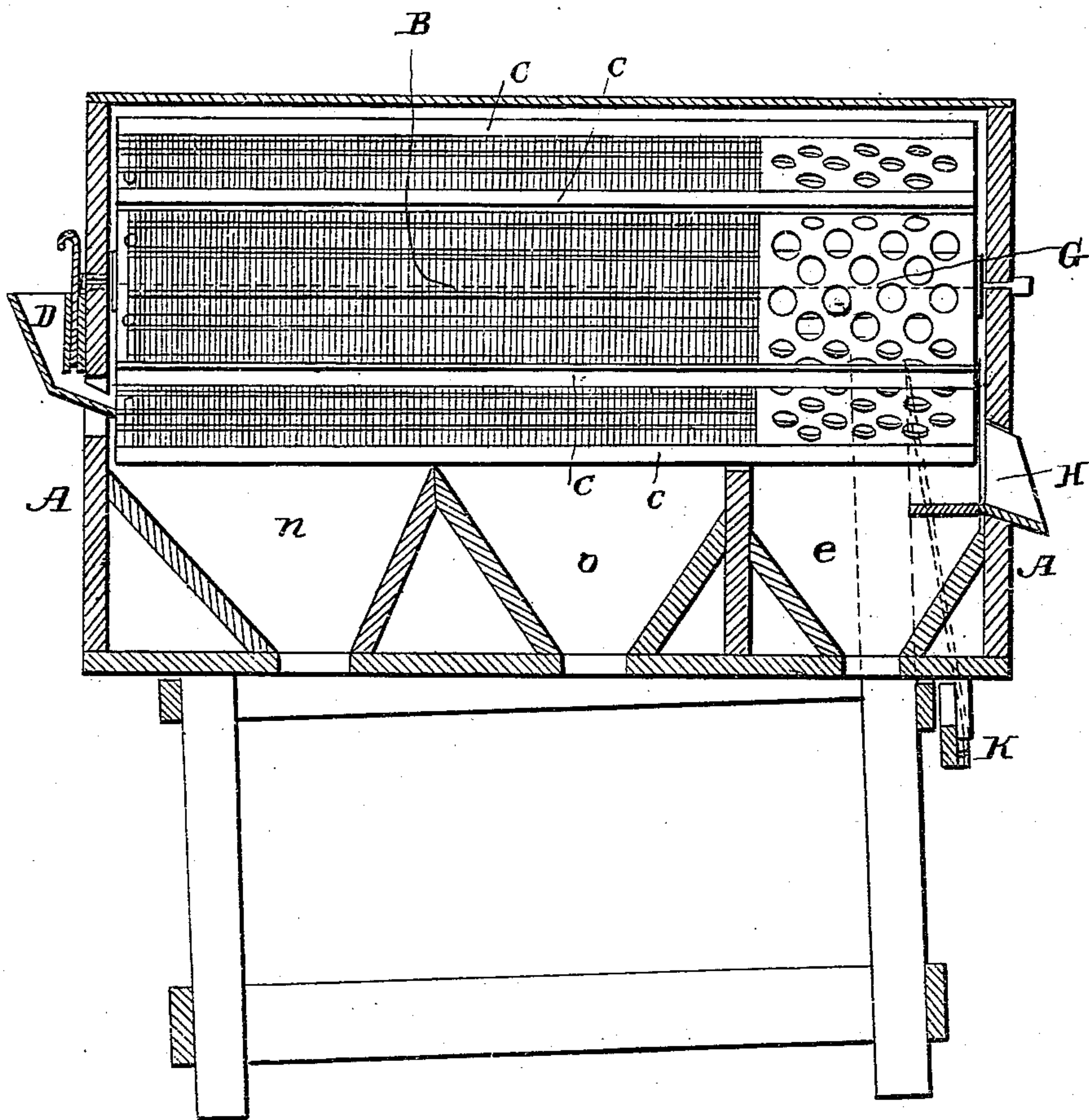


W. SPENCER.
Grain Winnower.

No. 94,144.

Patented Aug. 24, 1869.



Witnesses:
Harry King.
H. H. Lehmann

Inventor:
Wm Spencer
per
Alexander Mason
attor

United States Patent Office.

WILLIAM SPENCER, OF WINSLOW, INDIANA.

Letters Patent No. 94,144, dated August 24, 1869.

IMPROVEMENT IN GRAIN-SEPARATORS.

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 SPENCER, of Winslow, in the county of Pike, and in the State of Indiana, have invented certain new and useful Improvements in Grain-Separators; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction of a grain-separator, by means of which the cheat, cockle, and all impurities in wheat can be readily and easily separated, as will hereafter be fully set forth and described.

The accompanying drawing represents a horizontal section view of my invention.

Letter A represents the frame, which may be of any desired shape or size, and which has its lower part divided into three or more separate divisions, for the different qualities of grain.

Revolving inside of the frame is the cylinder B, into which the grain is placed to be separated, and which is formed of wire, of different-sized screens, or of wires and perforated plates together, the said plate being placed upon the end of the screen, and having the openings through it larger than those in the screen.

Upon the outside of the screen, extending from one end to the other, there are a number of ribs, c, which brace and strengthen it, and which allow the grain to move much more freely about, by being placed outside than in the screen.

At one end of the frame there is secured a hopper, D, having a spout leading inside of the cylinder, under its shaft, and is provided with a slide, so as to regulate the flow of the grain, which is kept up without any shaking motion whatever.

In order to control the speed at which the grain is to move through the cylinder, the end of the frame, on which the hopper is attached, is pivoted between

the legs, leaving the other end to move freely up and down, so that the cylinder can be lowered to any desired angle, whereby the grain is made to move slowly or rapidly, as may be desired.

As the cylinder is kept constantly revolving, as the grain falls upon the screens, the cheat and cockle at once pass through the openings in the screen, and fall into the first box n, and through the opening in the bottom, into a receptacle prepared for it.

As the remainder of the grain passes on down, it has to pass over a second-sized screen, when the smaller grains drop through into the second box o, while the larger or No. 1 grain falls through the openings in the plate G into the box e, while all larger articles pass on out of the cylinder, through the spout H, placed in the end of the screen.

Pivoted to one of the legs of the frame is the lever K, which has a small upright secured to its side, upon the top of which the end of the frame rests.

Attached to the opposite end of the lever there is a strap, (shown in dotted lines,) by means of which the frame is secured at any desired angle.

Having thus described my invention,

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

1. The frame A, having two or more boxes formed in its bottom, when said frame is made adjustable by means of the lever K and its strap, substantially as shown and described.

2. The arrangement of the adjustable frame A, having two or more boxes formed in its bottom, the revolving cylinder or drum B, hopper D, spout H, and lever K, all substantially as shown and described.

In testimony that I claim the foregoing, I have hereunto set my hand, this 14th day of June, 1869.

WILLIAM SPENCER.

Witnesses:

CHARLES W. DE BEULER,
GEORGE WHITMAN.