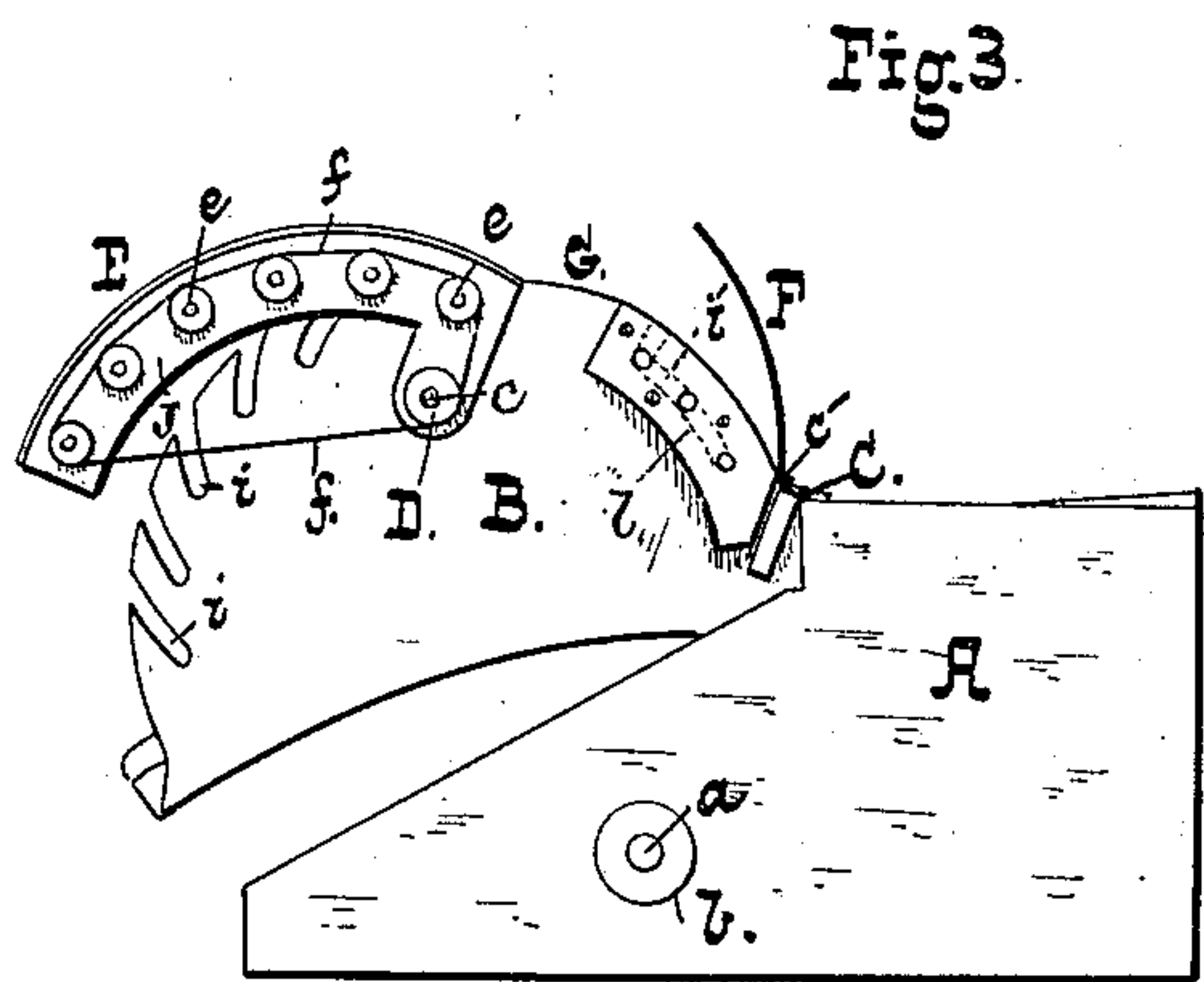
