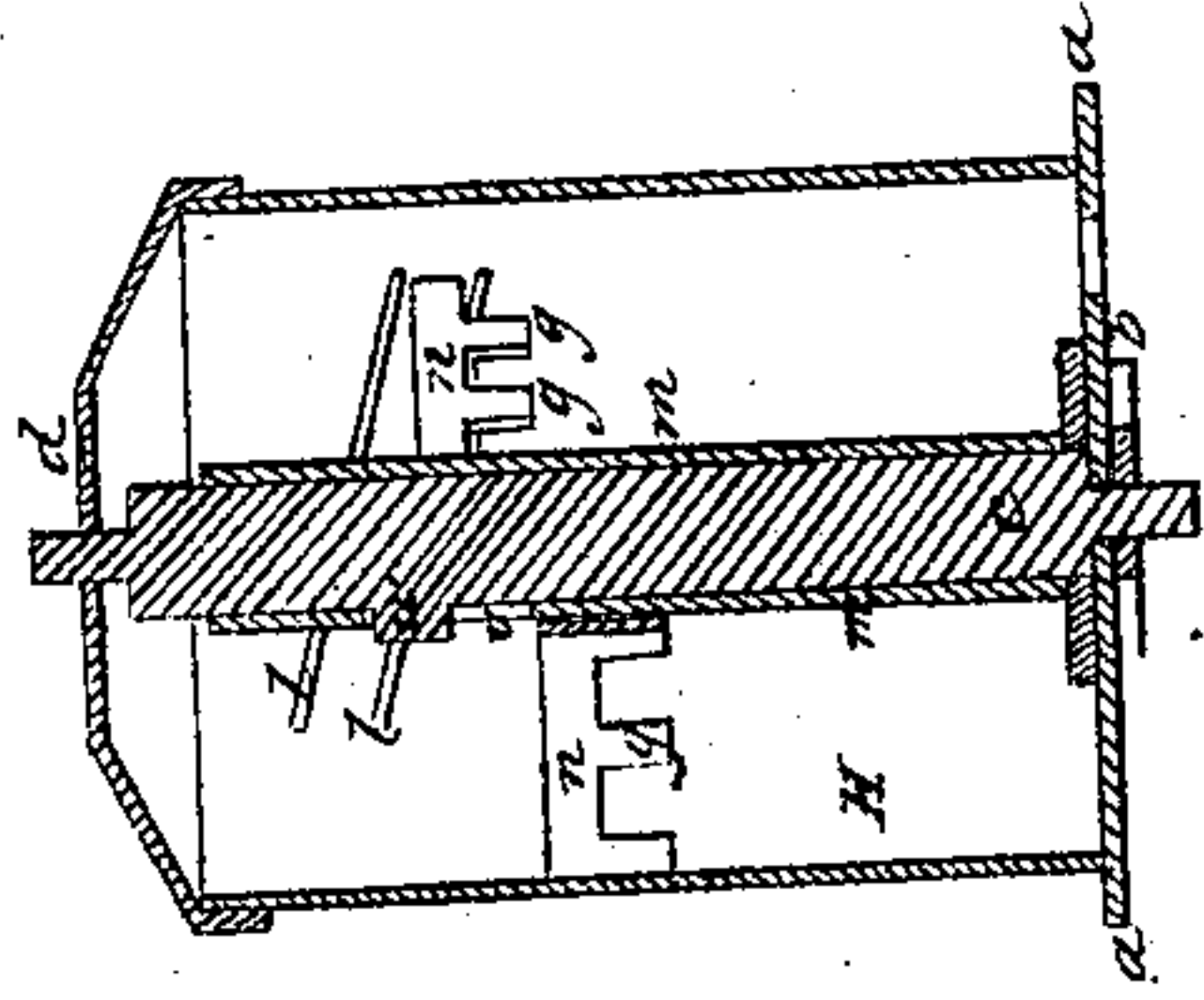


Fig. 3.

