

(No Model.)

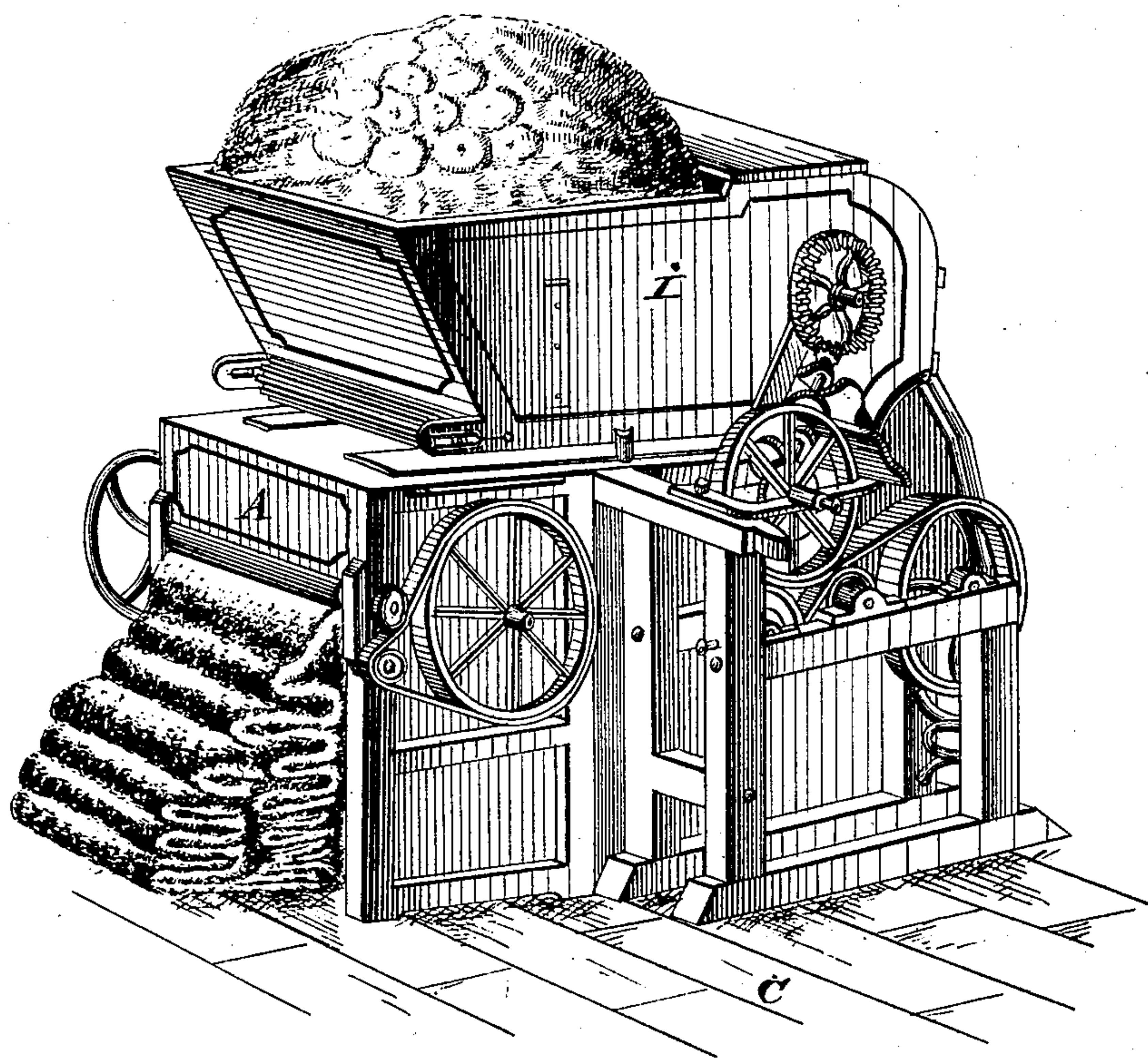
2 Sheets—Sheet 1.

