

No. 769,764.

PATENTED SEPT. 13, 1904.

O. E. OLSEN.

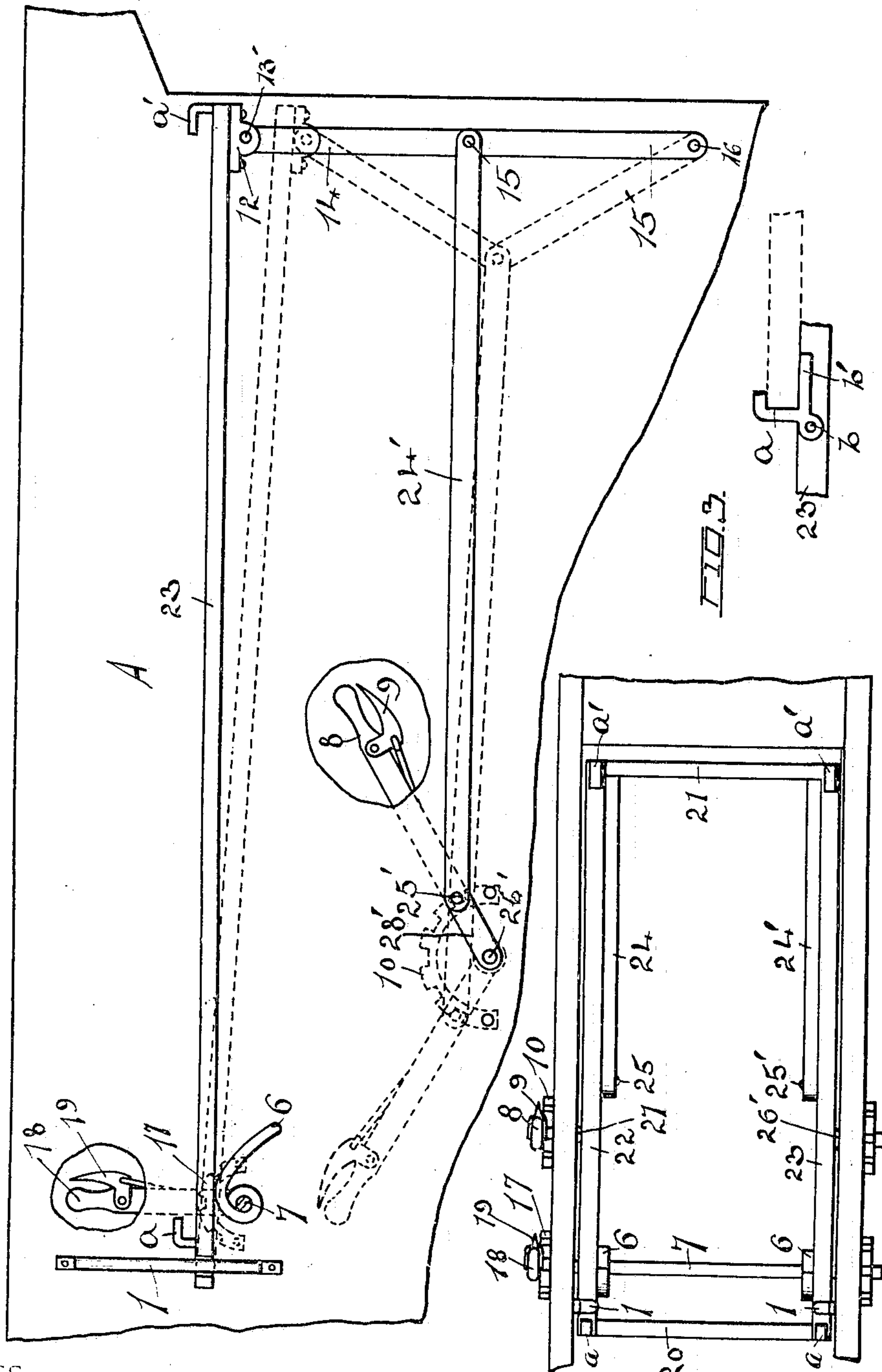
SIEVE ADJUSTER FOR THRESHING MACHINES.

APPLICATION FILED SEPT. 10, 1903.

NO MODEL.

2 SHEETS—SHEET 1.

FIG. 1.



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FIG. 2.

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NO MODEL.

2 SHEETS—SHEET 2.

FIG. 4.

