

(No Model.)

G. E. LUCKEY.
PEA THRASHER.

No. 336,012.

Patented Feb. 9, 1886.

Fig. 1.

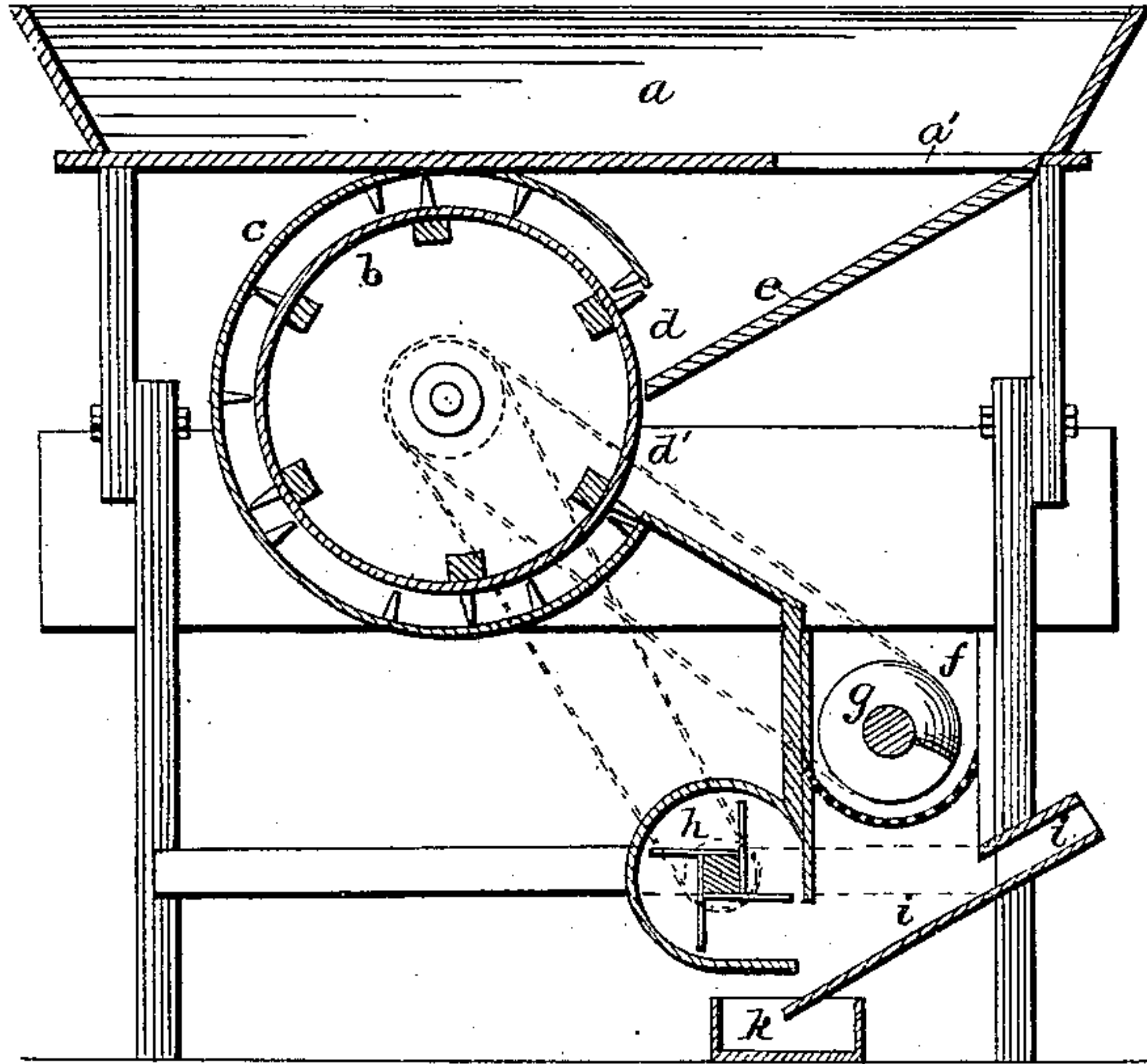


Fig. 2.

