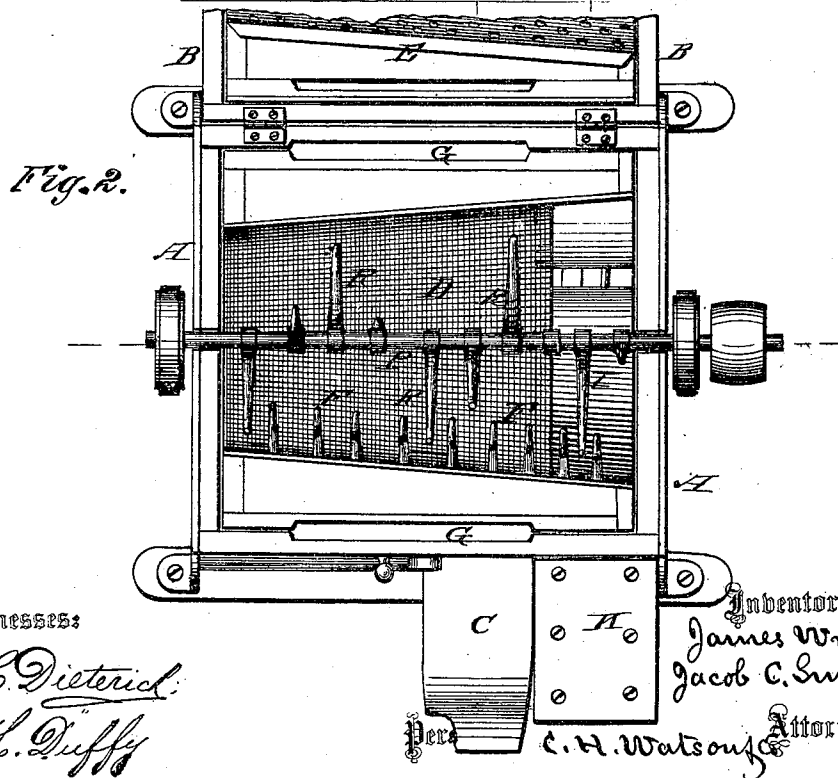
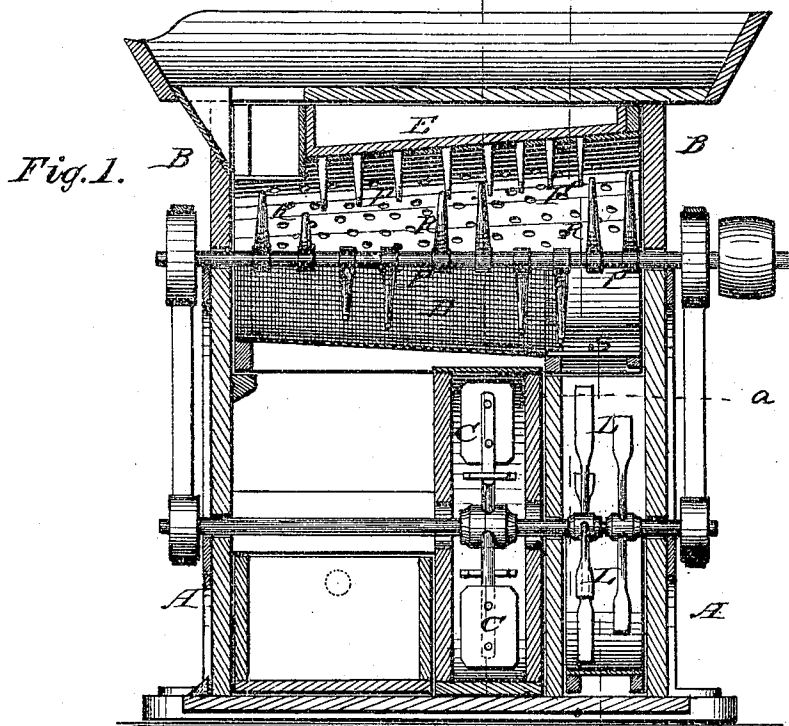


J. WRIGHT & J. C. SMITH, Jr.
COTTON-PICKER.

No. 179,752.

Patented July 11, 1876.



Witnesses:

