(No Model.)

J. M. JACOBSEN.

POLE AND SHAFTS.

No. 326,987. Patented Sept. 29, 1885.

Fig. 1.

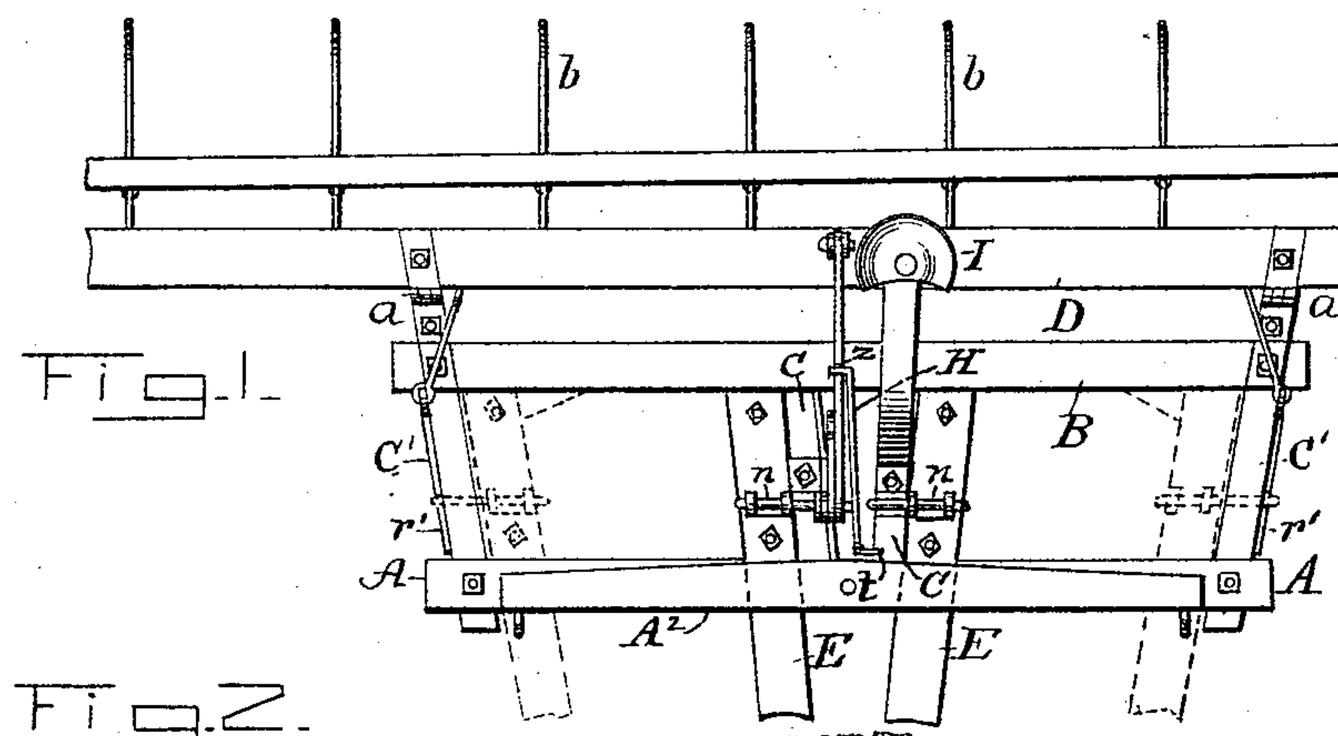


Fig. 2.