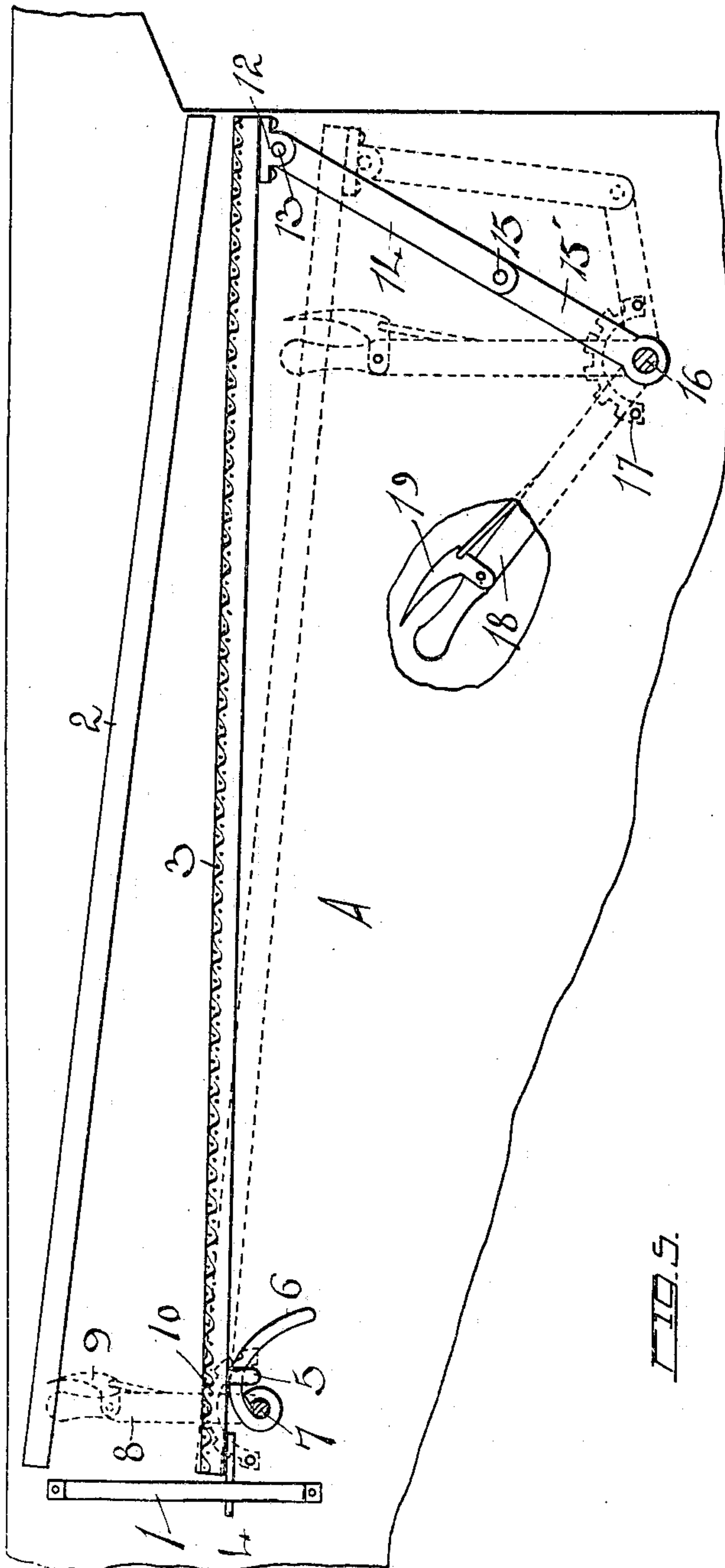


FIG. 5.

