

W.C. Knox's
GRAIN SEPARATOR

Scourer.

PATENTED AUG 9 1870

106177

Fig. 1.

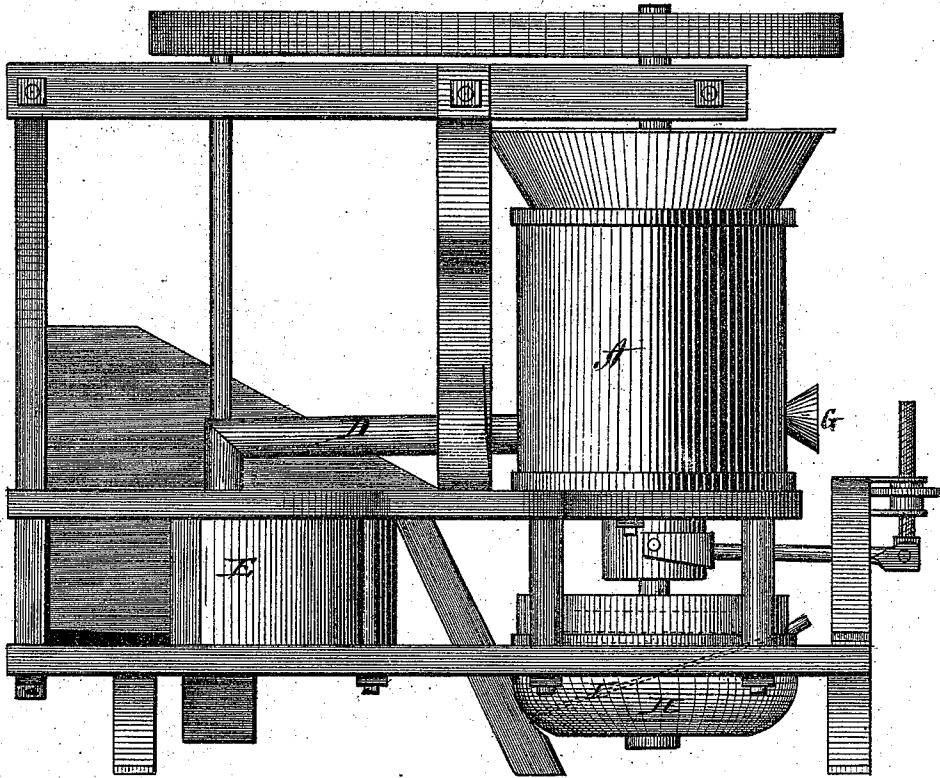


Fig. 2.

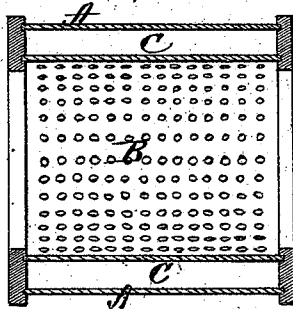
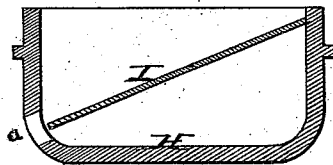


Fig. 3.



Witnesses
J. Lehmann
C. L. Green

Inventor
W. C. Knox
per
Alexander Mason
Atty.

United States Patent Office.

WILLIAM C. KNOX, OF JACKSONVILLE, ILLINOIS.

Letters Patent No. 106,177, dated August 9, 1870.

IMPROVEMENT IN GRAIN-SEPARATORS AND SCOURERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM C. KNOX, of Jacksonville, in the county of Morgan and in the State of Illinois, have invented certain new and useful Improvements in Grain-Separators and Scourers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, making a part of this specification.

My present invention is intended as an improvement upon the grain-scourer patented by me June 29, 1869, and consists in forming a dust-chamber between the cylinder and inside perforated lining, and connecting said dust-chamber with the fan-case, so that the dust will be carried off as soon as the grain is scoured.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a side elevation of my machine;

Figure 2 is a vertical section of the cylinder, in a horizontal position, showing the dust-chamber between it and the perforated lining; and

Figure 3 is a vertical section of the feed-bowl, showing the inclined bottom therein.

In this specification I have not deemed it necessary to describe any more of the machine than what is absolutely required for a full understanding of the present invention, all the other parts of the machine being fully described in my former patent.

A represents the upright cylinder, through which the shaft with the scourers passes. This cylinder is the same as in my former patent, provided with an inside perforated lining or jacket, B, but, in this case, said lining is placed a suitable distance from the inside of the cylinder, so as to form a chamber, C, all around the same.

From near the bottom of this chamber a tube, D, leads to the center of the fan-case E, so as to draw the dust from the chamber as it is scoured from the wheat.

On the opposite side of the cylinder is an air-hole, with funnel-shaped mouth G.

H represents the feed-bowl, which I have provided, in addition to the devices described in my former patent, with an inclined bottom, I, so that, when the grain falls off from the cap, it will readily pass out through the opening *a*.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The combination of the dust-chamber C, formed between the outer cylinder A and the inner perforated lining B, tube D, and air-inlet G, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 1st day of November, 1869.

W. C. KNOX.

Witnesses:

EDWARD C. LAX,
E. WOLCOTT.