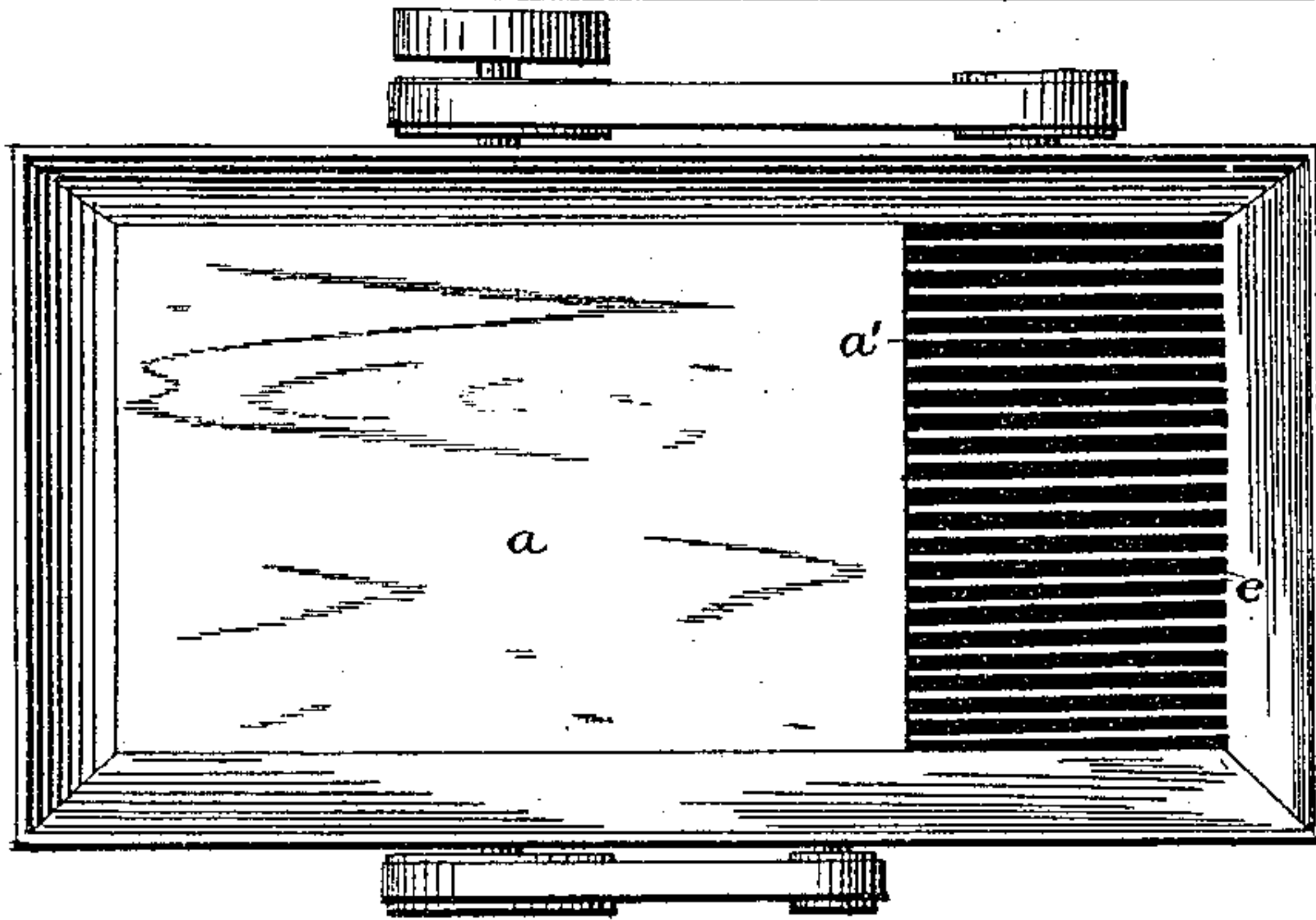
