

P. H. GRABER.
THRESHING MACHINE.
APPLICATION FILED JAN. 23, 1908.

930,174.

Patented Aug. 3, 1909.

Fig. 1.

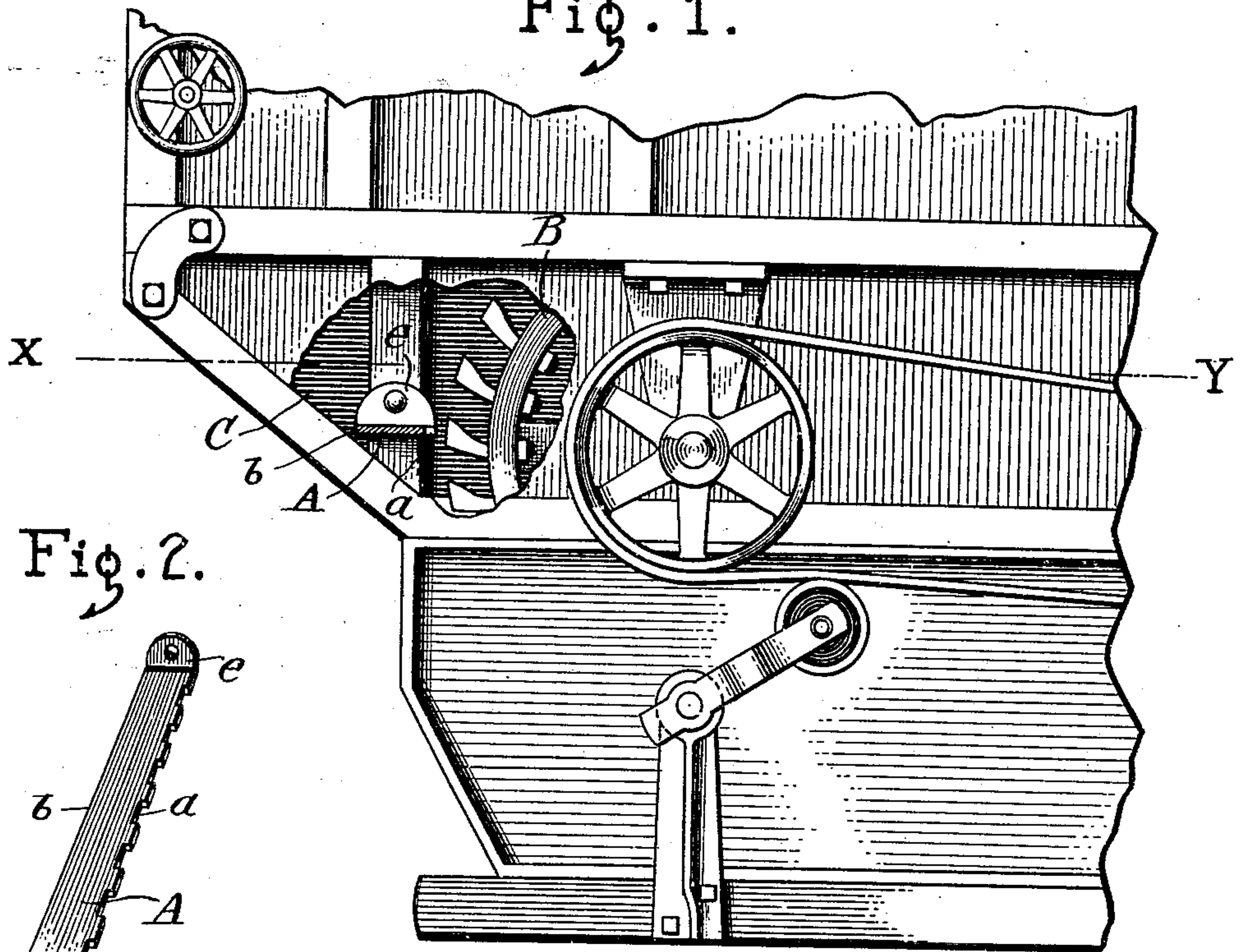


Fig. 2.

