

E. H. TALIAFERRO & S. KLINE, Sr.

COTTON-CLEANER.

No. 187,782.

Patented Feb. 27, 1877.

Fig. 1.

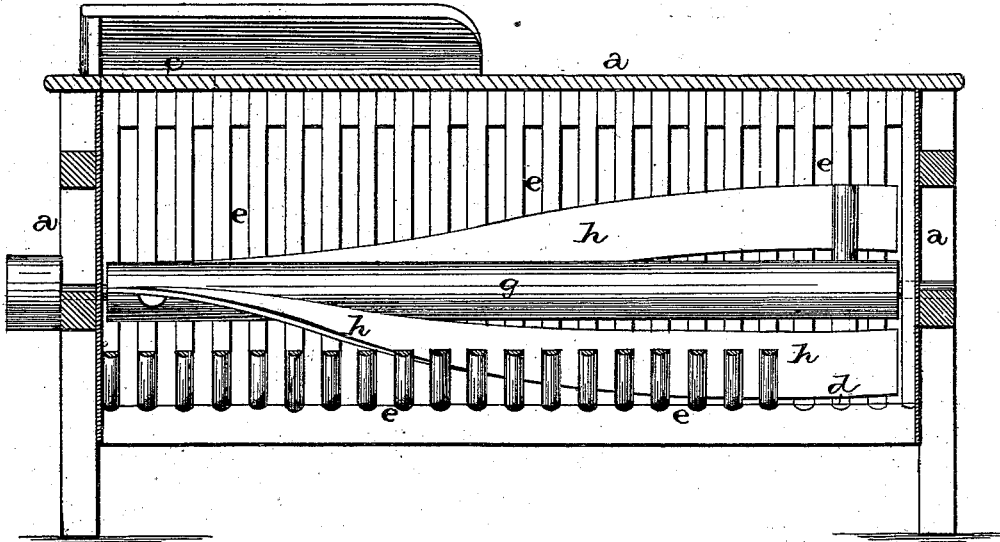
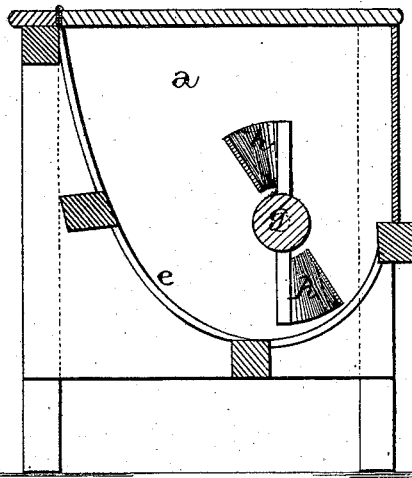


Fig. 2.



WITNESSES.

*J. W. Garner.*  
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INVENTORS.

*E. H. Taliaferro*  
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per  
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# UNITED STATES PATENT OFFICE.

EDWIN H. TALIAFERRO AND SAMUEL KLINE, SR., OF COLUMBUS, MISS.

## IMPROVEMENT IN COTTON-CLEANERS.

Specification forming part of Letters Patent No. **187,782**, dated February 27, 1877; application filed September 11, 1876.

*To all whom it may concern:*

Be it known that we, EDWIN H. TALIAFERRO and SAMUEL KLINE, Sr., of Columbus, in the county of Lowndes and State of Mississippi, have invented certain new and useful Improvements in Cotton-Cleaners; and we 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 drawings, which form part of this specification.

Our invention relates to cotton-cleaners; and it consists in a rotating shaft provided with spiral wings or flanges extending from end to end, as will be hereinafter more fully set forth.

In the annexed drawing, which fully illustrates our invention, *a* represents a suitable box-like frame, provided with an opening, *c*, on top at one end, where the cotton is fed in, and another one, *d*, in its bottom at the other end, where the cotton is forced out into any suitable vessel placed to receive it. The bottom and one side of the box are formed of the curved ribs *e*, which have enough of a space left between them to allow dirt, seed, &c., to fall freely through. Extending horizontally through this box or frame is the revolving shaft *g*, secured to which are the spiral blades *h*, which do the cleaning.

The shaft and its blades having been set in

motion, the cotton, in its rough, dirty condition, is fed in through the opening *c* upon the cleaner, where it is shaken, beaten, and cleaned of its trash, dirt, &c., and then forced down through the opening *d*.

The cleaner, having continuous blades that extend spirally around the shaft, generates a great amount of wind, and this blows away all loose dirt and dust, in a manner that can be accomplished in no other way, at the same time that it frees the cotton from twists and knots.

The frame here shown is old, and is introduced merely to show the operation of our cleaner.

Having thus described our invention, we claim—

In a cotton-cleaner, the combination of the shaft *g*, having the radial wings *h* extending its whole length, for both beating the cotton, generating a current of air, and forcing the cotton along, with the inclosing-case, substantially as described, that allows the dust and dirt to escape, substantially as shown.

In testimony that we claim the foregoing we have hereunto set our hands this 1st day of September, 1876.

EDWIN H. TALIAFERRO.  
SAMUEL KLINE, Sr.

Witnesses:

J. H. BISHOP,  
D. S. MITCHELL.