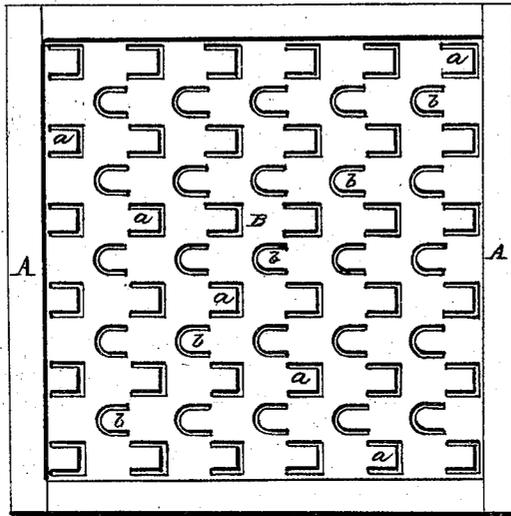


J. R. ALLEN.  
Grain Screen.

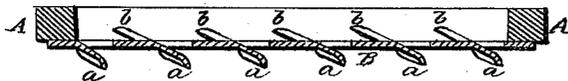
No. 97,584.

Patented Dec. 7, 1869.

*Fig. 1*



*Fig. 2*



*Witnesses*

*Larry King*  
*Leopoldus*

*Inventor*

*J. R. Allen*  
*Alexander Mason*  
*atty's*

# United States Patent Office.

J. R. ALLEN, OF EDINBURG, INDIANA.

Letters Patent No. 97,584, dated December 7, 1869; antedated November 27, 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, J. R. ALLEN, of Edinburg, in the county of Johnson, and in the State of Indiana, have invented certain new and useful Improvements in Grain-Separator; 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.

The nature of my invention consists in the construction of a riddle for a grain-separator, as will be hereinafter fully set forth.

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 drawings, which form a part of this specification, and in which—

Figure 1 is a plan view, and

Figure 2, a longitudinal vertical section.

A represents a frame, of any suitable dimensions, on the under side of which is secured a sheet, B, of metal:

This sheet of metal is cut with a number of wings, *a a*, set downward, to conduct the air upward, and facilitate the passage of the grain downward. These wings may be of any shape desired, and still answer

the purpose, and they may be placed in any manner deemed most advantageous, although I prefer cutting the metal sheet in such a manner that the wings are in regular rows, as seen in fig. 1.

Between these rows the sheet B is cut with similar or other-shaped wings, *b b*, set upward, thus forming alternate rows of apertures and wings, set downward and upward.

This may be used for any purpose that a riddle is required for—in separating chaff and straw from grain more particularly.

Having thus fully described my invention,

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

The metal plate B, provided with the wings *a a*, and the wings *b b*, placed in rows, and connected to the frame A, substantially as and for the purposes specified.

In testimony that I claim the foregoing, I have hereunto set my hand, this 9th day of March, 1869.

J. R. ALLEN.

Witnesses:

ISAAC F. TOBIUS,  
J. R. SHARP.