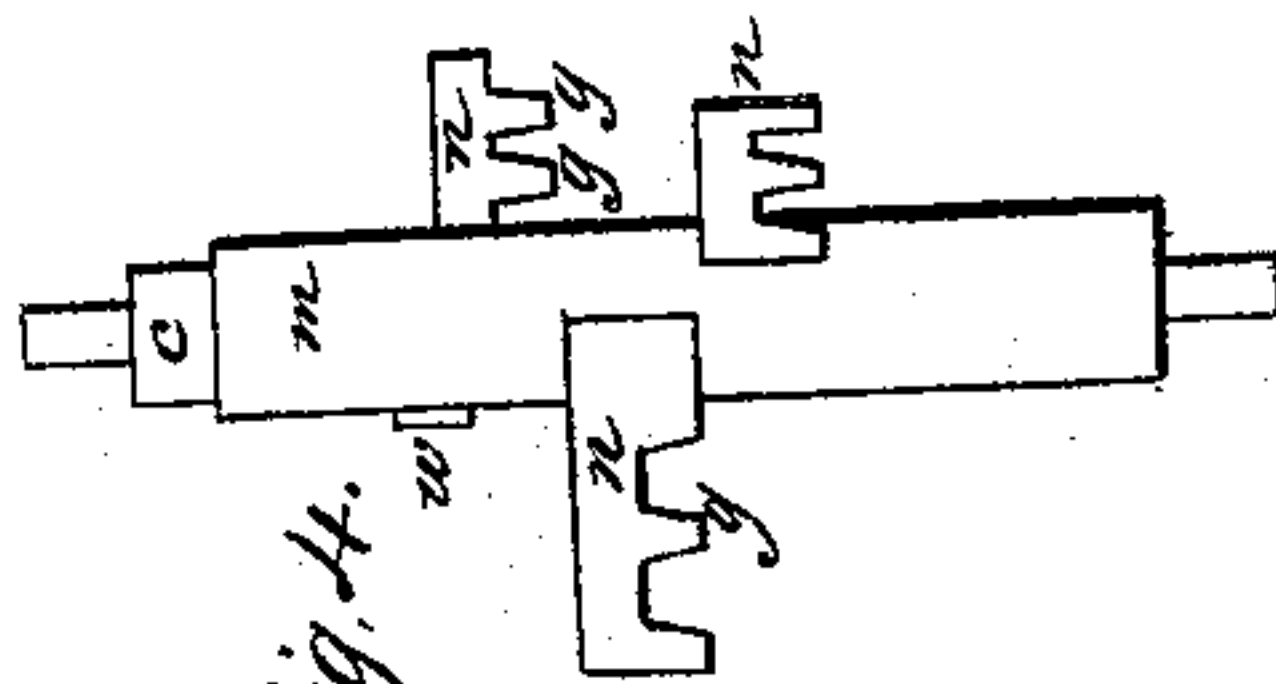


Fig. 4.