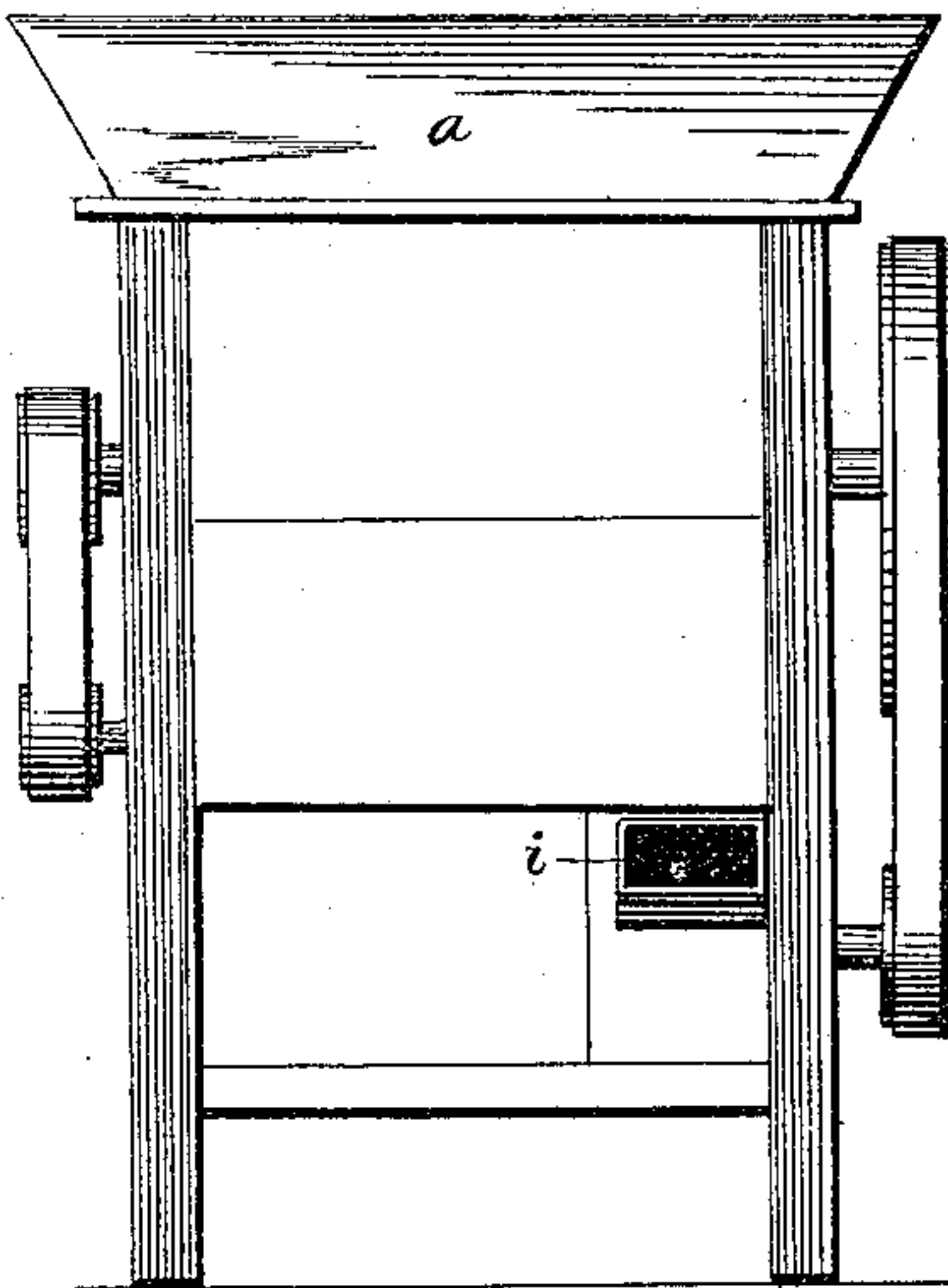


