

No. 747,812.

PATENTED DEC. 22, 1903.

J. E. WALLACE.
TONGUE ATTACHMENT FOR BINDERS.
APPLICATION FILED SEPT. 12, 1903.

NO MODEL.

Fig. 1.

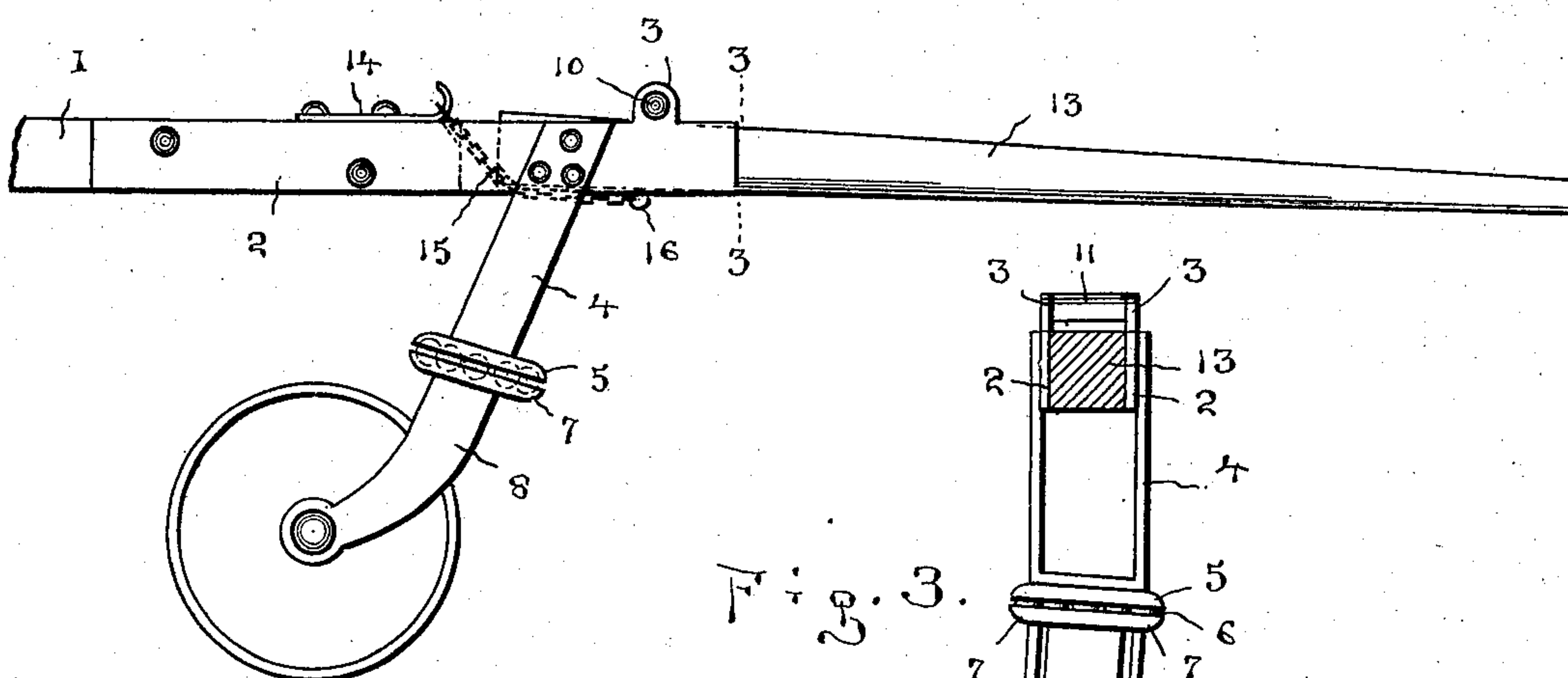


Fig. 3.

