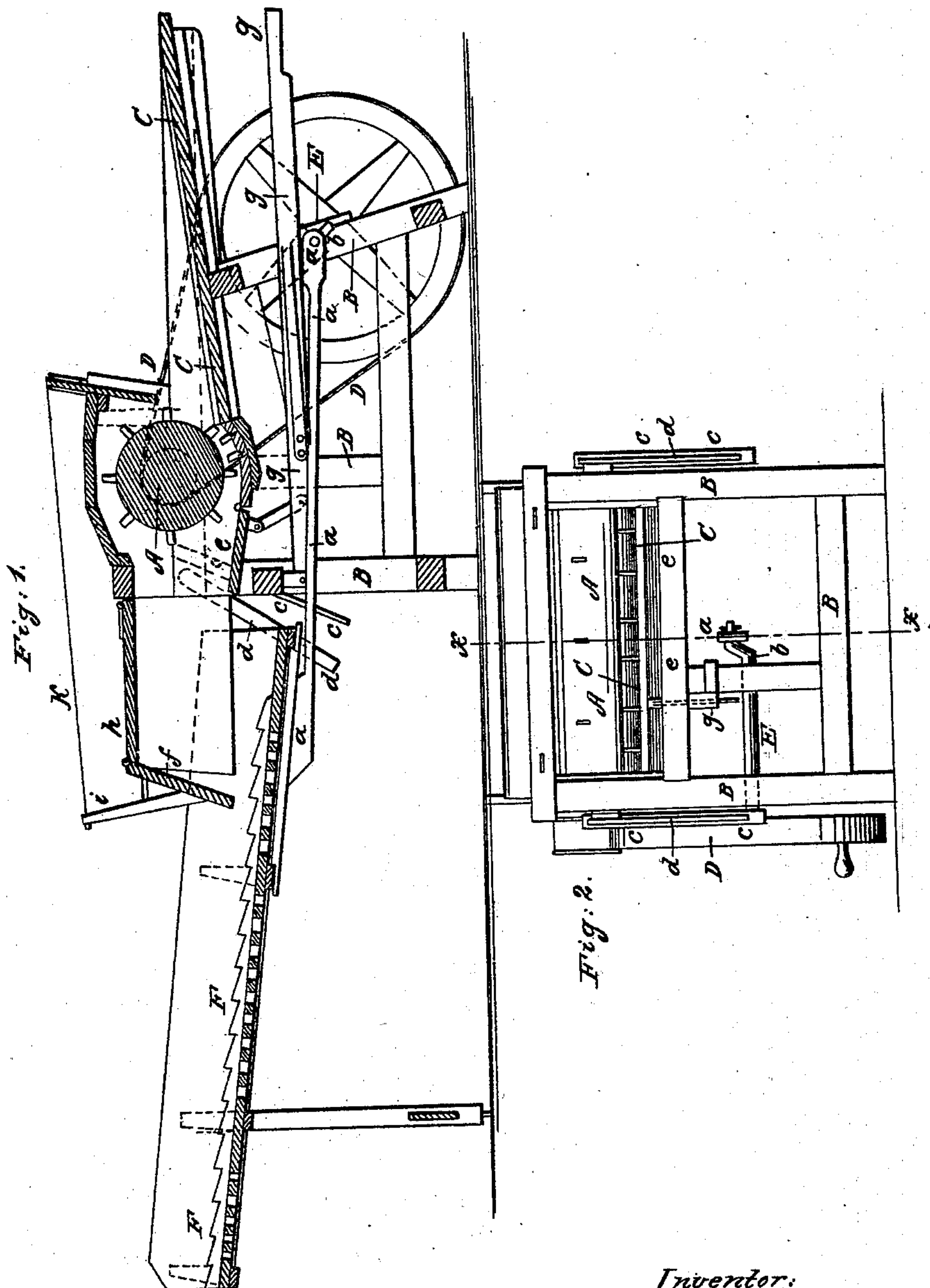


B. YEAKEL.  
Thrashing Machine.

No. 68,825.

Patented Sept. 10, 1867.



Witnesses:  
Theo Tusche.  
J. A. Service.

Inventor:  
B. Yeakel.  
Per *Wm. H. Co.*  
attys.

# United States Patent Office.

BENJAMIN YEAKEL, OF ALLENTOWN, PENNSYLVANIA

*Letters Patent No. 68,825, dated September 10, 1867.*

## IMPROVEMENT IN THRESHING MACHINES.

*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, BENJAMIN YEAKEL, of Allentown, in the county of Lehigh, and State of Pennsylvania, have invented a new and improved Threshing Machine; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a vertical longitudinal section of my improved threshing machine, the plane of section being indicated by the line *x x*, fig. 2.

Figure 2 is an end view of the same, the shaking apparatus being removed.

Similar letters of reference indicate like parts.

The object of this invention is to construct a threshing machine which may be regulated so as to adapt the machine for use on long or short straw, or to regulate the speed, and which will therefore be more useful and practicable than the machines now in use.

A is the cylinder for threshing the straw, and is mounted in suitable bearings which are arranged in the frame B of the machine. The straw is fed to the cylinder on an inclined board, C. The cylinder receives motion by a belt, D, from the driving-shaft E, or otherwise. The straw, after passing under the cylinder, is carried off by a shaking-table, F, which is perforated to let the grain fall through. The shaking-table receives motion from a rod, *a*, which is connected to a crank, *b*, on the driving-shaft E.

All these parts I do not claim as my invention; they are arranged as usual. But my invention consists in the construction and arrangement of the adjustable device for detaining the straw, and also in the use of two springs, *c*, of which one is secured to either side of the frame B, as shown, and against which the lower end of the rod *d* strikes, to which the end of the table F is hinged, so that by means of this spring any concussion or shock to the frame B is prevented. The detaining apparatus consists of two boards, *e* and *f*, the former being hinged to the end of the board C, between the same and the shaker F. The outer end of this board may be raised and lowered at will by means of a lever, *g*, which is pivoted to the frame B, or by any other suitable device. It will be seen that the more the board *e* is raised, or rather turned up, the smaller will be the throat for the straw to pass through, and thus, for short straw, the board is turned up, while for long straw it is brought on a level with the board C. The board *f* is hinged to the horizontal stationary cover *h* of the apparatus, so as to hang above the shaking-table F, by means of a lever, *i*, and strap *k*, or by any other suitable means. This gate *f* may be more or less lowered, so as to leave a larger or smaller throat between its lower edge and the shaker F, for the same purpose as the board *e*.

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

1. The detaining apparatus, consisting of the boards *e* and *f*, when the same are arranged and operating substantially as and for the purpose herein shown and described.
2. The springs *c*, on the frame B, in combination with the bars *d* and shaking-table F, all made and operating substantially as herein shown and described.

BENJAMIN YEAKEL.

Witnesses:

AMOS K. KRAUSS,

H. K. WITTMAN.