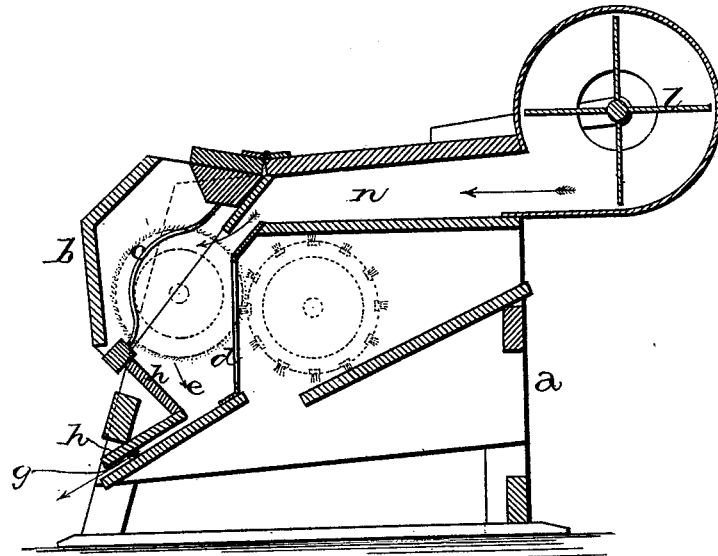


J. W. BURT, Jr.  
Cotton-Gins.

No. 202,927.

Patented April 30, 1878.



Witnesses:

*J. W. Garner*  
*W. D. Garner*

Inventor:

*Jno. W. Burt, Jr.*  
per  
*J. A. Lehmann,*  
att'y

# UNITED STATES PATENT OFFICE.

JOHN W. BURT, JR., OF GARNER'S STATION, MISSISSIPPI.

## IMPROVEMENT IN COTTON-GINS.

Specification forming part of Letters Patent No. **202,927**, dated April 30, 1878; application filed March 14, 1878.

*To all whom it may concern:*

Be it known that I, JOHN W. BURT, Jr., of Garner's Station, in the county of Yalabusha and State of Mississippi, have invented certain new and useful Improvements in Cotton-Gins; and I do hereby 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 pertains to make and use it, reference being had to the accompanying drawing, which forms part of this specification.

My invention relates to an improvement in cotton-gins; and it consists in the arrangement of a blower upon the rear end of the gin, and an air-passage leading therefrom, for the purpose of sending a current of air down over the top of the saws and between the two sets of the ribs, so as to blow away all the dirt, dust, and impurities that may have passed through the first set of ribs, all of which will be more fully described hereinafter.

The accompanying drawing represents my invention.

*a* represents a gin-frame, of any suitable shape, size, or construction, and which is provided with the usual hinged roll-box *b* and ribs *c*, as shown. The saw-shaft passes through the front end of the frame in the usual manner, and the edges of the saws pass through the first set of ribs, *c*, and a second set, *d*, placed a suitable distance behind them. This second set of ribs *d* may be made of any suitable material, as there is no pressure upon them; and they serve for the purpose of preventing the dirt, sand, and grit that may be mixed with the cotton from passing through into the lint-room. Very frequently particles of dirt are drawn through the first set of ribs and carried back into the lint-room, requiring that the cotton should afterward be cleaned, so as to free it from this dirt. The second set of ribs *d* arrests these particles of sand and dirt, and cause them to drop down to the bottom of the chamber *e*, of which these ribs form the rear side, and pass out through the inclined

chute *g* at the bottom thereof. This chamber *e* is formed by strips *h*, which are placed inside of the frame in the relation to each other shown, and make as tight a chamber as it is possible to do.

Placed upon the rear end of the frame *a* is a blower or fan, *l*, of any desired size or length, and which is driven by a belt passing from the operating-shaft. Leading from this blower, along under the top of this frame, is an air-flue, *n*, through which the air is conducted to the front end of the frame, so as to be discharged just over the top of the saw-shaft in the chamber *e*. This blast of air catches all the dirt and floating particles which may be carried through by the saws from the roll-box, and blows them out through the chute *g* at the bottom of the chamber *e*. This blast of air does not affect the lint held by the saw-teeth as they are carrying it through the two sets of ribs, but does serve to blow away the dust and impurities which are brought through into the chamber *e*, and instantly drives them away.

The result of this method of treating the cotton is that it is completely cleaned in the operation of ginning, and does not require any further treatment for this purpose alone.

Having thus described my invention, I claim—

1. The dirt-chamber *e*, located between the two sets of ribs *c* *d*, and having a discharge-chute, *g*, leading from its bottom, substantially as described.

2. In a cotton-gin, the combination of a fan or blower, *l*, an air-passage, *n*, and a dust-chamber, whereby the dust is blown from the ginned cotton after it has passed through the ribs *c*, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand.

JOHN W. BURT, JR.

Witnesses:

G. P. RICE,  
J. L. COMBS.