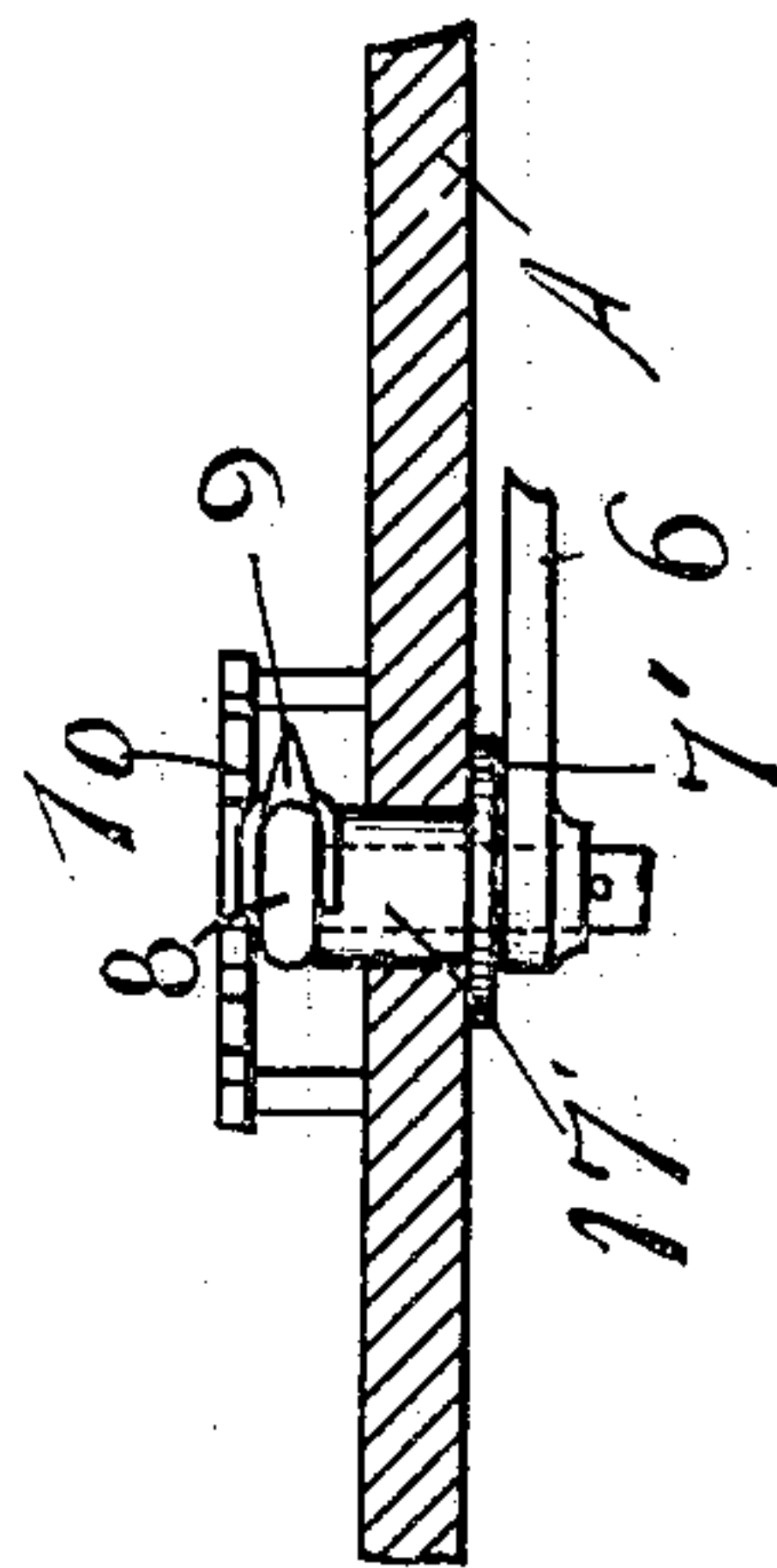
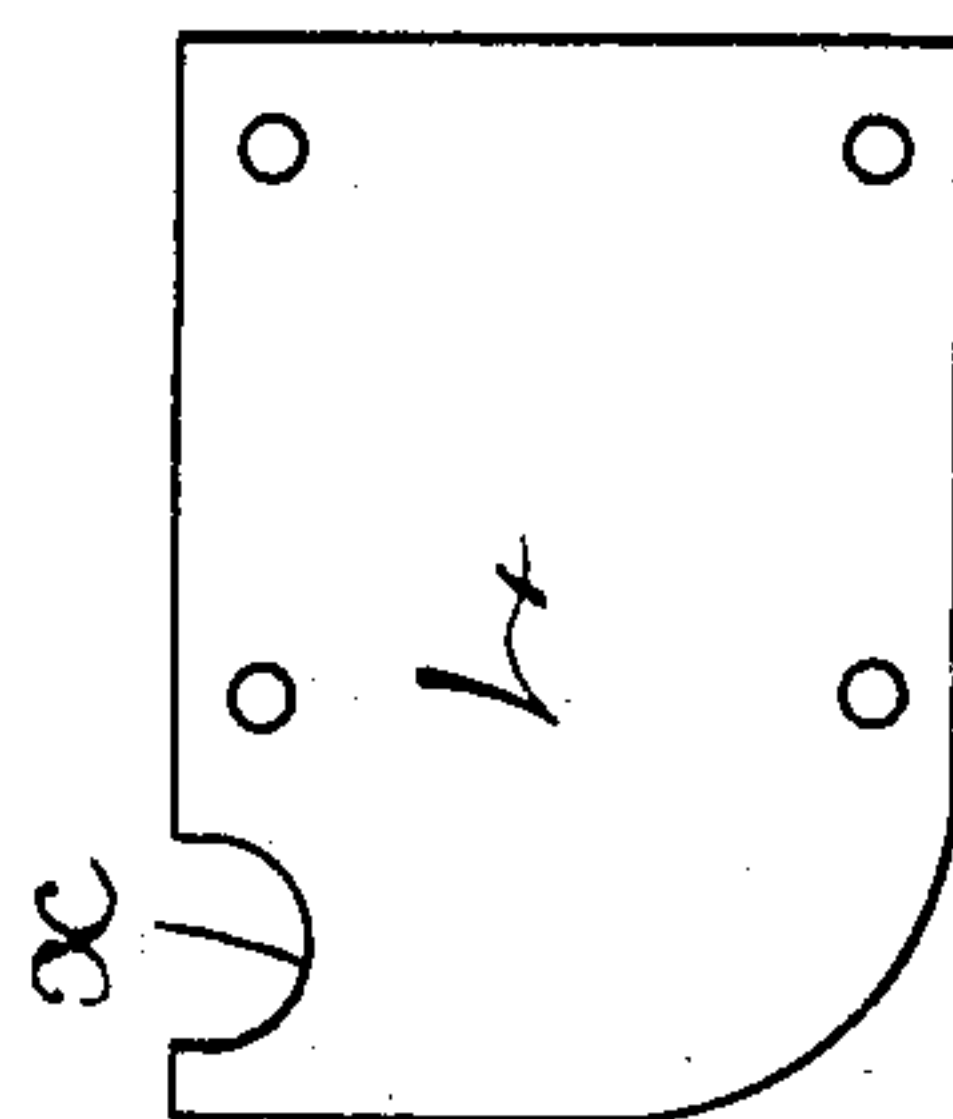