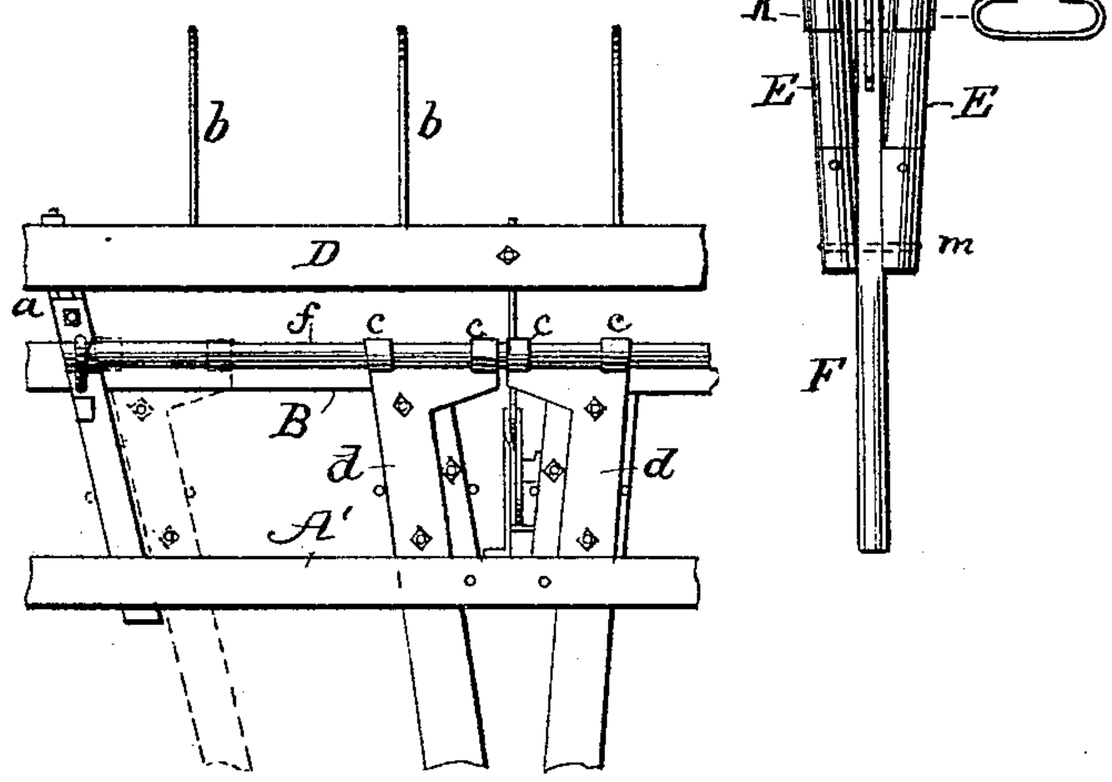


Fig. 3.

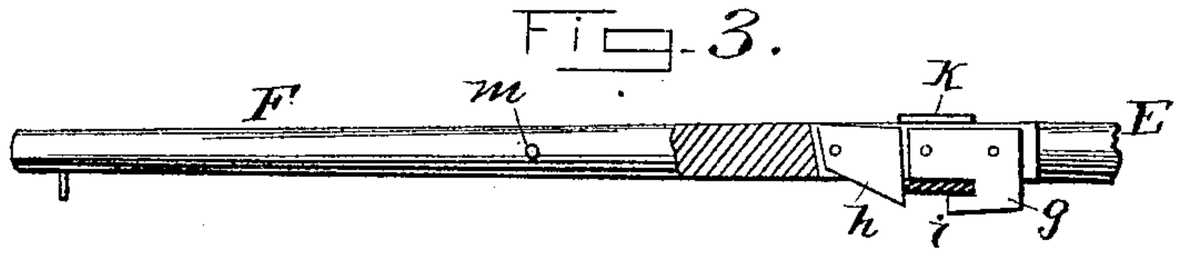


Fig. 4.

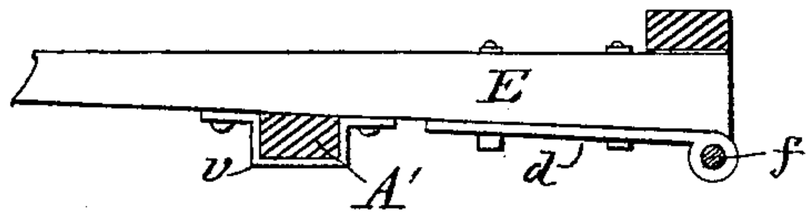


Fig. 5.

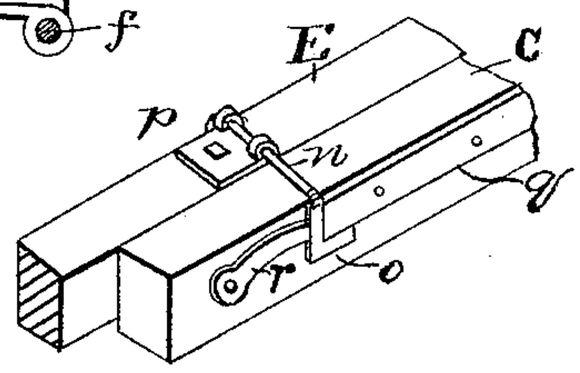
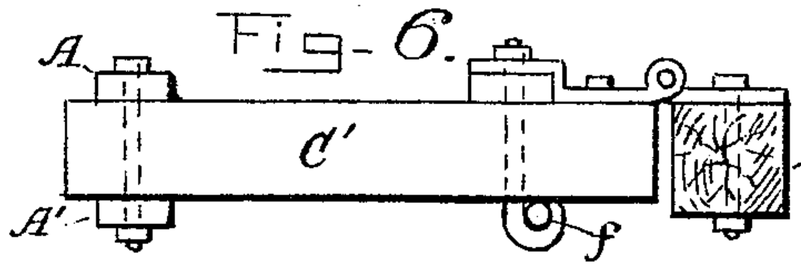


Fig. 6.



WITNESSES:

H. A. Clark

H. A. Daniels

INVENTOR.

James M Jacobsen

By W. Burri

Atty.

UNITED STATES PATENT OFFICE.