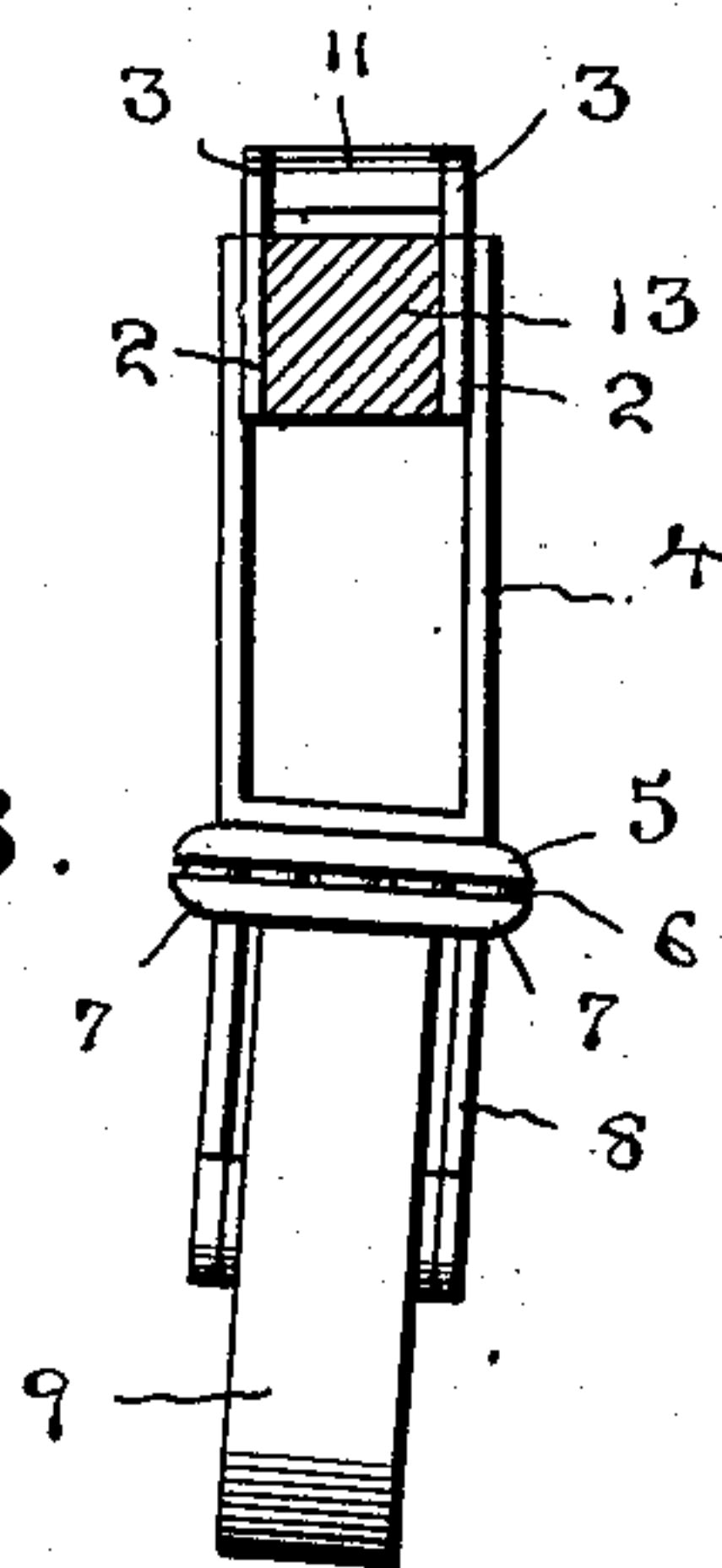


Fig. 2.

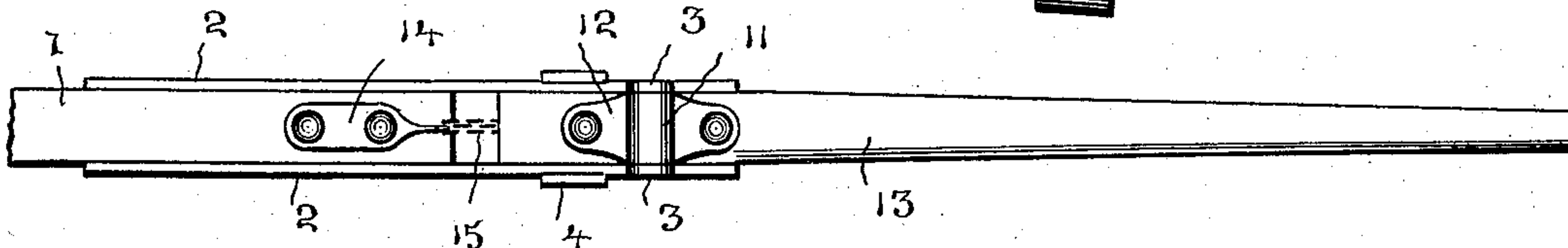


Fig. 4.