FIG. 6.



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UNITED STATES PATENT OFFICE.

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SIEVE-ADJUSTER FOR THRESHING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 769,764, dated September 13, 1904.

Application filed September 10, 1903. Serial No. 172,577. (No model.)

To all whom it may concern:

Be it known that I, OLE E. OLSEN, residing at Fremont, in the county of Dodge and State of Nebraska, have invented certain useful Improvements in Sieve-Adjusters for Threshing-Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to a new and novel improvement in an adjustable sieve-holder for threshing-machines.

The aim of my invention is to provide an adjustment for a sieve so that the sieve may be tilted to have the tailings drift at a predetermined speed over the sieve, which may be nicely adjusted to get the desired inclination; and my invention further embodies the advantage in that I use a frame adapted to removably hold a suitable sieve, so that the sieve may be removed from the holder at any time; and my invention embodies certain other combinations, as will be described more fully hereinafter and finally pointed out in the claims.

In the accompanying drawings I have shown in Figure 1 a broken portion of a threshing-machine disclosing the arrangement of my sieve-adjuster. Fig. 2 shows a top view disclosing the arrangement of the sieve-holding frame. Fig. 3 shows an enlarged view of the sieve-holder. Fig. 4 shows a detail disclosing the modification in which the sieve is secured directly to a set of toggle-bars. Fig. 5 shows a detail of the operating-lever used in the modification, while Fig. 6 shows a detail of the guide-plate as used in the modification.

In carrying out the aim of my invention I use an ordinary operating-lever 8, as shown in Fig. 1, which is mounted upon a stub-shaft 27, passing through the side A of the threshing-machine. Extending from the stub-shaft 27 is a link 28', to which link 28' is secured a pin 25, supporting the bar 24, as shown in Figs. 1 and 2. Passing through the threshing-machine from the opposite side and in alinement with the stub-shaft 27 is a stub-shaft 26', which is also provided with a link

28', as shown in Fig. 1, and in this view the link secured to the shaft 26' hides the similar link secured to the stub-shaft 27, and this link 28', secured to the shaft 26', is also provided with a pin 25', from which extends a counterpart bar 24'. The lever 8 is provided with the usual hand-latch 9, used in conjunction with a notched sector 10, so that the stub-shaft 26' can be rocked from side to side and be adjustably secured.

