Jan. 10, 1928.

1,655,564

J. M. REES

DRAFT HITCH

Filed Jan. 8, 1927

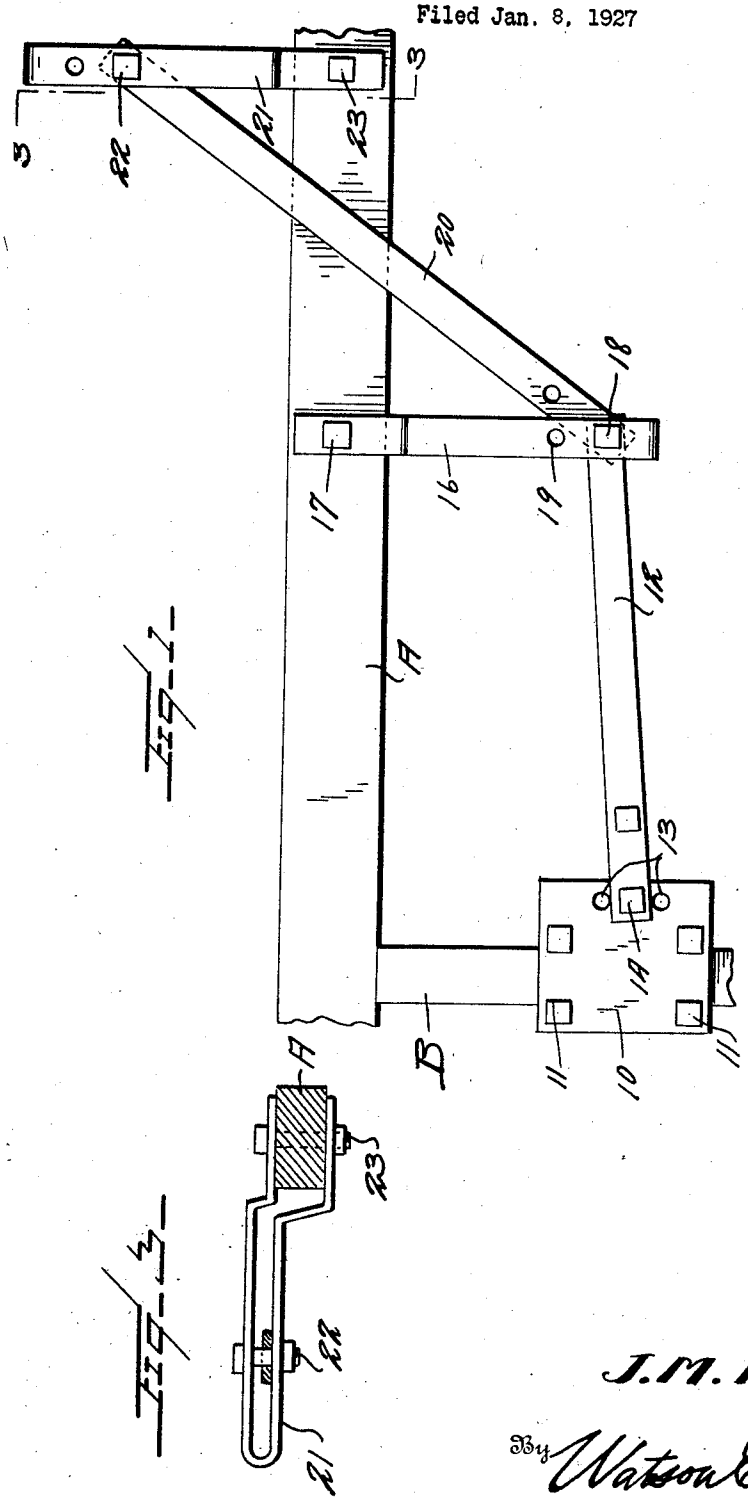


Fig. 1.

Fig. 3.