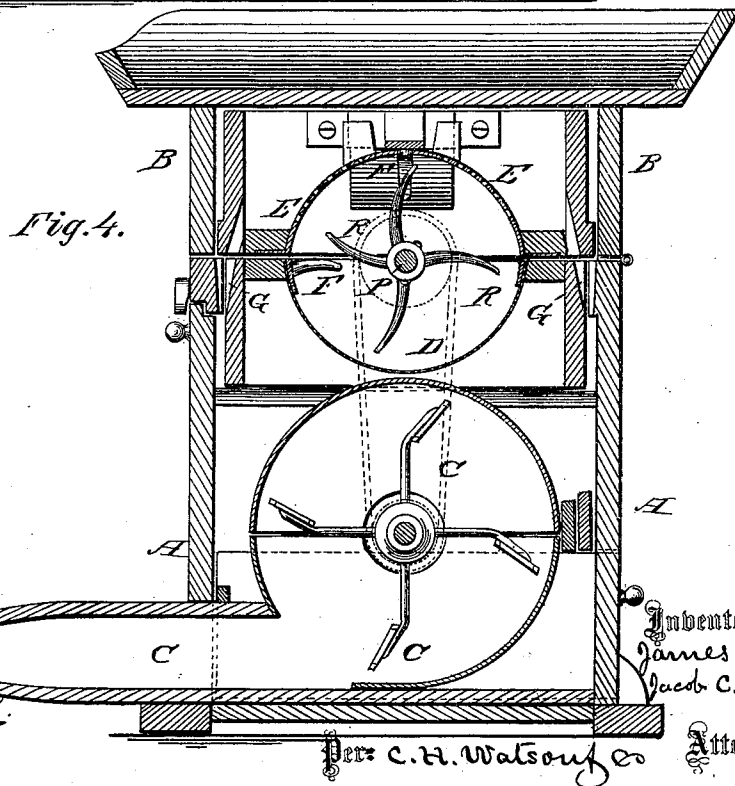
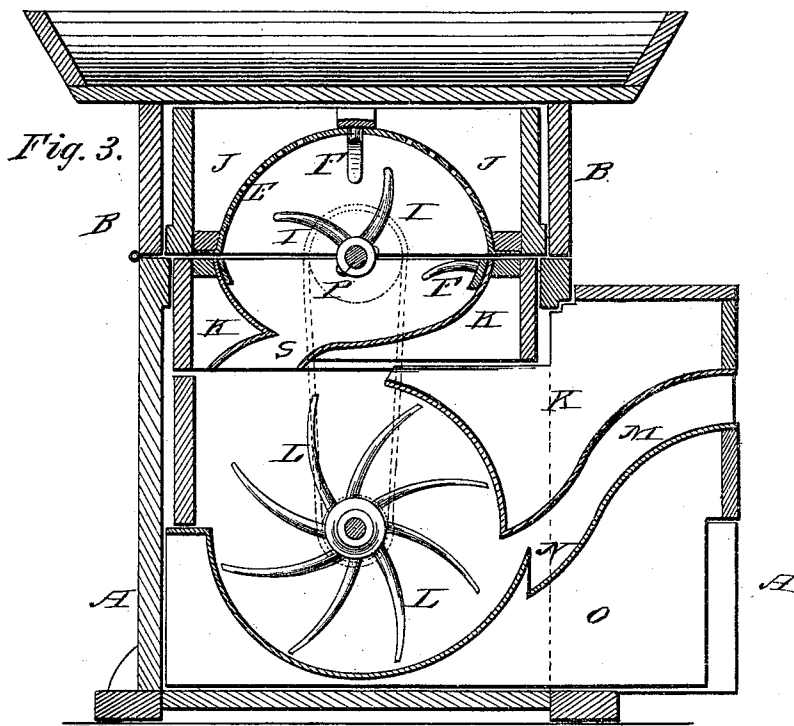
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at once

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UNITED STATES PATENT OFFICE.

JAMES WRIGHT AND JACOB C. SMITH, JR., OF JACKSON, TENNESSEE.

IMPROVEMENT IN COTTON-PICKERS.

Specification forming part of Letters Patent No. **179,752**, dated July 11, 1876; application filed May 1, 1876.

To all whom it may concern:

Be it known that we, JAMES WRIGHT and JACOB C. SMITH, JR., of Jackson, in the county of Madison and State of Tennessee, have invented certain new and useful Improvements in Cotton-Cleaner; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Our invention consists in certain improvements upon a cotton-cleaner heretofore patented to us, as will be hereinafter more fully set forth.

In the annexed drawings, A represents the frame-work of our machine. This frame is provided with a hinged top, B, whereby one person may open and close the same at will. In this top is the feed-opening, through which the cotton is admitted into the conical receiver formed of the bottom wire screen or grating D, and top perforated sheet-iron or wire screen E. Within the receiver D E is the revolving shaft P, with curved beaters R R attached thereto, said beaters being graduated both in length and distances apart, as shown. F F are the stationary teeth within said receiver. C is the dust-fan and pipe. G G are dust-passages from the top connecting with the fan.

The delivery end of the machine contains at the top rotating beaters I, inclosed in a sheet-iron case, of which J is the upper half and K the lower half, the latter also forming the upper half of the case for the delivery-beaters L in the bottom of the machine at the discharge end. In the case K is an opening, S, through which the cotton passes from the beaters I to the beaters L at the bottom. M is an elevated and curved discharge-pipe with an opening, N, near the bottom, forming a separator, and under the same is a receiver, O. The operation of this machine is substantially the same as described in the former patent

above referred to, with the following improvements, in addition to the hinged top, as already mentioned, viz: The dust-passages G, over and around the top, by means of which the dust that is driven up by the action of the beaters and cotton is forced through the openings in top, and is drawn off through slots in the frame that connects with the dust-fan, the partition *a* dividing the delivery-beaters L from the dust-fan, in connection with the case K, having opening S, by which arrangement the cotton is cleaned in the upper story or apartment, and then driven down to the lower, free of dust, where it comes in contact with the delivery-beaters and is driven up the pipe M and discharged. The discharge-pipe M has a double curve, and is elevated, as shown, which prevents the escape of rock or any heavy substance with the cotton, such substances, together with gravel, sand, &c., passing through the separating-opening N. The sand, &c., passing through the screen E is caught in the drum O, thus preventing the choking of the dust-pipe.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. In combination with the fan and delivery beaters, the partition *a*, and the case K, having opening S, as and for the purposes herein set forth.

2. The top B and frame A, hinged as described, in combination with the fan and delivery-beaters, partition *a*, case K, having opening S, substantially as and for the purpose set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

JAMES WRIGHT.

JACOB C. SMITH, JR.

Witnesses as to JAMES WRIGHT:

H. A. TUCKER,

J. B. HAZELWOOD.

Witnesses as to JACOB C. SMITH, JR.:

B. R. PERSON,

E. A. CLARK.