

(No Model.)

D. D. CLARK.
COTTON GIN.

No. 244,549.

Patented July 19, 1881.

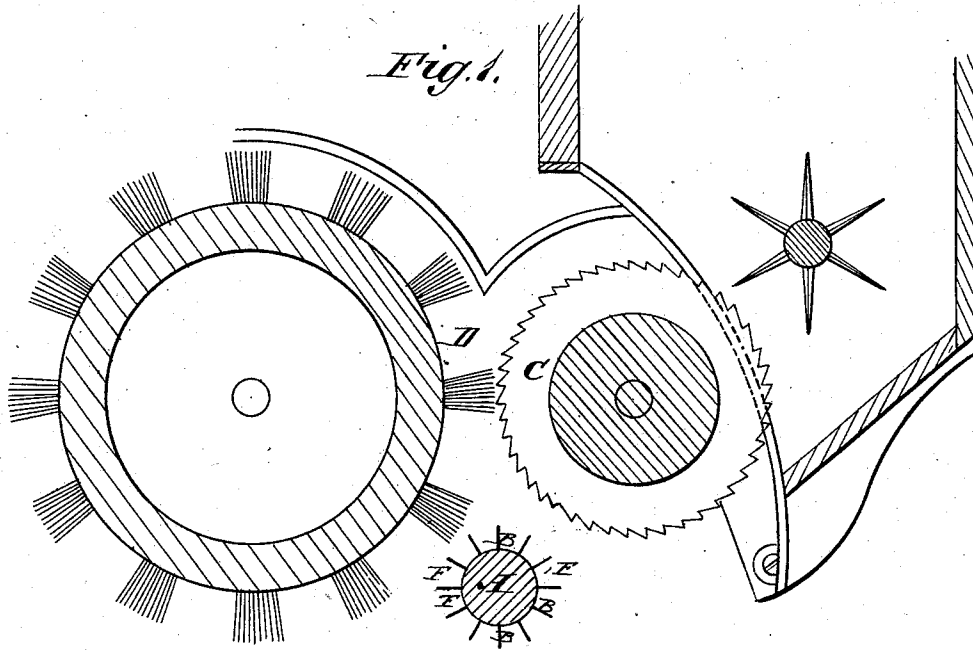


Fig. 2.

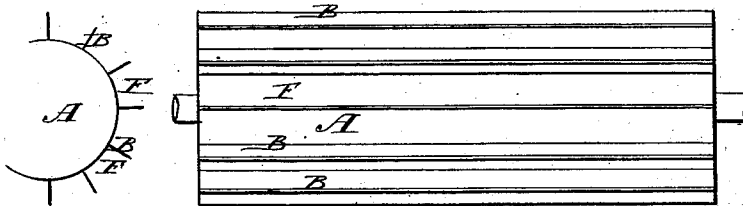


Fig. 3.

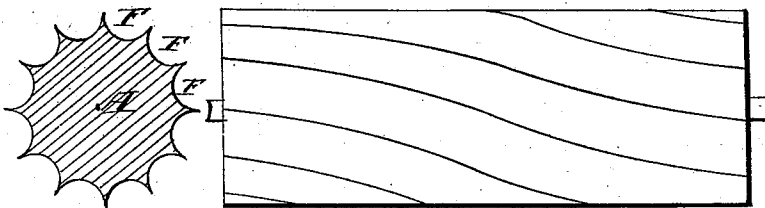


Fig. 6.

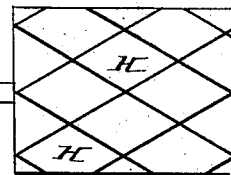


Fig. 4.

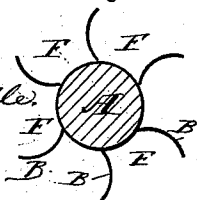
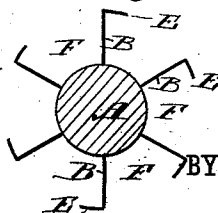


Fig. 5.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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COTTON-GIN.

SPECIFICATION forming part of Letters Patent No. 244,549, dated July 19, 1881.

Application filed December 31, 1880. (No model.)

To all whom it may concern:

Be it known that I, DANIEL DEARBORN CLARK, of Mystic, in the county of New London and State of Connecticut, have invented a new and useful Improvement in Cotton-

Gins, of which the following is a specification. The object of my invention is to provide a new device for removing the notes that fall down from the saws of a cotton-gin when the lint is being brushed off of these saws.

The invention consists in providing a cotton-gin with a mote-receiver, consisting of a longitudinally-flanged cylinder that straightens the cotton as it leaves the saw, knocks the sand and trash out of it, and deposits the notes in a receptacle beneath it, as hereinafter described.

In the accompanying drawings, Figure 1 is a cross-sectional elevation of a saw and revolving brush of a cotton-gin provided with my improved revolving moter. Fig. 2 shows an end and longitudinal elevation of my improved moter. Fig. 3 is an end and longitudinal elevation of a modification of the same. Figs. 4 and 5 are end elevations of modifications of the same. Fig. 6 is a side elevation of a modification.

Similar letters of reference indicate corresponding parts.

A cylinder A, having a series of plates, B B, fixed longitudinally and radially in its outer surface, is mounted in the frame of a cotton-gin or in some other suitable supports below the point of contact of the circular saws C and the revolving brush D. This cylinder is provided with a belt-pulley, so that it will revolve with all the other parts of the gin, or it may be revolved simply by the pressure of the air by the brush.

The cylinder A may be fluted, as shown in Fig. 3, or the plates B may be slightly curved like a scoop, as shown in Fig. 4, or they may be provided with a longitudinal flange, E, at the outer edge, as is shown in Fig. 5.

The flutes or grooves F of the cylinder A may be longitudinal, as shown in Fig. 2, or may be spiral, as shown in Fig. 3, as may be desired. The cylinder may also be constructed with a series of recesses, H, in its cylindrical surface, as shown in Fig. 6.

The operation is very simple and as follows: As the brush D brushes the lint from the teeth of the saws C the notes fall down, and as the cylinder A is directly below the point of contact of the brush and saw the notes will drop into the grooves F F of the cylinder. As the cylinder A rotates continually, the notes will be carried around and will drop from the groove F in the cylinder into some suitable receptacle. The notes will thus be removed as rapidly as they drop from the lint in a very simple and effective manner.

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

In a cotton-gin, the combination, with the saws C and brush D, of a longitudinally-flanged roll, A, having the channels F, arranged to straighten the cotton, knock out the sand and notes, and deliver said refuse to a receptacle beneath, as described.

DANIEL DEARBORN CLARK.

Witnesses:

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