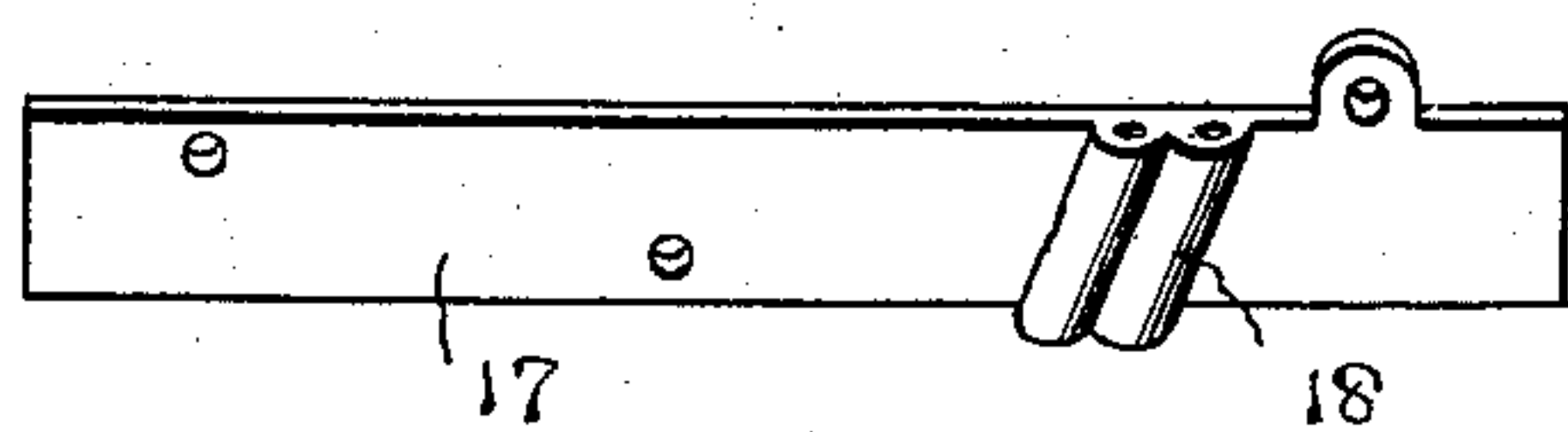
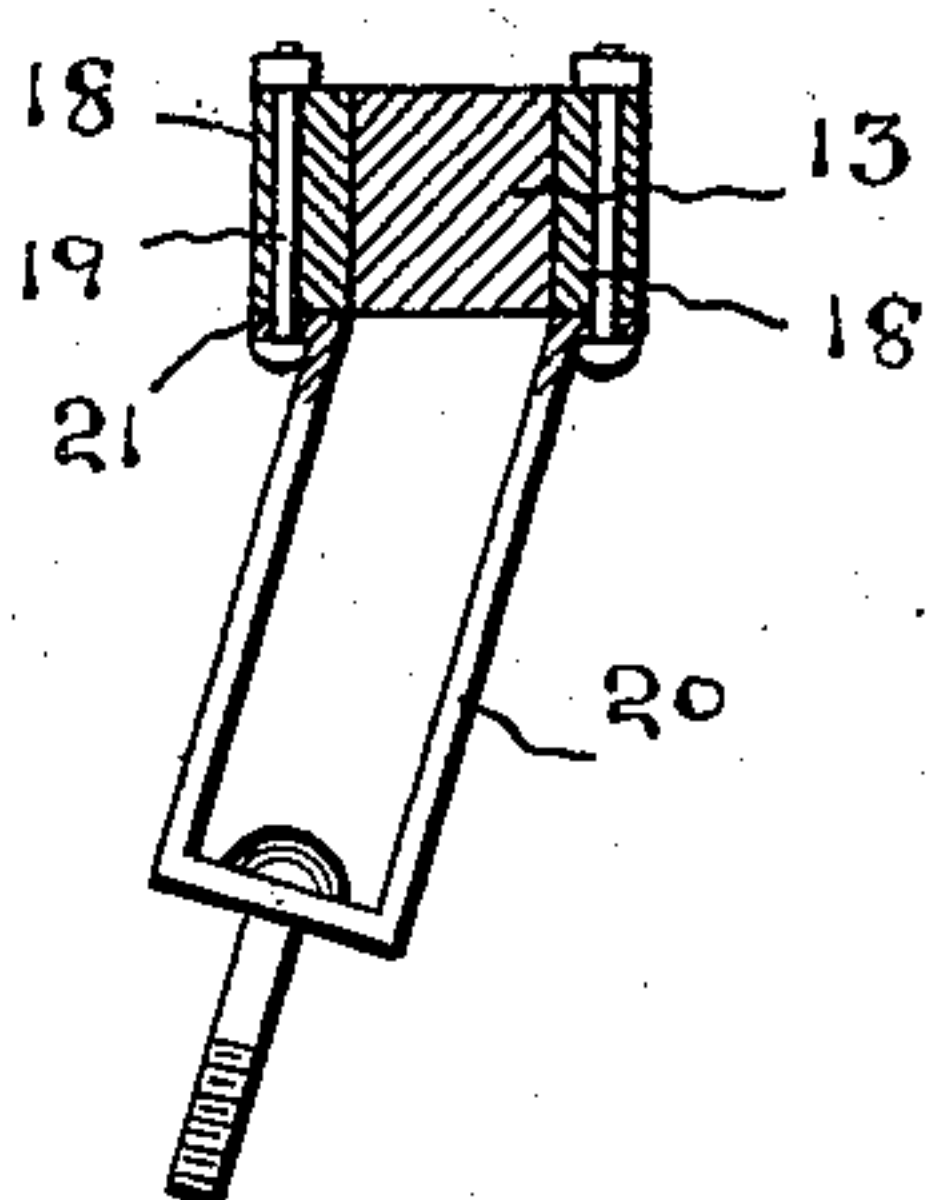


Fig. 5.