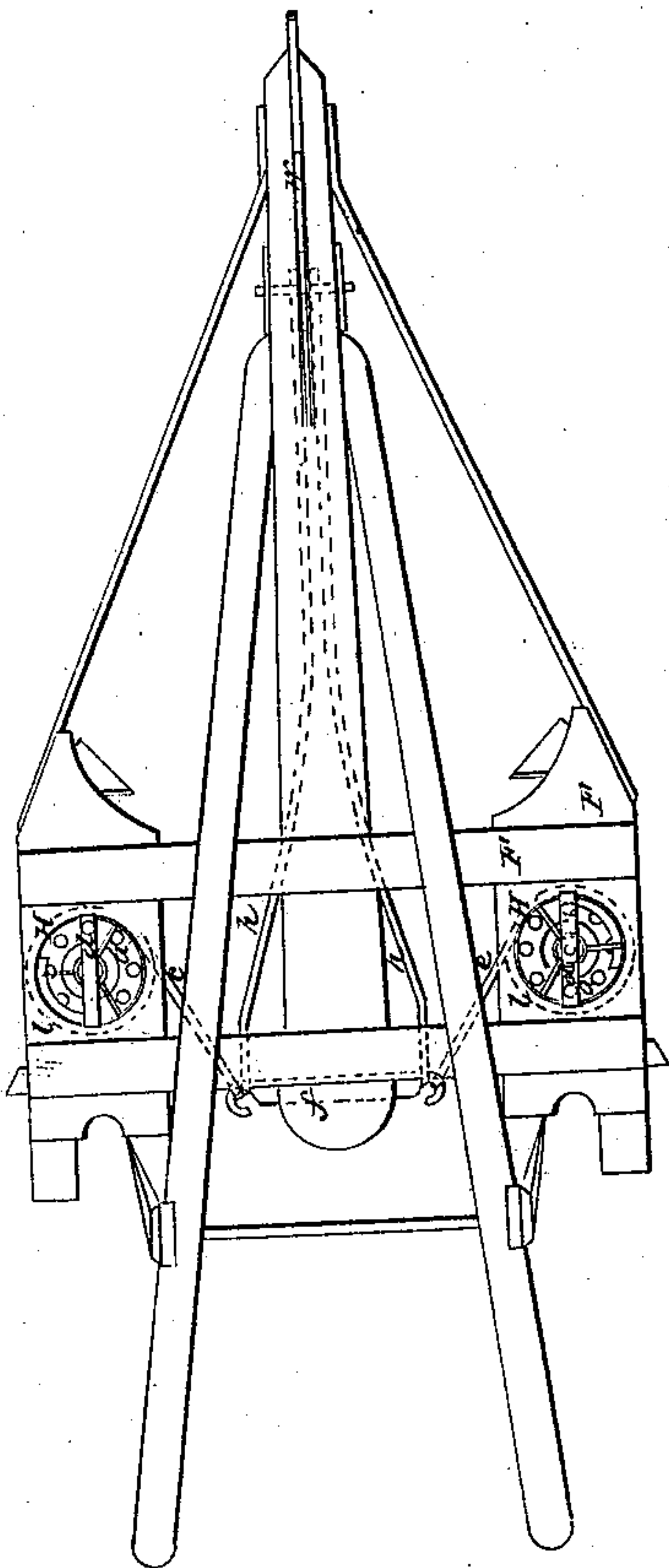


Fig. 1.