Fig. 3.



Attest:
L. B. Brock,
A. N. Burritt.

Inventor:
Geo. E. Luckey
by J. B. Brock,
att'y

UNITED STATES PATENT OFFICE.

GEORGE E. LUCKEY, OF PARIS, TENNESSEE.

PEA-THRASHER.

SPECIFICATION forming part of Letters Patent No. 336,012, dated February 9, 1886.

Application filed August 15, 1885. Serial No. 174,456. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. LUCKEY, a citizen of the United States, residing at Paris, in the county of Henry and State of Tennessee, have invented certain new and useful Improvements in Pea-Thrashers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to thrashing-machines, its particular application being for the purpose of thrashing peas of the variety grown in Tennessee and the adjacent country, mainly for stock-feeding purposes.

My improvement consists in the following construction of parts, a description of which will first be given, and the points of novelty then set forth in the claim.

Referring to the drawings, Figure 1 represents a central longitudinal section of my improved pea-thrasher. Fig. 2 is a top plan view of the same. Fig. 3 represents an end elevation of the machine.

The standards and frame of the thrasher may be of any ordinary construction. The frame is surmounted by a feed-hopper, *a*, which extends entirely over the top of the machine, and has an opening, *a'*, at one end, leading to the operative parts of the thrasher.

b is the thrashing-cylinder, of the usual construction, armed with thrashing-teeth and mounted in suitable bearings in the frame.

c is a stationary cylindrical casing surrounding the thrashing-cylinder, correspondingly armed with a series of teeth. This latter casing is cut away at one side, as shown at *d*, for the purpose of both receiving and discharging the material as it is fed to the machine. The slatted inclined chute *e* extends from one end of the hopper beneath its discharge-opening to a point horizontal with the axis of the thrashing-cylinder, and abuts closely against it, so as to divide the side opening in the stationary casing into two divisions, *d* *d'*, of nearly or quite equal area. The slats of the feed-chute extend between the teeth of the cyl-

inder. The upper opening, *d*, receives the material to be thrashed, and the same is discharged at *d'*, after being exposed to the action of the teeth or beaters.

The peas, after being thrashed, pass into a compartment or box, *f*, having a curved perforated bottom, the interstices of which are large enough to admit of the peas passing therethrough. A rotating conveyer, *g*, of the usual form, is placed in this box *f*, and serves to convey the pea-hulls out to one end of the box or trough, where they are discharged.

To provide for the separation of any foreign matter or minute particles of the hulls which may pass, together with the peas, through the perforated bottom, a fan, *h*, is arranged in the lower part of the frame, to discharge a current of air across the space beneath the perforated bottom and upwardly. This current of air causes such particles and matters of lighter specific gravity than the peas to be blown out at one end of the machine, as shown in Fig. 3.

The perforated bottom of box *f* may have a shaking or vibrating motion imparted to it, in order to provide a more complete separation, if desirable. It will also be noticed that the teeth or beaters on the stationary casing extend completely over its inner surface.

k shows the receptacle for the peas, located at the lower end of the inclined fan-chute *i*.

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

A pea-thrasher comprising a revolving thrashing-cylinder having rows of teeth, an inclined slatted feed-chute having its lower end contiguous to the thrashing-cylinder, and with its slats between the teeth of said cylinder, a stationary casing having interior teeth and extending nearly around the revolving cylinder, the perforated receiving-trough, the conveyer, the fan-casing, fan, and receiving-box, as described and shown.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE E. LUCKEY.

Witnesses:

GEO. S. RUSSELL,
W. T. LANDIS.