

J. F. GANDOLFO.
MIDDLINGS-PURIFIER.

No. 170,251.

Patented Nov. 23, 1875.

Fig. 1.

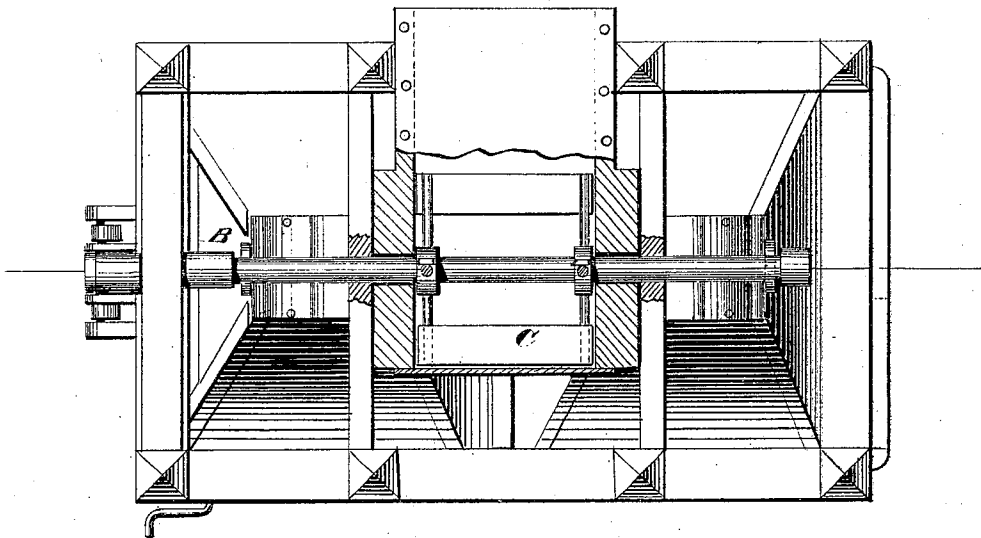
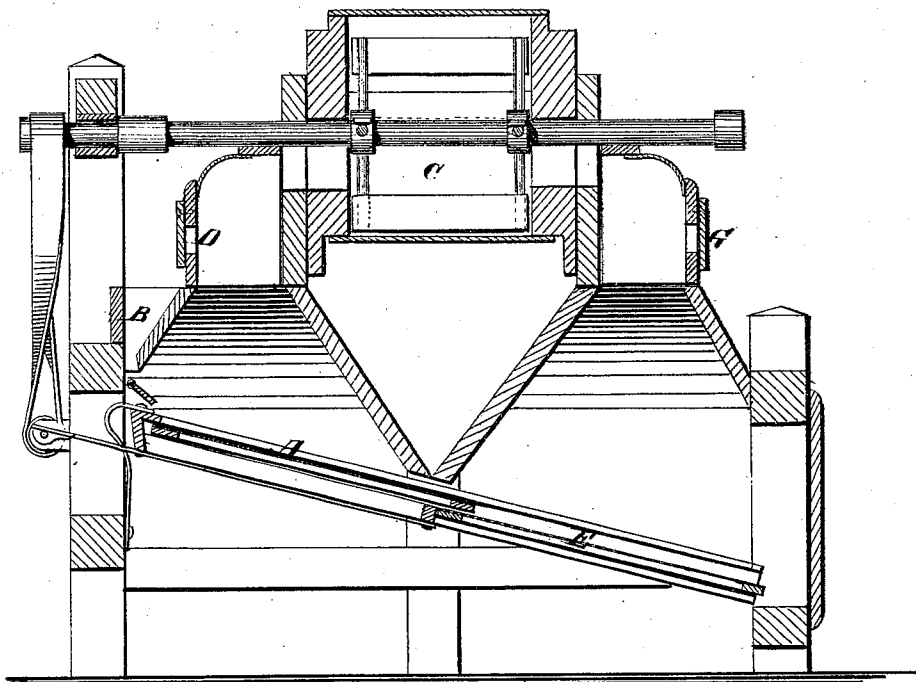


Fig. 2.



WITNESSES:

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IMPROVEMENT IN MIDLINGS-PURIFIERS.

Specification forming part of Letters Patent No. **170,251**, dated November 23, 1875; application filed July 17, 1875.

To all whom it may concern:

Be it known that I, JOHN F. GANDOLFO, of Dubuque, in the county of Dubuque and State of Iowa, have invented a new and Improved Middlings-Purifier, of which the following is a specification:

The invention will first be described in connection with drawing, and then pointed out in the claim.

Figure 1 is a horizontal section, and Fig. 2 is a longitudinal sectional elevation, of my improved middlings-purifier.

Similar letters of reference indicate corresponding parts.

A represents the fine sieve, onto which the middlings first pass from a feeding-shoe at the head B, where they are subject to a light upward draft of air, caused by the fan C, and regulated in force by the valve D. E is the coarse sieve, onto which the remainder passes after leaving the fine sieve, where a stronger draft takes up the heavier particles, while the coarser middlings escape through the sieve. A valve, G, also regulates this draft.

It will be observed that my hoods widen at the bottom, so as to cover the entire section of sieves A E, and thus arrest all impurities that would otherwise pass through the sieves. Ordinary machines cause a very strong cur-

rent of air to pass through one part of sieve, so that no middlings will pass over this part, but around and down the sides, because the hood or spout only covers a portion of the sieve.

It is also observable that by employing a shoe with an endwise movement the middlings are propelled forward over the sieves in a straight line with great rapidity, and thus almost, if not entirely, prevent the sieves from being clogged. In consequence of this I am enabled to dispense with the brushes, which cause so much wear to the sieve-cloth.

I also make the shoe with a much greater incline, can thereby use a coarser sieve, and hence increase the current of air passing through the sieves, the whole being only possible under an endwise movement of shoe.

What I claim as new is—

The combination of the successive inclined sieves A E—the former fine, the latter coarse, and both covered by hoods—with a fan, C, a feeding-shoe at head B, and valves D G, all arranged substantially as and for the purpose specified.

JOHN F. GANDOLFO.

Witnesses:

CONRAD LEIK,
CHRISTIAN KRAKOW.