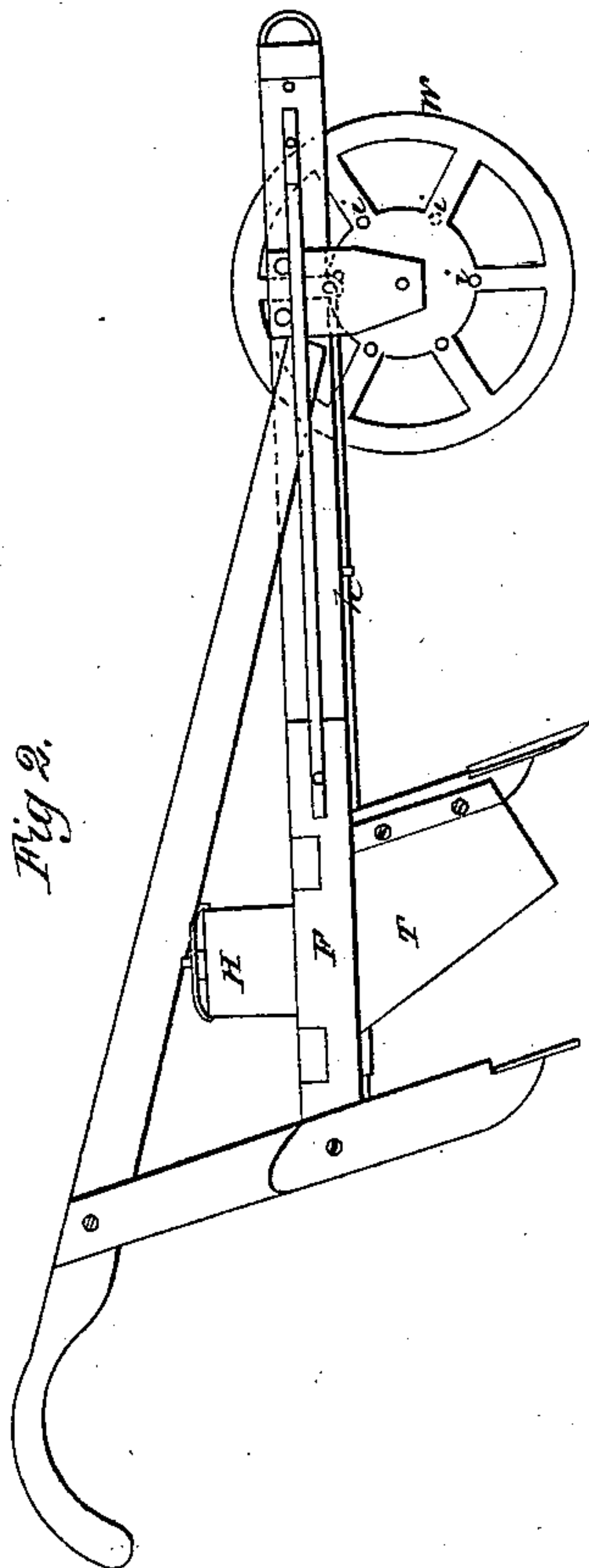


Fig. 2.

UNITED STATES PATENT OFFICE.

JAMES ROSS, OF MIDWAY, ALABAMA.

IMPROVEMENT IN COTTON-SEED PLANTERS.

Specification forming part of Letters Patent No. **19,874**, dated April 6, 1858.

To all whom it may concern:

Be it known that I, JAMES ROSS, of Midway, in the county of Barbour and State of Alabama, have invented a new and useful Improvement in Cotton-Seed Planters; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, forming part of this specification, in the several figures of which similar characters of reference denote the same part.

Figure 1 is a top view of the planter. Fig. 2 is a side view of the same. Fig. 3 is a vertical section of the hopper and agitator-shaft on a larger scale than is shown in Figs. 1 and 2. Fig. 4 is a view of the agitator.

The nature of my invention consists in combining with the discharge-plate an agitator having a combined vertical and oscillating movement for the purpose of more thoroughly preventing the packing of the cotton-seed in the hopper.

In the drawings, F is the frame. T T are the discharge-tubes, and H H are the hoppers. At the bottom of the hopper is a perforated plate, *a*, resting upon a cross-piece, *b*, and secured to an upright shaft, *c*, running upward through the hopper and held by brace *d* at top. The plate *a* is connected by a rod, *e*, with a lever, *f*, vibrated by means of rods *h h*, extending

forward and alternately acted upon by studs *i* on wheel W. This vibration of lever *f* causes the plates *a a*, and with them their shafts *c c*, to vibrate in their bearings *b d*. Around shaft *c* is a hollow shaft, *m*, from which extend any desired number of arms *n*, reaching to the inner face of the hopper, or nearly thereto. These arms have depending teeth *g*, as shown in Fig. 4. Upon the side of the hopper are two projecting flanges, *l l*, between which the extremity of one of the arms enters, causing the hollow shaft to rise and fall as it is rotated backward and forward by reason of its connection with shaft *c* by feather *w* and slot *v*. This compound motion of the agitator tends to loosen the seed and prevent it from packing and obstructing the discharge.

I claim—

The combination of the hollow shaft and arms, flanges *l l*, shaft *c*, discharge-plate *a*, and mechanism vibrating the same, arranged and operating substantially as and for the purpose set forth.

In testimony whereof I have hereunto signed my name before two subscribing witnesses.

JAS. ROSS.

Witnesses:

JAMES McCORMICK,
JOHN H. LESTER.