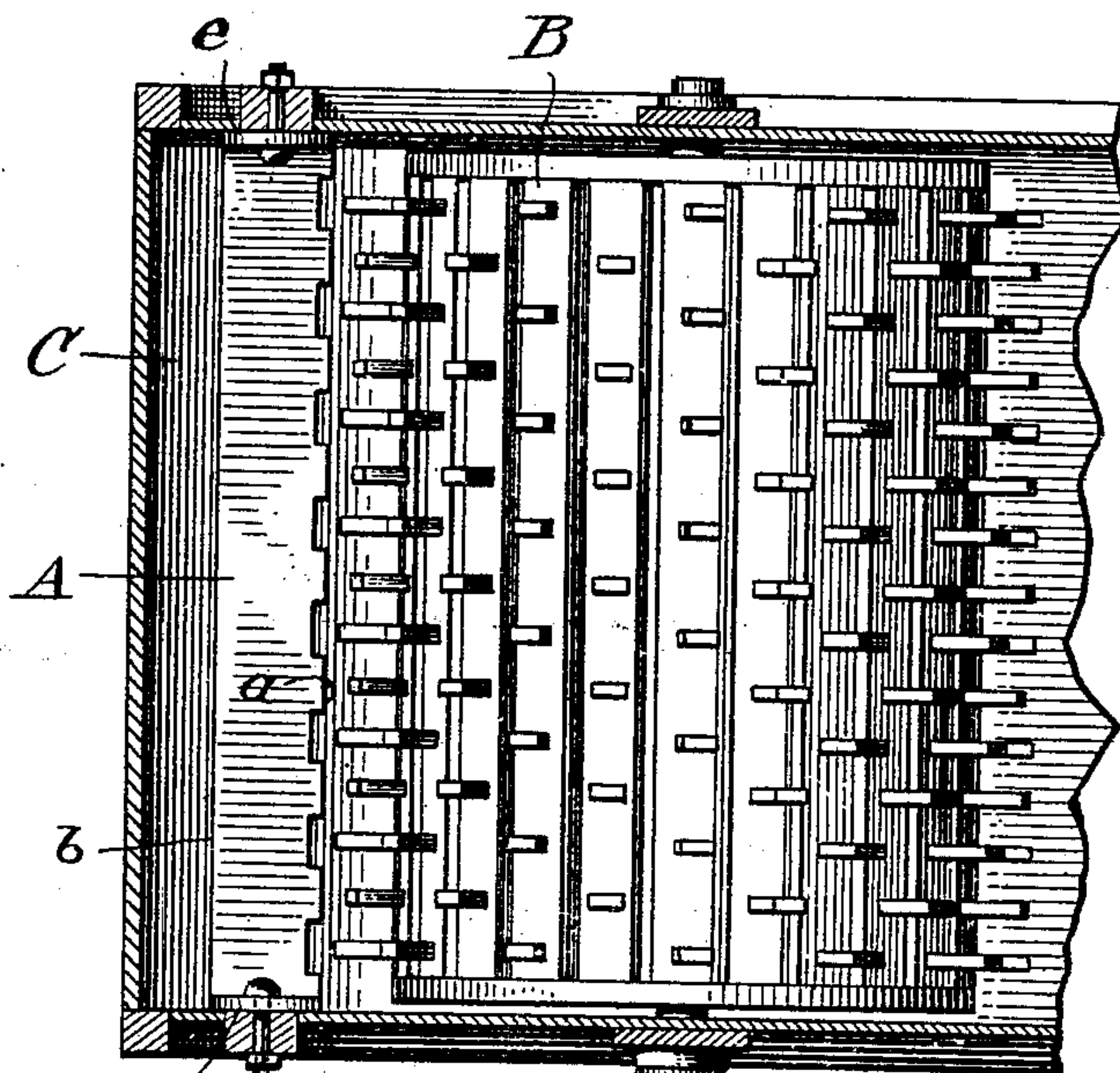