W. W. THRASHER.  
Condenser for Cotton Gins.

No. 243,413.

Patented June 28, 1881.

*Fig. 1.*



WITNESSES

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INVENTOR,

By *his* Attorneys *Louis Bagger & Co.*

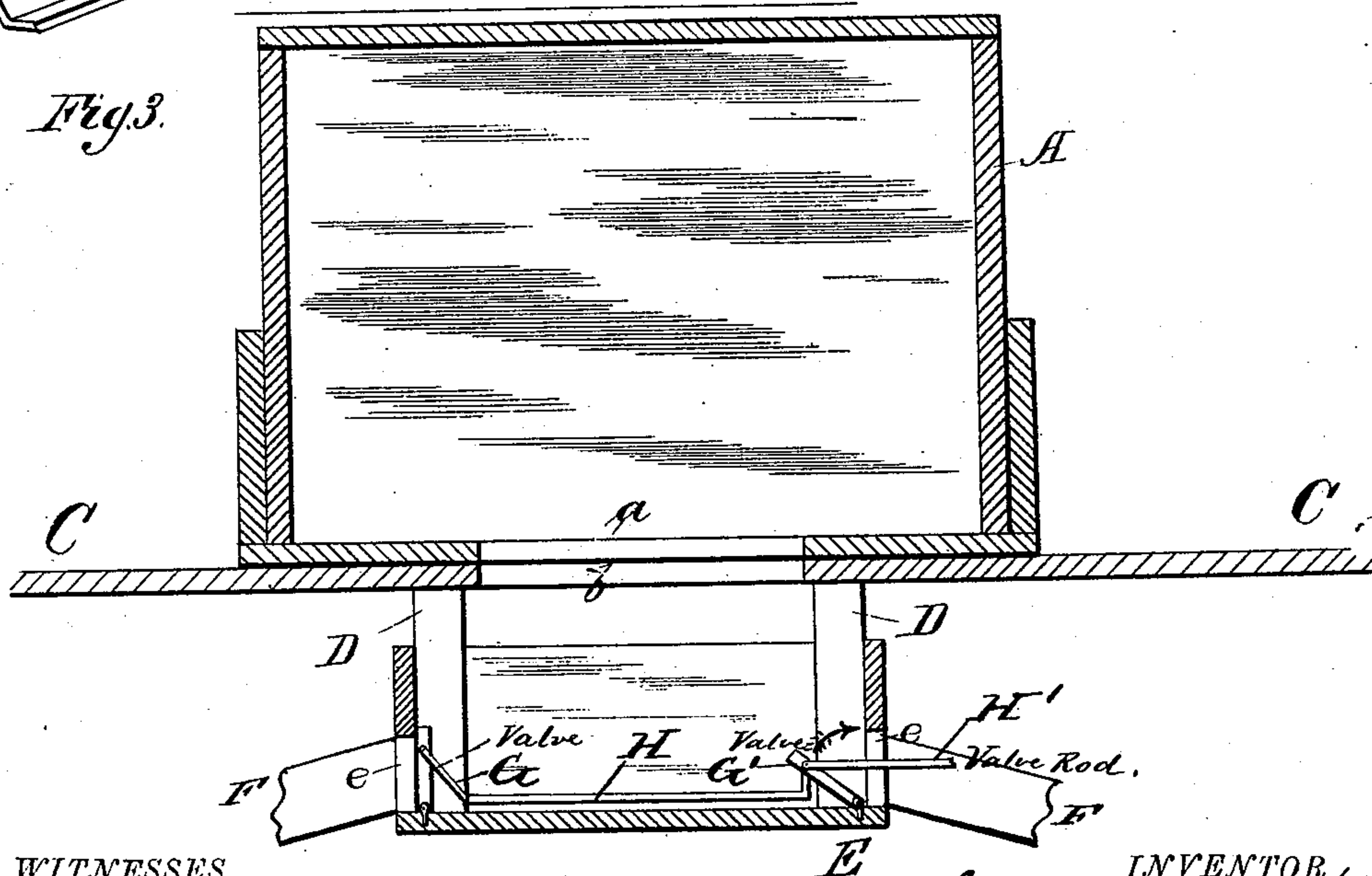
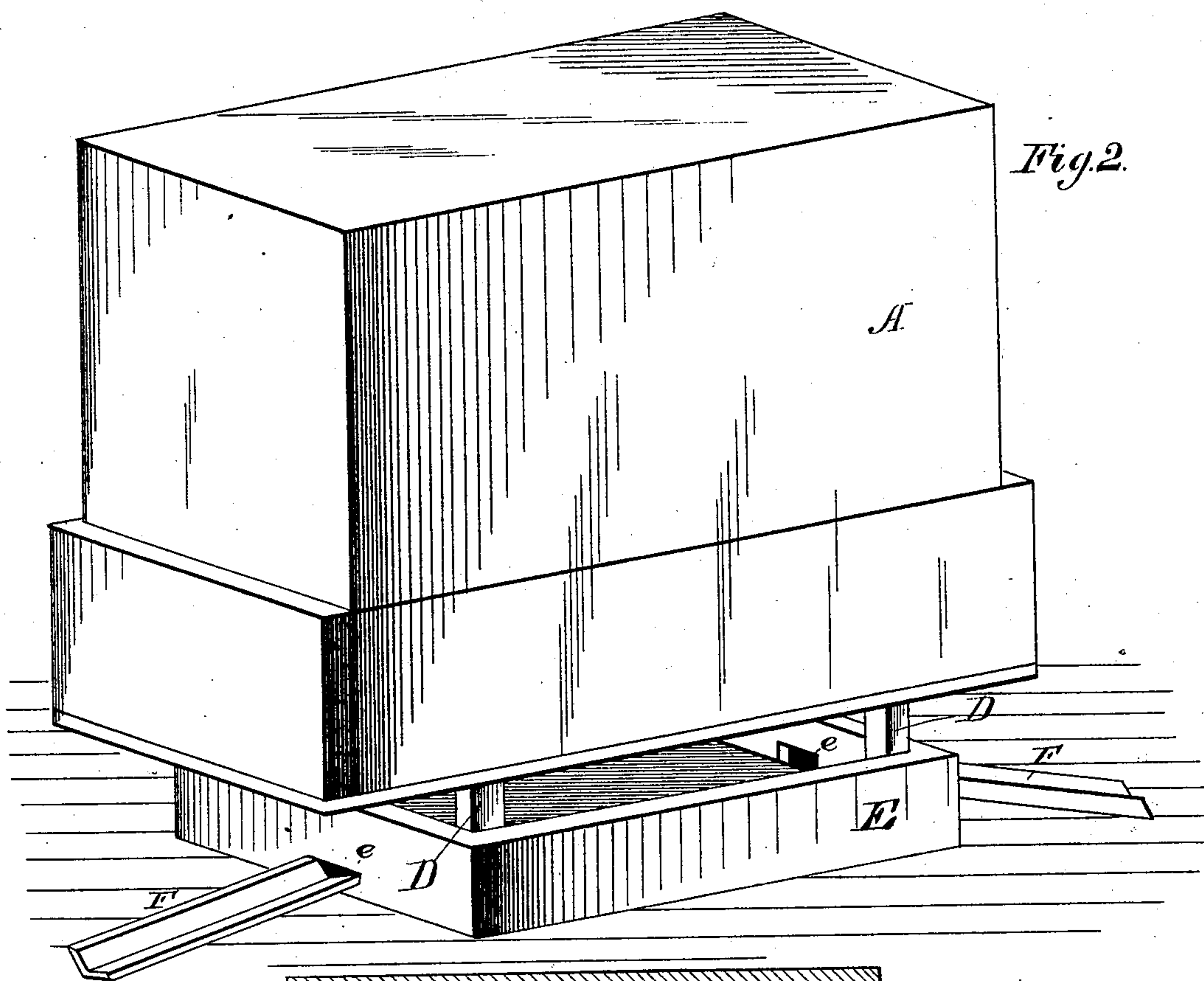
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2 Sheets—Sheet 2.

