

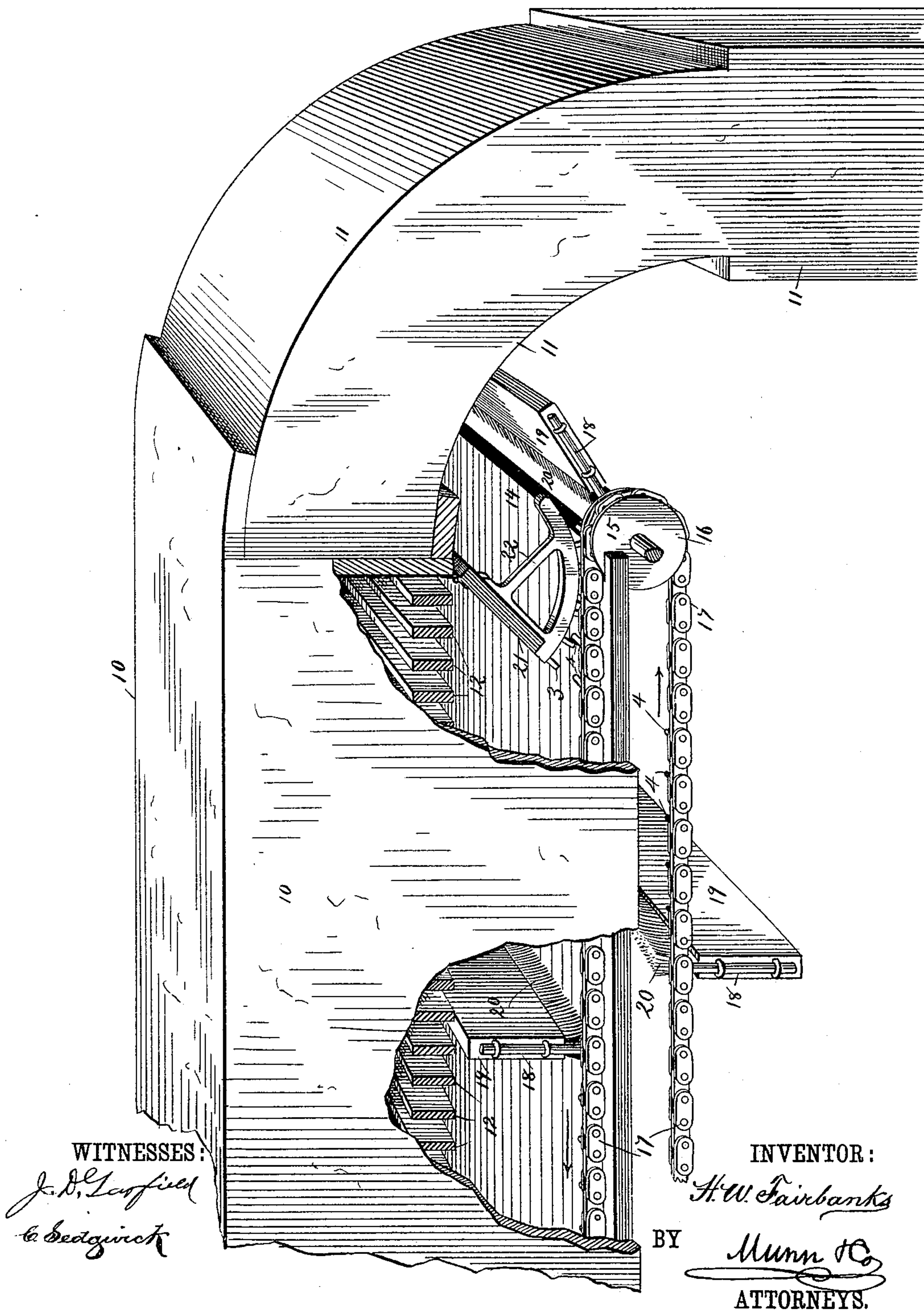
(No Model.)

H. W. FAIRBANKS.

DUST TRUNK CLEANER FOR COTTON OPENERS.

No. 365,175.

Patented June 21, 1887.



WITNESSES:

*J. D. Loring*  
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BY

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# UNITED STATES PATENT OFFICE.

HORATIO W. FAIRBANKS, OF ATLANTA, GEORGIA.

## DUST-TRUNK CLEANER FOR COTTON-OPENERS.

SPECIFICATION forming part of Letters Patent No. 365,175, dated June 21, 1887.

Application filed August 28, 1886. Serial No. 212,053. (No model.)

*To all whom it may concern:*

Be it known that I, HORATIO WOOD FAIRBANKS, of Atlanta, in the county of Fulton and State of Georgia, have invented a new and Improved Dust-Trunk Cleaner for Cotton Openers, of which the following is a full, clear, and exact description.

My invention relates to the construction of a novel apparatus designed for use in connection with the trunks through which cotton is drawn prior to being delivered to an "opener," the object of the invention being to automatically relieve the trunks of the sand, dirt, dust, stones, and all other debris that may fall upon the bottom thereof, and this object I accomplish by the novel construction to be hereinafter described, and specifically pointed out in the claims.

Reference is to be had to the accompanying drawing, forming a part of this specification, which is a perspective view of one end of the trunk, parts of the trunk being broken away in order to disclose the interior construction.

In the drawing, 10 represents the trunk, which is arranged in connection with a flue, 11, that leads to an opener of any of the well-known types. The trunk 10 is divided by a series of cross-strips, 12, the upper edges of which constitute a grid, over which the cotton is driven or drawn by a current of air. An inspection of the drawing will show that the flue 11 communicates only with that portion of the trunk which is above the cross-bars 12. As the cotton passes over the grid formed by the strips 12, sand, dirt, small stones, dust, and all other heavy or dangerous substances which may accidentally have become mixed with the cotton will drop through the spaces between the strips and onto the bottom 14 of the trunk 10.

At each end of the trunk there is mounted a shaft, 15, which carries sprocket-wheels 16, said wheels serving as the support for endless chains 17. These chains 17 carry arms 18, which arms serve as the supports for the backs 19 of brushes 20. Each end of the trunk is

closed by a door, 21, and these doors carry segmental racks 22, that are provided with teeth 3, which teeth are engaged by pins 4, that are carried by the chains 17 just in advance of the brushes 20, the construction being such that as the chains and brushes advance in the direction of the arrows shown in connection therewith, the pins 4 will engage with the teeth 3, and the doors will be moved so as to permit the brushes to enter or leave the trunk; but after the brushes have entered or passed out of the trunk the doors will close. The door at that end of the trunk opposite to the one shown in the drawing swings outward instead of inward.

In operation, the shaft 15 is driven in any proper way, so as to advance the chains in the direction of the arrows shown in connection therewith, and as the chains advance the brushes 20 will be carried within the trunk, and being adjusted so as to bear slightly upon the bottom of the trunk, they will act to clean the trunk of any debris which may have fallen onto the bottom between the openings of the slats 12.

In practice it might be desirable to substitute rubber-faced strips for the brushes 20, or simple strips might be used for the clearers.

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

1. The combination, with a trunk provided with cross-slats 12, of doors 21, carrying segmental toothed racks 22, and endless chains provided with teeth 4, and carrying brushes 20, substantially as described.

2. The combination, with a trunk provided with cross-slats 12, of doors 21, carrying toothed segmental racks, endless chains carrying pins 4, arms 18, carried by the chains, and brushes 20, carried by the arms, substantially as described.

HORATIO W. FAIRBANKS.

Witnesses:

EDWARD WHITE, Sr.,  
JOHN J. WOODSIDE.