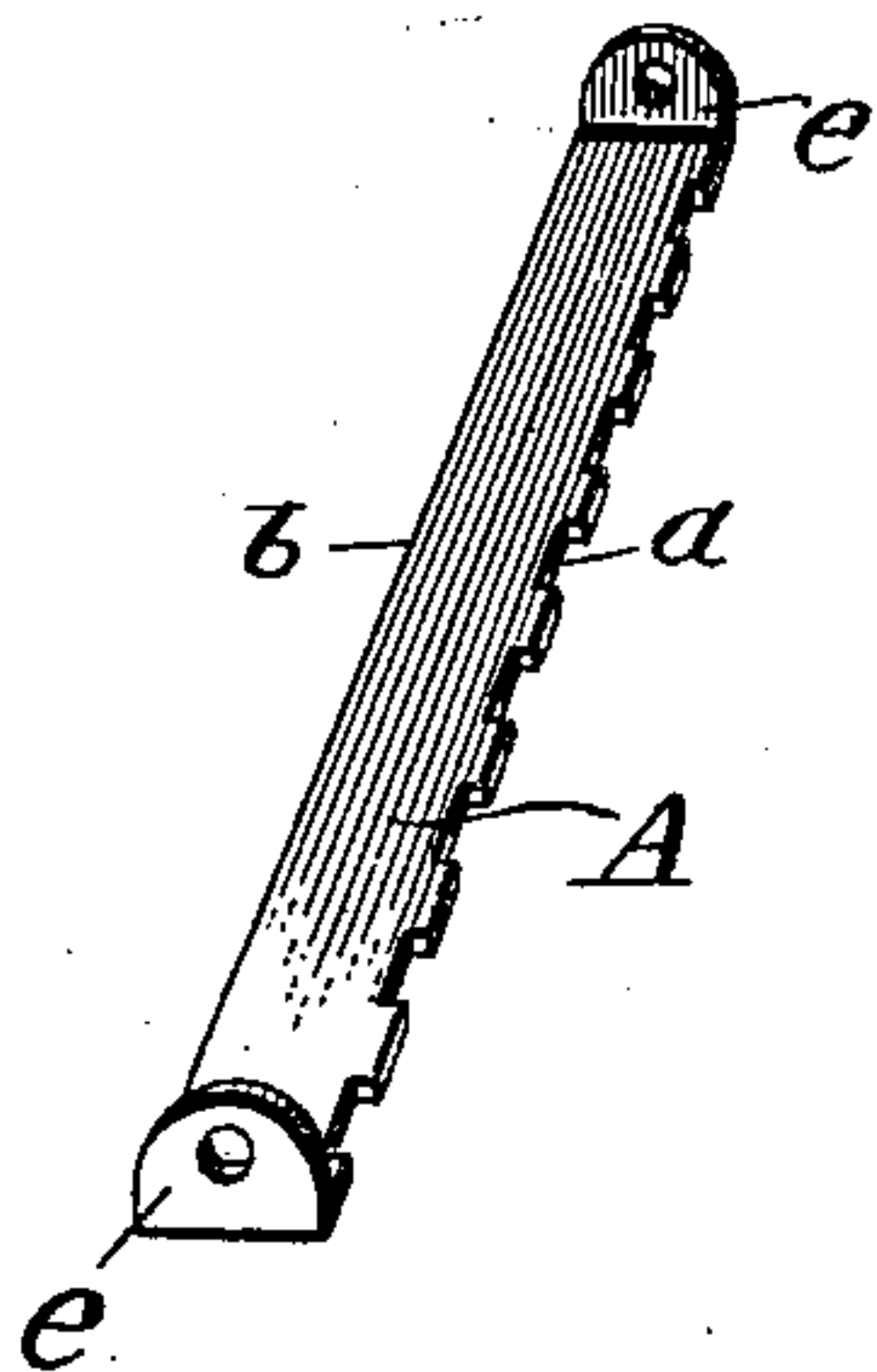