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No. 243,413.

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WITNESSES

*Ad. G. Dieterich*  
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INVENTOR,



# UNITED STATES PATENT OFFICE.

WILLIAM W. THRASHER, OF TROY, ALABAMA.

## CONDENSER FOR COTTON-GINS.

SPECIFICATION forming part of Letters Patent No. 243,413, dated June 28, 1881.

Application filed April 2, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM W. THRASHER, of Troy, in the county of Pike and State of Alabama, have invented certain new and useful Improvements in Condensers for Cotton-Gins; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of a cotton-gin and condenser of my improved construction. Fig. 2 is a perspective detail view of the condenser, showing the dirt-box with its troughs, and Fig. 3 is a longitudinal vertical section of the same.

Similar letters of reference indicate corresponding parts in all the figures.

My invention contemplates certain improvements in the construction of condensers for cotton-gins; and has for its object to prevent the dirt from being blown into the batting, by diverting the current of air generated by the rotary brush in such a manner that it will conduct the dirt and impurities down into a box located below the floor of the condenser, from which it is discharged through troughs or chutes extending in a slanting direction from the dirt-box to the outside of the gin-house, substantially as hereinafter more fully set forth.

In condensers as heretofore constructed the air put in motion by the rapid revolutions of the gin-brush creates a blast, which mixes the dust, dirt, and other foreign substances contained in the cotton in the general batting or roll of cotton as it is discharged from the condenser, on account of the openings in the ends of the condenser-box, (marked A in Fig. 1 of the drawings,) which permit the air to escape from the box. To overcome this objection I close the ends of the condenser and cut a hole in the floor underneath—say about one foot wide and two feet long—which coincides with an opening of the same size cut into the floor C, the two openings being marked, respectively, *a* and *b*. Below this opening I place a box of rectangular shape, E, and of about the same dimensions as the openings *a* *b*, which is suspended from the floor C directly underneath these openings by short timbers

D. This box should be from eight to twelve inches deep, and has an opening, *e*, in each of its end pieces, into which is inserted an open trough or chute, F, extending from the box to opposite sides of the gin-house, where it passes through openings in the walls to the outside of the building.

The gin I and condenser A may be of any desired construction or pattern, as my improvement is applicable to all the different classes of condensers. Where it is not expedient to cut a hole in the floor and place the dirt-trough E under this, substantially the same result is attained by raising the condenser A a short distance above the floor, and place the dirt-box E upon the floor underneath, so as to act as a support for the condenser, with which it communicates through the apertures *a* *b*. In that case the troughs or outlets F F should be covered to prevent the dust and dirt from flying about in the lint-room during its transit from the dirt-box to the outside of the building.

The mouths or openings *e* *e* are covered by hinged valves or doors G G', which are connected by a rod, H, and provided with a valve-rod, H', so constructed and arranged that when the valve G' is closed by pulling on the valve-rod H', the opposite valve, G, is opened to its full capacity, and vice versa. In this manner either one of the outlets or troughs F may be used, according to the direction of the wind and other circumstances.

Having thus described my improvement, I claim and desire to secure by Letters Patent of the United States—

In a condenser for cotton-gins, the condenser-box A, whose bottom has a rectangular aperture, *a*, in combination with the dirt-box E, placed underneath said aperture, and provided with the inclined troughs or chutes F F, leading to the outside of the gin-house, and having hinged valves G G', connected by the rod H, placed in the bottom of box E, and adapted to operate as described, substantially as and for the purpose herein shown and specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILLIAM W. THRASHER.

Witnesses:

FRANK BALTZELL,  
OGLETHORPE WORTHY.