JAMES MONDY JACOBSEN, OF PRESTON, IOWA, ASSIGNOR OF ONE-HALF TO RICHARD M. ESSECK, OF SAME PLACE.

POLE AND SHAFTS.

SPECIFICATION forming part of Letters Patent No. 326,987, dated September 29, 1885.

Application filed August 9, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. JACOBSEN, a citizen of the United States of America, residing at Preston, in the county of Jackson and State of Iowa, have invented certain new and useful improvements in means for adapting machines and vehicles to be drawn by either one or two horses, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to means for adapting a machine or vehicle to be drawn by either one or two horses; and it consists of the construction and combination of such means as hereinafter fully set forth and as claimed. While my invention is applicable to any machine or vehicle designed to be drawn by either one or two horses, it is illustrated in this application as applied to a horse hay-rake.

In the accompanying drawings, Figure 1 is a plan view of my improved devices attached to a horse hay-rake. Fig. 2 is a partial plan of the under side of the devices. Fig. 3 is a sectional view of the forward part of the tongue. Fig. 4 is a detail view showing a modification of devices for retaining the shafts in position. Fig. 5 is a perspective view of one of the shaft-locking devices. Fig. 6 is an end view showing the shaft-frame attached to the rake-beam.

The main frame of the machine has the horizontal front bars, A and A′, placed one above the other and connected with a rear bar, B, by the central pieces, C, and side pieces, C′. The frame is coupled at *a* to the rake-beam D, which has the teeth *b* and also the axle of the supporting-wheels secured thereto.

E indicates the shafts, to the under sides of which, at their rear ends, are bolted the plates *d*, formed with eyes *c*, through which passes a rod, *f*, which is fastened at its extremities to the lower side of the frame. The shafts extend forward between the front bars, A and A′, and may be moved laterally along the rod *f*, for the purpose hereinafter set forth.

F is a tongue-point or supplementary piece which forms the foremost part of the tongue when the draft devices are adjusted for the attachment of two horses. At the rear end of said piece is fastened a plate, *g*, and a dog, *h*. is pivoted in a slot just forward of plate *g*, (See Fig. 3.) In adjusting the parts to form a tongue the shafts are moved to a central position close against the frame-pieces C, as seen in Fig. 1. The tongue-piece F is then placed between the free ends of the shafts, which are closed against it, and a band, *k*, is placed on the shafts and pushed back until it is caught by a catch, *i*, on the lower edge of plate *g*. The band *k* has an opening in its upper part so that it does not extend over the dog *h* but incloses both shafts, and when the band is adjusted in place it is locked by the dog, which falls into position, as shown in Fig. 3. A pin, *m*, fixed in tongue-piece F, extends into apertures in the shafts when the parts are brought together. The shafts are locked in place to the frame by means of the lock-rods *n*, each of which is constructed to embrace a shaft and a frame-piece, and has at its extremities the rectangular hooks *o*. Each lock-rod is coupled to a shaft, and when the latter is locked to a frame-piece the lock-rod is turned down over both parts, and hook *o* is closed against a shoulder or block, *q*, and is secured by a pivoted dog, *r*, as seen in Fig. 5.

When it is desired to change the draft devices from a tongue to shafts for a single horse, the dog *h* is lifted and the band *k* and tongue F removed. The dogs *r* are then raised and the lock-rods *n* are turned up. The shafts may then be moved away from frame-pieces C and closed against side pieces, C′, when they may be locked thereto by means of the lock-rods and the dogs *r′* on the side pieces. In Fig. 1 the shafts are indicated in dotted lines locked to the side pieces of the frame.

The shafts may be retained in position by means of straps *v*, inclosing front bar, A′, as shown in Fig. 4, and with such construction the bar A may be dispensed with.

A^2 indicates a whiffletree, which answers the purpose of a doubletree when two horses are attached.

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

1. The combination, with a frame constructed to carry laterally-adjustable poles and

shafts, and provided with the end and central pieces, C C′, as herein set forth, of the rod *f*, attached to the frame, the shaft E, provided with the plates *d*, having eyes *c*, constructed to receive and slide loosely on the rod, and the lock-rods *n*, attached to the shafts and adapted to lock them in position to the pieces C C′, substantially as and for the purposes described.

2. The combination, with the laterally-adjustable shafts E, of the removable tongue-piece F, the pivoted dog *h*, the catch *i*, and the band *k*, substantially as and for the purposes described.

3. The combination, with a frame adapted to carry laterally-adjustable poles and shafts, as herein set forth, of the adjustable shafts E, the plates *d*, attached to the shafts and having eyes *c*, the rod *f*, attached to the frame, the lock-rods *n*, the blocks *q*, and the pivoted dogs *r*, substantially as and for the purposes described.

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

JAMES MONDY JACOBSEN.

Witnesses:

B. F. McMANIGAL,

H. JENKINS.