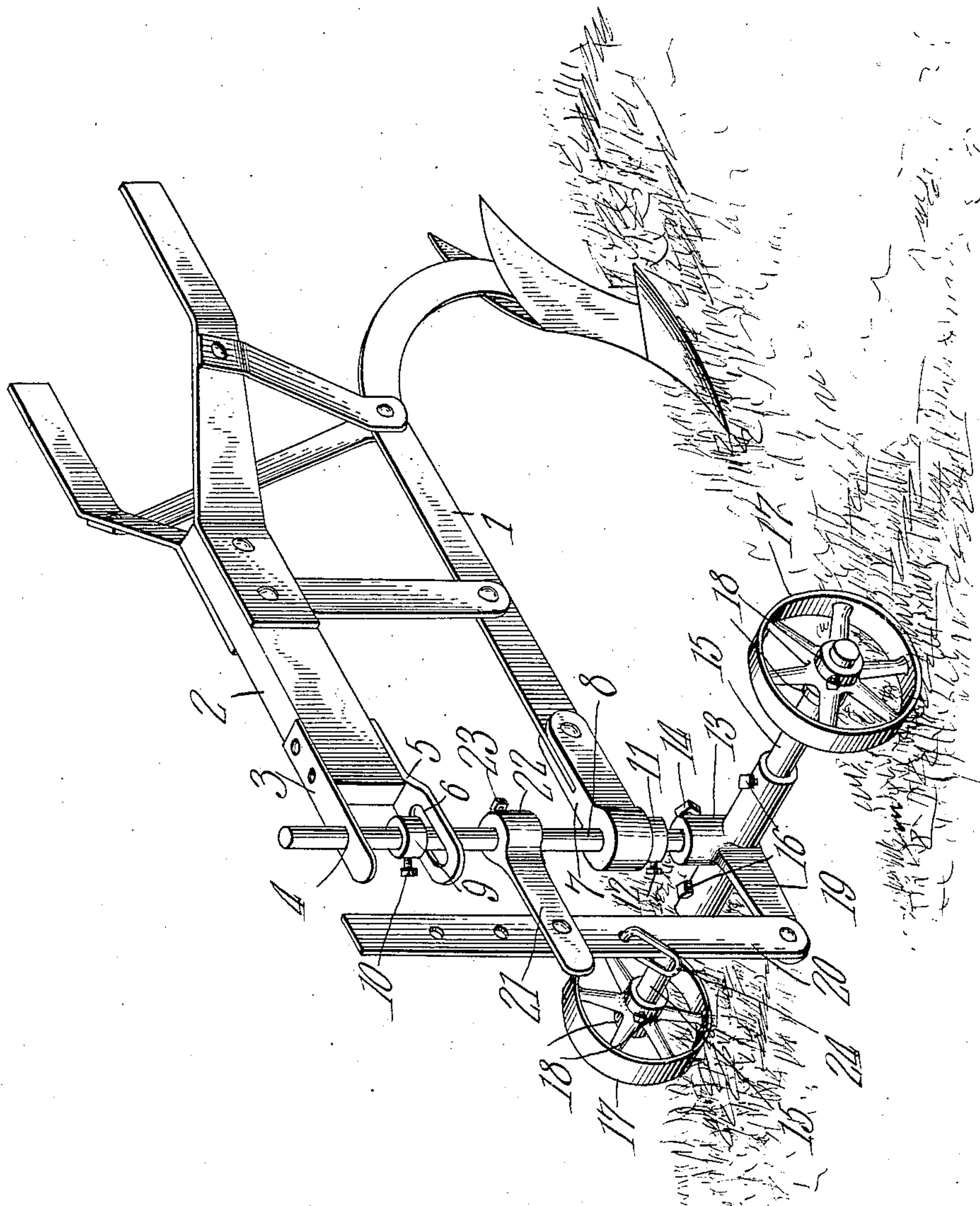


No. 870,451.

PATENTED NOV. 5, 1907.

R. C. MILLS.  
LISTER ATTACHMENT.  
APPLICATION FILED MAY 7, 1907.



WITNESSES:

*E. J. H. H. H.*  
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ATTORNEYS

# UNITED STATES PATENT OFFICE.

RUDOLPH C. MILLS, OF ELDORADO, OKLAHOMA TERRITORY.

## LISTER ATTACHMENT.

No. 870,451.

Specification of Letters Patent.

Patented Nov. 5, 1907.

Application filed May 7, 1907. Serial No. 372,336.

*To all whom it may concern:*

Be it known that I, RUDOLPH C. MILLS, a citizen of the United States, residing at Eldorado, in the county of Greer and Territory of Oklahoma, have invented a new and useful Lister Attachment, of which the following is a specification.

This invention has relation to lister attachments, the object of which is to do away with tongue weight and provide a direct beam pull and which admits of hitching any number of draft animals to the implement.

The attachment may be adjusted in order to regulate the depth at which the listing plow will cut and cause the same to run at a uniform depth. The attachment may be operated as a straddle row which will maintain the implement in proper alinement.

In the accompanying drawing:—the figure is a perspective view of the attachment.

The attachment is intended for a lister plow or what is generally known as a middle buster. Such an implement consists of the beam 1 above which is located the stub tongue 2. The plate 3 is attached to the upper side of the stub tongue 2 and is provided with a circular perforation 4. The plate 5 is attached to the lower side of the stub tongue 2 and is provided with an elongated opening 6 which is disposed in alinement with the longitudinal axis of the said stub tongue. The vertically disposed bearing 7 is pivoted to the forward end of the beam 1, and the shaft 8 is journaled in the said bearing and passes through the opening 6 and the perforation 4. The collar 9 is located upon the shaft 8 and lies between the plates 3 and 5. Said collar may be adjusted longitudinally of the shaft 8 and secured in its adjusted position by means of the set

screw 10. A collar 11 is located upon the shaft 8 below the bearing 7 and may also be adjusted longitudinally of the shaft and secured in its adjusted position by means of the set screw 12. The lower end of the shaft 8 enters the fitting 13 and is secured therein by means of a set screw 14. The spindles 15 also enter the fitting 13 and are secured therein by means of the set screws 16. The wheels 17 are journaled upon the spindles 15 and may be adjusted longitudinally thereof and retained at proper points thereon by means of the adjustable collars 18. The fitting 13 is provided with the forward extension 19 and the lower end of the bar 20 is attached to the said extension 19. The arm 21 is adjustably attached at its forward end to the bar 20 and is provided at its rear end with a collar 22 which also receives the shaft 8 and which is fixed thereon by means of a set screw 23. The clevis 24 is attached to the bar 20 and may be adjusted longitudinally thereof.

Having described my invention what I claim as new and desire to secure by Letters-Patent is:—

In combination with a beam having a bearing and a tongue arranged parallel with the beam and having spaced bearing plates, a shaft journaled in said bearing and bearing plates, a fitting attached to the lower end of the shaft, spindles carried by the fitting, wheels journaled upon the spindles, a draft bar extending parallel with the shaft and being connected with the same and the fitting and an adjustable collar located upon the shaft and lying between the bearing plates of the tongue.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

RUDOLPH C. MILLS.

Witnesses:

W. W. WEY,

I. F. BLACKMAR.