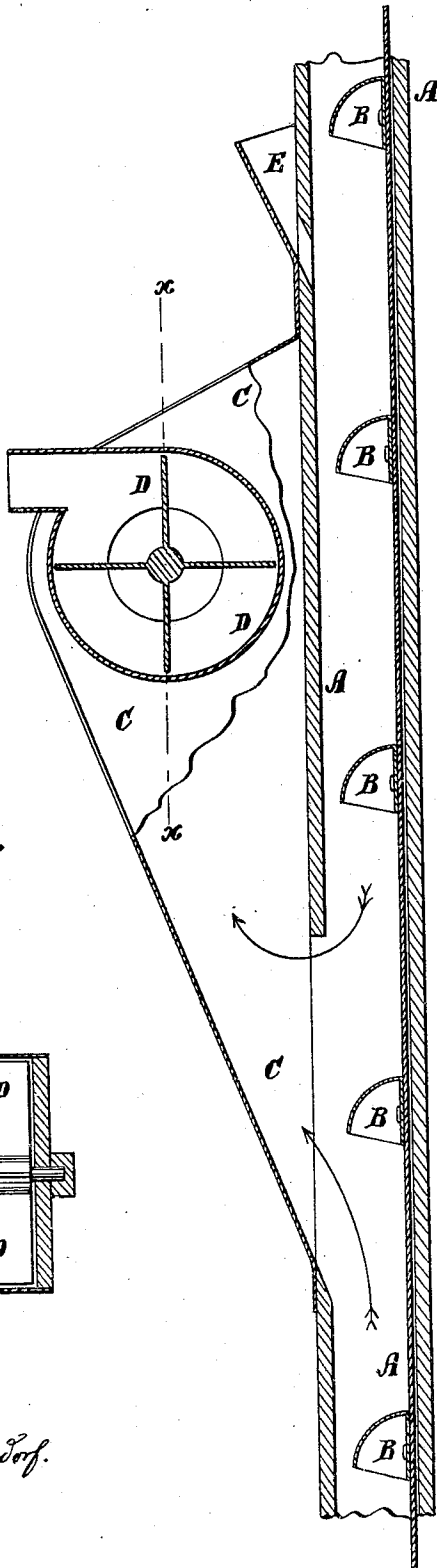


J. A. STEWART.  
Middlings-Purifiers.

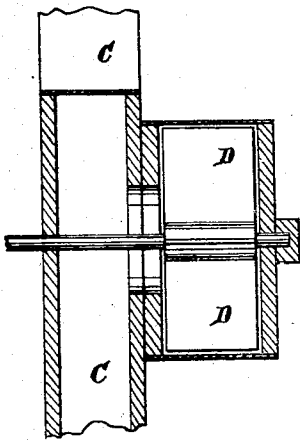
No. 149,166.

Patented March 31, 1874.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

*A. Bennekenhof.*  
*S. Sedgwick*

INVENTOR:

BY

*J. A. Stewart*  
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ATTORNEYS.

# UNITED STATES PATENT OFFICE.

JAMES A. STEWART, OF ATLANTA, GEORGIA.

## IMPROVEMENT IN MIDDLEINGS-PURIFIERS.

Specification forming part of Letters Patent No. **149,166**, dated March 31, 1874; application filed February 7, 1874.

*To all whom it may concern:*

Be it known that I, JAMES A. STEWART, of Atlanta, in the county of Fulton and State of Georgia, have invented a new and useful Improvement in Middlings-Purifier, of which the following is a specification:

Figure 1 is a longitudinal section of a portion of the descending trunk of a middlings-elevator to which my improvement has been applied. Fig. 2 is a detail section of the same taken through the line *x x*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The invention will first be fully described, and then pointed out in the claim.

A represents the descending trunk of a middlings-elevator, through which the endless chain of buckets B descends. C is a sharply-tapering flue, with a wide upper end, which is attached to the outer side of the elevator-trunk A, and the lower end of which communicates with the interior of the said trunk through a large hole formed in its said outer side. With the wide upper end of the flue C is connected a suction or exhaust fan, D, as shown in Figs. 1 and 2, through which the fine

brown dust and specks are drawn from the middlings. A free supply of air should be admitted into the lower part of the trunk A by means of gates or other devices that can be opened and closed, as desired, to regulate the draft.

The middlings are admitted into the upper part of the trunk A, through a spout, E, as fast as they fall from the dusting-reels, and while still in their loose or disintegrated state, and as they fall from one bucket, B, to another, they are acted upon by the blast of air which is passing up through the falling middlings.

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

The combination of middlings-elevator trunk A, endless chain of buckets B, flue C, and suction-fan D, in the manner described.

JAMES A. STEWART.

Witnesses:

E. L. WINHAM,  
H. D. AUSTIN,  
J. H. GOLDSMITH.