Witnesses

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TONGUE ATTACHMENT FOR BINDERS.

SPECIFICATION forming part of Letters Patent No. 747,812, dated December 22, 1903.

Application filed September 12, 1903. Serial No. 172,963. (No model.)

To all whom it may concern:

Be it known that I, JAMES E. WALLACE, a citizen of the United States, residing at Blackwell, in the county of Kay and Territory of Oklahoma, have invented new and useful Improvements in Tongue Attachments for Binders, &c., of which the following is a specification.

My invention relates to new and useful improvements in tongue attachments for binders, mowers, and other heavy tongued machines; and its object is to provide a device of this character which is adapted to prevent side draft and to distribute the weight of the machine, and thereby permit it to be more readily drawn from place to place.

Another object is to so construct the attachment as to support the neck weight of the machine.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a side elevation of the tongue attachment. Fig. 2 is a top plan view thereof. Fig. 3 is a section on line 3-3, Fig. 2. Fig. 4 is a detail view of a modified form of side plate for the attachment, and Fig. 5 is a section through a tongue employing these modified forms of side plates.

Referring to the figures by numerals of reference, 1 is a short tongue-section, to opposite sides of which are secured longitudinally-extending plates 2, which extend beyond the outer end of the section 1 and are provided with upwardly-extending ears 3. To each of these plates is bolted or otherwise secured a substantially U-shaped hanger 4, having a cup 5 at its lower end for the reception of antifriction-balls 6. These balls are mounted in a cup 7, arranged at the upper end of arms 8, between which is journaled a wheel 9. The cups 5 and 7 are arranged at an angle to the lower surface of the tongue-section 1, so as to hold the wheel 9 normally inclined and prevent side draft. Arranged within the ears 3 is a pivot-pin 10, on which is revolubly mounted an ear 11,

which extends upward from a plate 12. This plate is bolted or otherwise secured to a tongue-section 13, which forms the principal portion of the tongue, and the inner end of which is mounted between the two side plates 2. A hooked plate 14 is fastened upon the section 1 and is adapted to be engaged by a chain 15, which extends downward between the two tongue-sections 1 and 13 and is permanently fastened to the bottom of the section 13 by means of a staple 16 or any other suitable device.

In lieu of providing the side plates 2 side plates 17 of modified form may be used. I have shown one of these plates in Fig. 4. The same are substantially similar in construction to the plates 2, with the exception that parallel tubular beads 18 are formed in their outer faces for the reception of bolts 19, whereby a substantially U-shaped hanger having laterally-extending ears may be fastened in position. I have shown this manner of connecting the hanger 20 in Fig. 5.

It will be seen that by providing a wheel or caster such as is herein described at a point intermediate the ends of the tongue the weight of the machine is removed from the draft-animals. When it is desired to cut short grain or grass, chain 15 is shortened so as to firmly bind upon the inner end of tongue-section 13. This arrangement will prevent the guards of the machine to which the tongue is connected from coming in contact with the ground should the wheel 9 move into a ditch or other depression, for the reason that the draft-animals would support the machine and hold the wheel above the depression. It will be understood that should the chain be loosened the draft-animals could not support the front portion of the machine, for the reason that the rear end of the section 13 would swing downward and allow the point of conjunction between the two tongue-sections to become depressed when passing over irregular surfaces.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the

right to make such changes and alterations as may fairly fall within the scope of my invention.

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

1. An attachment of the character described comprising a tongue-section, parallel side plates extending therefrom, a second tongue-section pivoted between the side plates, a flexible connection between the tongue-sections for supporting said second section and preventing sagging of the point of connection between the sections, and a wheel connected to and adapted to support the engaging ends of the sections.

2. An attachment of the character described comprising a tongue-section, parallel side plates secured thereto, a second tongue-section pivoted between the side plates, a hanger depending from the side plates, arms revolubly connected thereto, a wheel journaled between the arms, a hook upon the

first-mentioned section, and a flexible connection between said hook and the second section, said connection extending between the two sections.

3. An attachment of the character described comprising a tongue-section, parallel side plates connected thereto, tubular beads upon said plates, a hanger below the side plates, means for securing the hanger to the beads, arms revolubly connected to the hanger, a wheel journaled therebetween, a second tongue-section pivoted between the side plates, a flexible strip connected to the lower surface thereof and projecting between the tongue-sections, and a hooked plate upon the first-mentioned section adapted to engage the strip.

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

JAMES E. WALLACE.

Witnesses:

J. L. STREET,

J. S. EASTMAN.