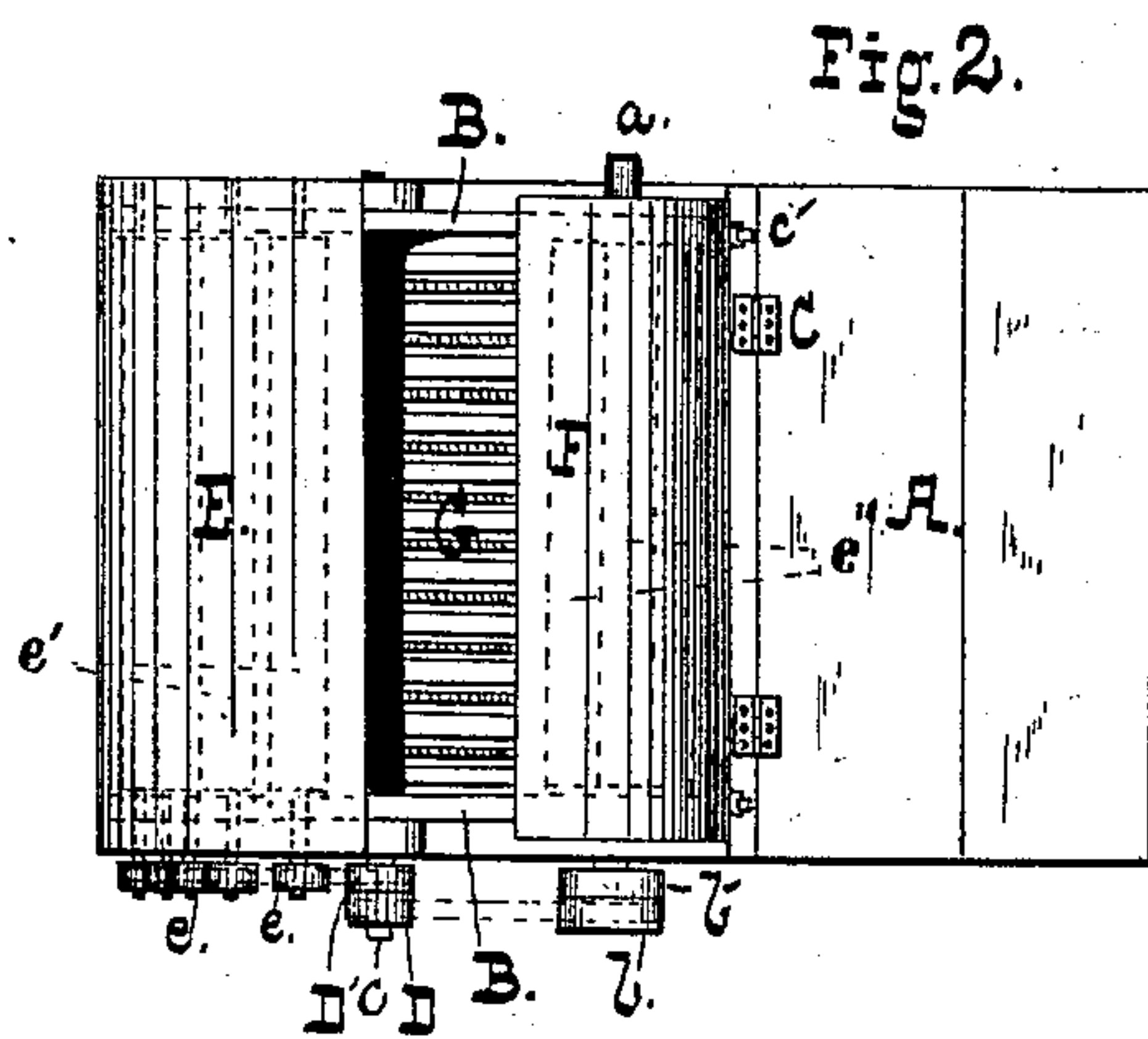