Fig. 3.

Witnesses: *e*
H. S. Baker
W. O. Becht



Inventor:
Peter H. Graber,
By H. B. Swartz, Atty.

UNITED STATES PATENT OFFICE.

PETER H. GRABER, OF DALTON, OHIO.

THRESHING-MACHINE.

No. 930,174.

Specification of Letters Patent.

Patented Aug. 3, 1909.

Application filed January 23, 1908. Serial No. 412,340.

To all whom it may concern:

Be it known that I, PETER H. GRABER, a citizen of the United States, residing at Dalton, in the county of Wayne and State of Ohio, have invented a new and useful Improvement in Threshing-Machines, of which the following is a specification.

My invention relates to improvements in grain threshing-machines, and especially to devices for regulating the feed of the straw to the cylinder.

I am aware that heretofore an adjustable "straw spreader" in the form of a rake and mounted directly over the top of the cylinder alined therewith, has been used in threshing machines in connection with a feeder; and I am also aware that it is not new to use in clover hullers an inclined feed table terminating with teeth in front of the cylinder adapted to register therewith and having a slidable plate thereon to limit the length of said teeth, and such I do not claim.

My improvement consists of a straw retainer for threshing machines comprising a metal plate adjustably secured in the throat of the machine immediately in front of and alined with the cylinder in a substantially horizontal plane slightly above that of the cylinder axis, and improved means for there regulating and limiting the distance between its adjacent edge and the cylinder teeth; all as hereinafter more particularly set forth and claimed.

It consists chiefly of a metal plate, called a straw-retainer, adjustably secured in the throat of the threshing-machine immediately in front of and alined with the cylinder, and at a proper distance therefrom, adjusted thereto in a manner and to best accomplish the object stated.

It further consists of the novel method of constructing and attaching the said straw-retainer, all of which will be hereafter more particularly set forth, and stated in the claim.

My invention is illustrated by the accompanying drawings in which similar letters of reference indicate like parts.

Figure 1 is a sectional view of the front end of an ordinary grain threshing-machine, embodying my invention. Fig. 2 is a perspective view of my straw-retainer removed. Fig. 3 is a horizontal sectional view

of the cylinder and straw-retainer in normal position on line X—Y of Fig. 1.

In the drawing B is the cylinder, C the throat of the machine, and A is my improved straw-retainer. The cylinder B is such as is commonly used in threshing-machines. The straw-retainer A is preferably formed of one rectangular piece of metal the length of the cylinder; it is provided with ears, *e e*, at each end, whereby it is adjustably secured in a substantially horizontal plane in the throat of the machine at each side thereof, immediately forward of the cylinder and a little above the horizontal plane of its axis. To provide for varying the friction thereon suited to variety in the grade of the straw, I construct one of the edges, *a*, of the straw-retainer with a series of notches, and the opposite side, *b*, is left even. The straw-retainer is made reversible, so that either side or edge may be placed directly opposite the teeth of the cylinder, as may be most advantageous. Moreover, by means of the ears *e e*, which for the purpose are perforated for bolts slightly at one side of the longitudinal center of the plate A, the proximity and also the slant of the adjacent edge thereof to the cylinder teeth may be regulated exactly to suit the straw conditions. Its operation is such that when the straw is delivered to the cylinder, it is retained upon this adjustable strip of metal until the cylinder has opportunity to draw the straw gradually over the same, thereby preventing clogging of the cylinder.

I do not limit myself to the particular form or method of constructing and adjusting the straw-retainer, as this may be varied without departing from the spirit of my invention.

This invention may also be used in other machines of similar character and for like purpose.

Having thus fully described my invention, what I claim is new and desire to secure by Letters Patent is:—

In a threshing machine, the combination with the cylinder and the throat of the machine, of a reversible straw retainer adapted to be arranged in the throat of the machine, in a horizontal plane above that of the axis of the cylinder, said retainer comprising a

plate adapted to be held in a horizontal position in the throat of the machine, said plate having a toothed and a smooth edge and provided with apertured ears, and bolts
5 extending through said ears and sides of the machine for locking said plate in its adjusted position.

In witness whereof I hereunto set my hand.

PETER H. GRABER.

In presence of two witnesses:

GEORGE A. SELDERS,

JOHN SELDERS.