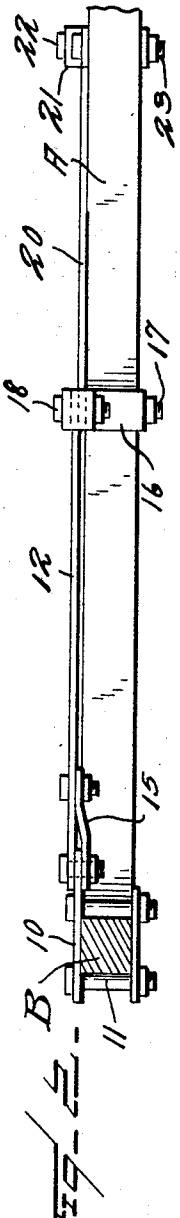


Fig. 2.

Inventor

J. M. Rees

By Watson E. Coleman

Attorney

Patented Jan. 10, 1928. 1,655,564

UNITED STATES PATENT OFFICE.

JAMES M. REES, OF MANHATTAN, KANSAS.

DRAFT HITCH.

Application filed January 8, 1927. Serial No. 159,870.

This invention relates to hitches or draft appliances and particularly to a harvester and binder hitch.

The general object of the invention is to provide a hitch for binders such as the McCormick binder, which will prevent side draft, this side draft being very heavy on all binders.

A further object is to provide a device of this character which is very simple, may be easily applied, and which is adjustable.

My invention is illustrated in the accompanying drawings wherein:—

Figure 1 is a top plan view of a hitch constructed in accordance with my invention;

Fig. 2 is an elevation thereof, the frame B being in section;

Fig. 3 is a section on the line 3—3 of Figure 1.

Referring to these drawings A designates the tongue of a binder and B a portion of the frame thereof. My improved hitch comprises a plate 10 which is clamped upon the frame element B by means of bolts 11 or any other suitable means. Pivoted to this plate 10 which projects forward beyond the frame beam B, is a link 12. The plate 10 is formed with a plurality of apertures 13 and a bolt 14 passes through the rear end of the link and through the desired aperture and also passes through a short iron 15 forming part of and bolted to the link 12. The forward end of the link 12 is pivoted to a brace 16 which is an approximately U-shaped strip of metal, the inner ends of which are spread apart so as to embrace the tongue A. This brace 16 is attached to the tongue by means of the bolt 17. The link 12 is pivotally connected to this brace by means of the bolt 18, the brace being formed with a plurality of apertures 19 through any one of which the bolt 18 may pass. Also pivoted to the bolt 18 is a link 20 which extends over the tongue diagonally thereto, and is pivoted to a lever 21 by a bolt 22. This lever is pivoted to the tongue by a bolt 23. The lever 21 is formed of an approximately U-shaped strip of iron or steel and the link 20 is received between the upper and lower thicknesses of the metal. The free end of the lever 21 is perforated for engagement by a clevis or other draft device.

It will be seen that the parts 12 and 20 constitute draw bars whereby the draft is carried back to the frame of the machine. This device is particularly adapted to take the side draft off of a binder and takes the draft from the tongue and carries it back to the frame. While it is particularly adapted for a McCormick binder, it is not limited to this use as it may be used on all binders of the same general type or on machines of the same general character, such as harvesters.

It is pointed out that the clamp 10 can be adjusted in or out on the reamer so as to put the draft in the proper place and take draft away from the tongue and transmit it to the frame so as to equalize the draft. The arms 16 and 21 are pivoted upon the tongue and thus there will be no draft on the tongue whatever. An equalizer or evener will, of course, be applied to the member 21 by the usual clevis. It will be understood that I have illustrated the tongue and a portion of the frame diagrammatically and that the parts A and B are intended to represent or typify the usual tongue and frame for a harvester.

I claim:—

In combination with a binder having a frame and a draft tongue disposed at a right angle to the frame, a plate mounted upon the frame beyond one side edge of the tongue, braces spaced from each other and from the plate and pivotally mounted upon the tongue, said braces being disposed one beyond one side edge of the tongue and the other beyond the opposite side edge thereof, that brace which is adjacent the plate being disposed beyond the same side edge of the tongue, a link pivotally connecting the plate with the free end of the adjacent brace and a link pivotally connecting the free end portions of both of the braces together and disposed obliquely across the tongue.

In testimony whereof I hereunto affix my signature.

JAMES M. REES.