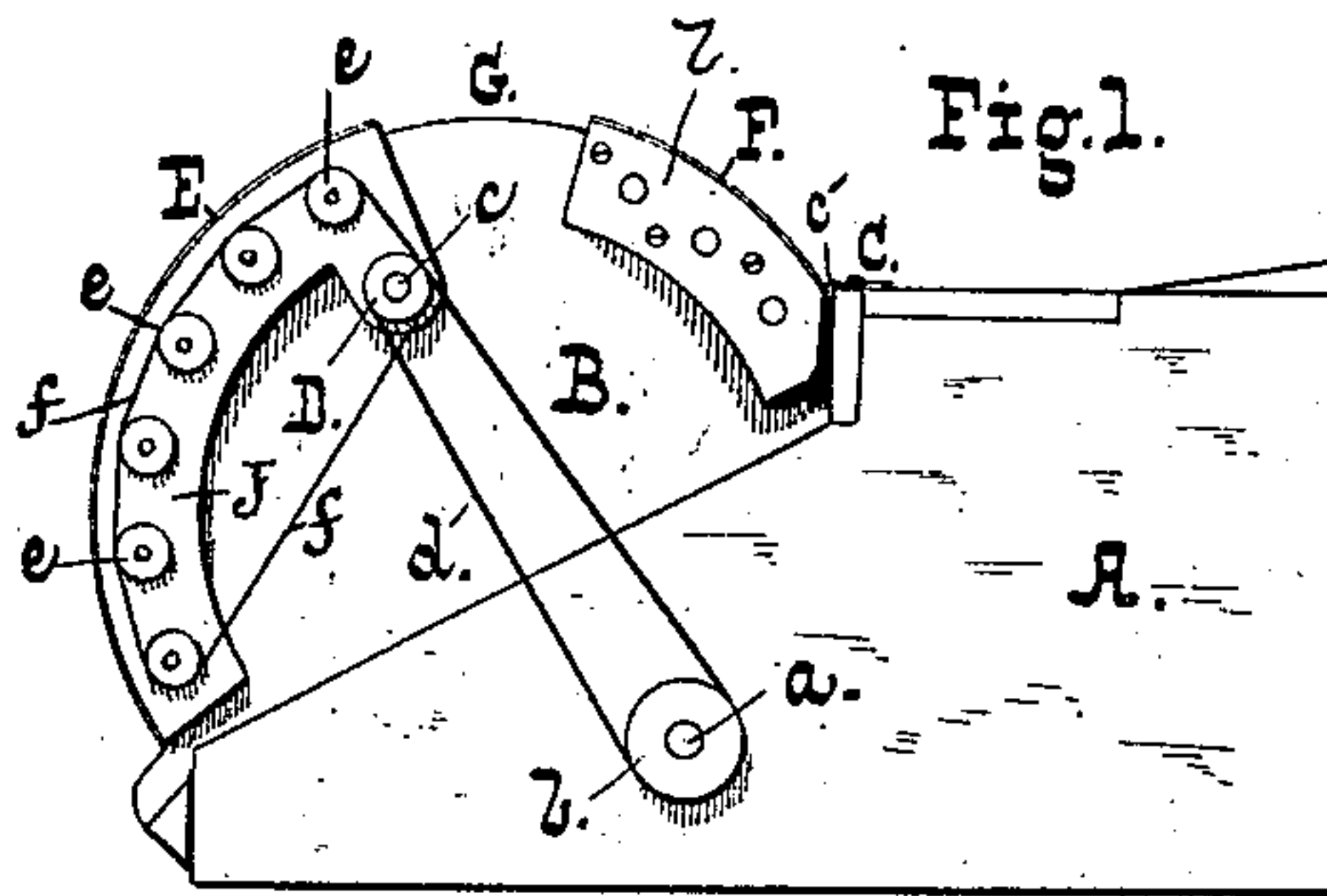