Secured to the sides of the threshing-machine in alinement and upon opposite sides are two similar pins, and each pin pivotally holds a toggle-bar 15', which by means of a pin 15 is secured to a toggle-bar 14, pivotally fastened to an ear 12, secured to the frame members 22 and 23 of my sieve-holder. To the pins 15, uniting the toggle-bars 14 and 15', are secured the connecting-bars 24 and 24', so that as the link 28' is actuated by means of the operating-lever 8 it raises or lowers the sieve-frame to actuate the toggle-bars 14 and 15', secured to the opposite side.

The sieve-holding frame comprises the two side members 22 and 23 and the end members 20 and 21, and in connection with the end members I use a guide-rod 1, which works within a depression within the side of the members 22 and 23 to prevent longitudinal displacement of the sieve-holding frame. I find, however, that it is not absolutely necessary to have these guide members 1, as shown in Figs. 1 and 2. At opposite ends the sieve-holding frame members 22 and 23 are provided with the sieve-holding ears *a'*, which are held by means of a pin *b*, and are provided with a lower extension *b'*, engaged by the sieve when the same is placed upon the sieve-holding frame. In Fig. 3 the position of the sieve is shown in dotted lines, and these pivotally-held holders prevent the lateral displacement of the sieve, though the same may be removed in raising the sieve. Upon the opposite end the sieve-holding members are marked *a'*. At the end opposite to that to which the toggle-bars 14 and 15' are secured I support the sieve-holding frame by means of a shaft 7, provided with the eccentric arms 6, this shaft 7 being provided with an operating-lever 18, a thumb-latch 19, and a notched

sector 17, so that this shaft 7 will be adjustably locked. In rocking the shaft 7 the arms are raised to adjust the sieve at that end. This shaft 7 works within a hub 17', as shown in Fig. 5, the hub being secured by means of the flange 7'.

In Fig. 4 I have shown a modification in which I employ the toggle-bars 14 and 15', which, however, by means of pins 13 are directly secured to the ears 12, fastened to the sieve 3. The sieve, however, cannot be removed, and upon the opposite end I provide the sieve 3 with the ears 5, through which the eccentric arms 6 work, as in the previous instrumentalities, so that this sieve may also be raised and lowered. In this modification I provide the sieve with a plate 4, as shown in Fig. 6, provided with a groove *x*, which engages the guide-rod 1. In Fig. 5 I have shown the arrangement of the operating-lever as used in this modification, which comprises the notched sector 10, the thumb-latch 9, and is provided with a hub 17'.

These sieve-adjusters may be made of suitable sizes.

Having thus described my said invention, what I claim as new, and desire to secure by United States Letters Patent, is—

1. A sieve-adjuster, comprising a rectangular frame, pivotally-supported sieve-holders secured to said frame, a suitably-supported shaft, two eccentric arms secured to said shaft, said eccentric arms engaging aforesaid frame below and at one end, an operating-lever to

adjustably secure said shaft, a set of toggle-bars secured to the opposite end of said frame, said toggle-bars at the remaining end being secured to the housing of a suitable threshing-machine, a connecting-bar extending from the union of said toggle-bars, a stub-shaft, an arm extending from said stub-shaft and being secured to said connecting-bar, an operating-lever secured to said stub-shaft, a latch secured to said operating-lever, and a notched sector to receive said latch, all arranged as set forth.

2. A sieve-adjuster comprising a rectangular frame, pivotally-supported sieve-holder secured to said frame, a suitably-supported shaft, two eccentric arms secured to said shaft, said eccentric arms engaging aforesaid frame below and at one end, an operating-lever to adjustably secure said shaft, a set of toggle-bars secured to the opposite end of said frame, said toggle-bars at the remaining end, being secured to the housing of a suitable threshing-machine, a connected bar extending from the union of said toggle-bars, a stub-shaft, an arm extending from said stub-shaft, and being secured to said connected bar, and an operating-lever secured to said stub-shaft and means to lock said operating-lever.

In testimony whereof I affix my signature in presence of two witnesses.

OLE E. OLSEN.

Witnesses:

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ROBERT J. STINSON.