

N. W. GADDY.
Cotton-Gins.

No. 144,668.

Patented Nov. 18, 1873.

Fig. 1

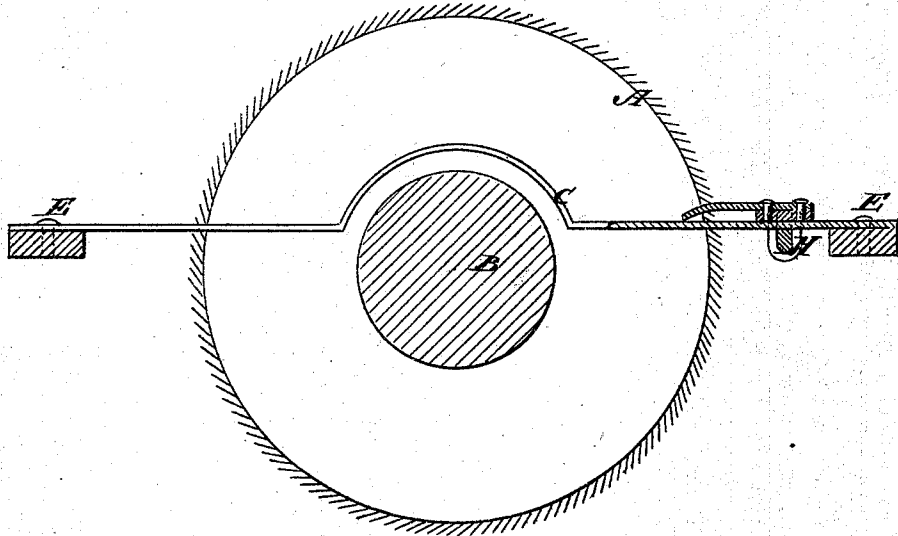
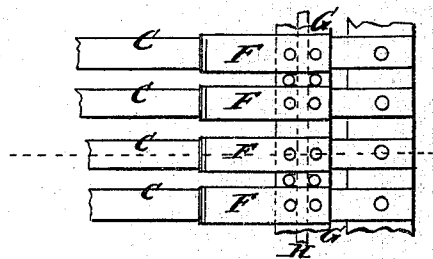


Fig. 2



Witnesses.

E. Wolff
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UNITED STATES PATENT OFFICE.

NICHOLAS W. GADDY, OF NICHOLS, SOUTH CAROLINA.

IMPROVEMENT IN COTTON-GINS.

Specification forming part of Letters Patent No. **144,668**, dated November 18, 1873; application filed August 16, 1873.

To all whom it may concern:

Be it known that I, NICHOLAS W. GADDY, of Nichols, in the county of Marion and State of South Carolina, have invented a new and useful Improvement in Cotton-Gins, of which the following is a specification:

My invention is an improvement in the class of gins having auxiliary bars or fingers applied to the ordinary bars or fingers between which the saws revolve; and the invention consists in the construction and arrangement of parts, as hereinafter described, whereby the said auxiliaries are adapted to be readily attached and detached, and to be shifted or moved toward the saws from time to time, as they wear smooth at the corners, thus exposing new and sharp edges.

Figure 1 is a sectional elevation of a cotton-gin with my improvement, and Fig. 2 is a plan view of some of the ordinary bars and some of the auxiliary bars which I attach.

Similar letters of reference indicate corresponding parts.

A represents the gin-saws; B, the saw-arbor; C, the ordinary bars or fingers used between the saws; and E, the supports for the said bars. As the bars or fingers C have to extend all the way between the saws, and a sufficient amount beyond at each side for their support, they are, of course, much more expensive than fingers only long enough for use in connection

with the saw for gearing purposes would be, and besides they cannot be adjusted to the saws to change them to new places as they wear; consequently I propose to apply short secondary or auxiliary fingers or bars F for doing the work, and attach them so that they can be shifted along from time to time as they wear, and so that they are supported by the ordinary bars C.

In this example I have represented said fingers riveted to a bar, G, extending along across the top of the ordinary bars in front of the saws, and fastened by yokes and keys H, so that the bar can be shifted readily, as may be required.

The auxiliary bars may lie flat upon the principal ones, if preferred.

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

The combination of the auxiliary bars, fingers F, and their fastening devices, with the ordinary bars C of the gin, as shown and described, whereby said auxiliary fingers are adapted to be adjusted and detached, as set forth.

NICHOLAS WARE GADDY.

Witnesses:

R. L. LANE,

R. R. HAYS.