(No Model.)

T. BOATWRIGHT.  
COTTON GIN.

No. 256,195.

Patented Apr. 11, 1882.



WITNESSES.

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# UNITED STATES PATENT OFFICE.

THOMAS BOATWRIGHT, OF BRYAN, TEXAS.

## COTTON-GIN.

SPECIFICATION forming part of Letters Patent No. 256,195, dated April 11, 1882.

Application filed February 20, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS BOATWRIGHT, of Bryan, Brazos county, State of Texas, have invented certain new and useful Improvements in Cotton-Gins; and I hereby declare the same to be fully, clearly, and exactly described as follows, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of the gin, and Fig. 2 a top plan of the same. Fig. 3 is a side elevation, showing the means for raising the swinging front and rollers.

My present invention has reference to machines for ginning cotton; and it has for its object to so attach the front and rollers to the device that the rollers may be cleaned and freed from trash, burrs, and seed, when necessary, without stopping the gin. This is an important desideratum, and it has not, as far as I am aware, been heretofore attained.

Referring now to the accompanying drawings, in which a gin embodying my present improvement is illustrated, A is the casing containing the gin-brush, and in it is mounted the saw-shaft *a*.

B B are the side heads of the gin, hinged at C to the casing A, so as to be susceptible of being raised, as shown in Fig. 3. On one or both of the heads is a stud, *c*, to which is pivoted the swinging front E, of which the lateral segment-like pieces J extend on the sides of the heads B.

In the segments J are journaled the rollers *e'*, (shown in dotted lines,) similar rollers, *e''*, being also journaled in the heads B on the opposite side of the feed-opening G. The journals of the rear rollers, *e''*, are, more properly speaking, mounted in side pieces, *l*, which are screwed to the heads B, the heads themselves being slotted at *i'*, as shown in dotted lines, Fig. 3, to receive the shafts of the rollers. The object of this construction is to facilitate the removal of the rear rollers when necessary. The side pieces, *l*, being detached, the rollers may be slid out of the slots *i'*, as will readily be understood. The cover F of the rear rollers is hinged at *e'* to the casing.

On the shafts of the front rollers, *e'*, are mounted pulleys *e*, over which a belt, *f*, is led

from a pulley, D', on the stud *c*. A second pulley, D, on the same stud, and attached to the pulley D', is driven by a belt, *d*, from a double pulley, *b b'*, on the saw-shaft *a*.

The segments J and cover E, constituting the front, are pivoted, as before stated, on the studs *c*, so as to be lifted independently of the swinging heads B, in which latter is formed a series of slots, *i i'*, curved about the stud *c* as a center to receive the shafts of the rollers.

In operation the shaft *a*, which carries the saws, is caused to turn, communicating motion from the pulleys *b*, D, D', and *e*, through the medium of the belts *d f*, to the rollers *e'*. The machine operates, so far as the mutual coaction of the rollers, saws, fingers, and brush is concerned, in the usual way. When it is necessary to get at the rollers *e'* to remove any burrs or seeds which may collect, it is only necessary to swing the front E up, as shown, independently of the heads B.

My improvement is applicable, at a trifling cost, to gins already in use, and its use results in a great saving of time and labor.

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

1. In a cotton-gin, a swinging front carrying a series of rollers, as set forth.

2. In combination with the gin-casing having lateral heads, the swinging front pivoted thereto and having a series of rollers, *e'*, as set forth.

3. In combination with the gin-casing having swinging front and rollers *e'*, pivoted therein, the driving-belts *d* and *f* and pulleys, as set forth.

4. In combination with the heads B, having slots *i'*, the rear rollers, *e''*, and side pieces, *l*, in which the rollers are journaled, as set forth.

5. In combination with the heads B, having studs *c* and the slots *i*, curved in the arc of a circle described about *c*, the swinging front and rollers *e'*, as set forth.

THOMAS BOATWRIGHT.

Witnesses:

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