No. 763,631. PATENTED JUNE 28, 1904.

D. T. PHILLIPS.

CORN SHOCK LOADER.

APPLICATION FILED JAN. 6, 1904.

NO MODEL.

Fig. 1

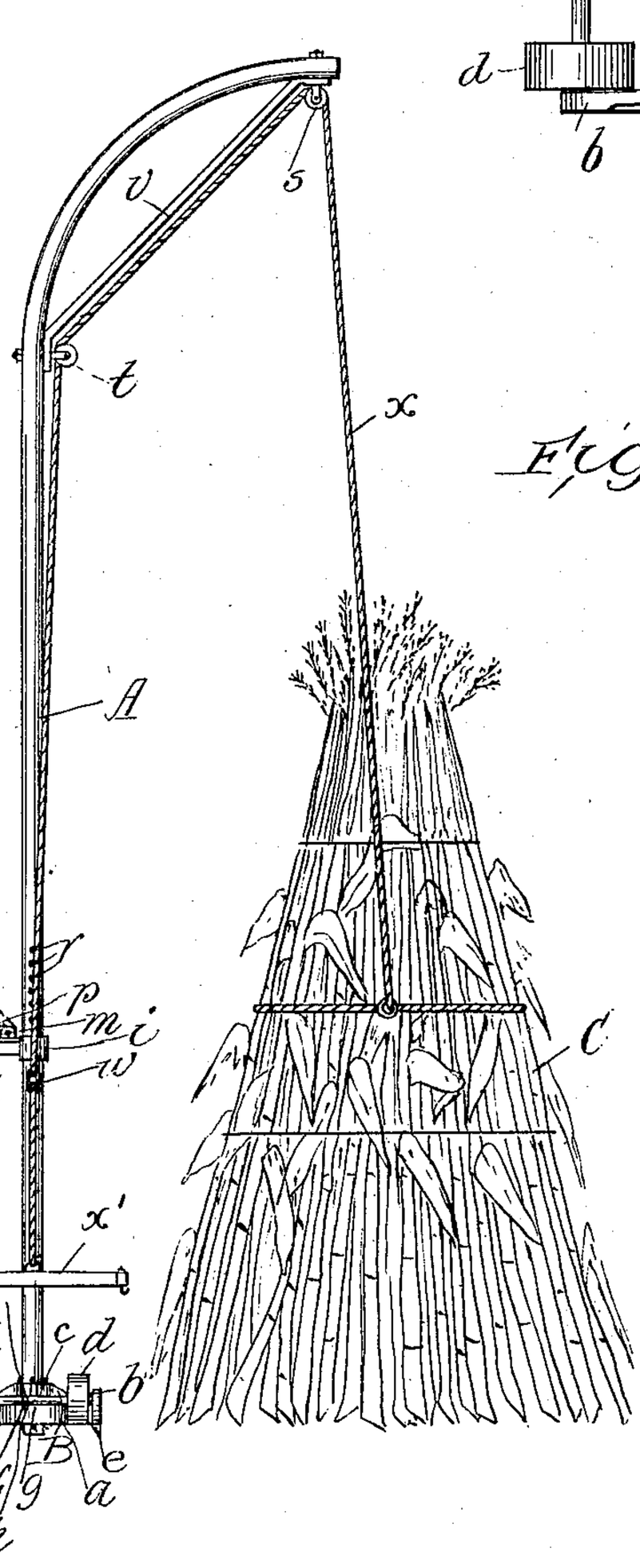


Fig. 2

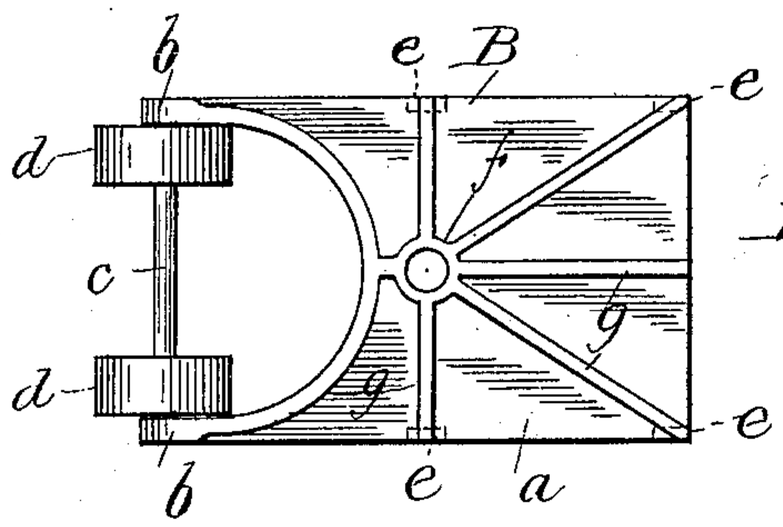


Fig. 3.

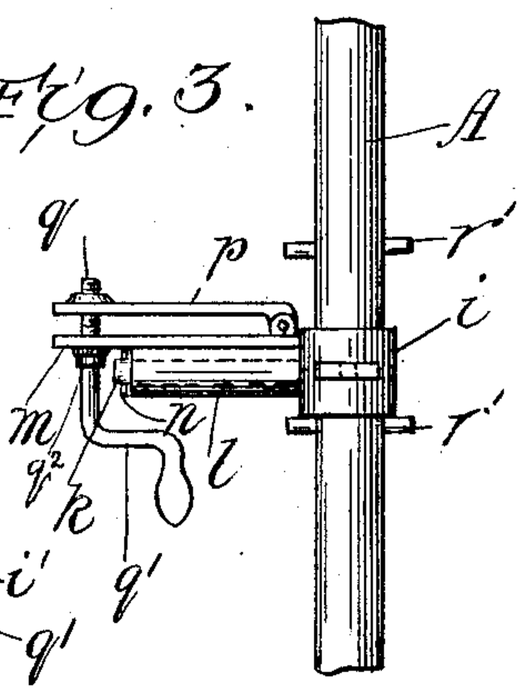
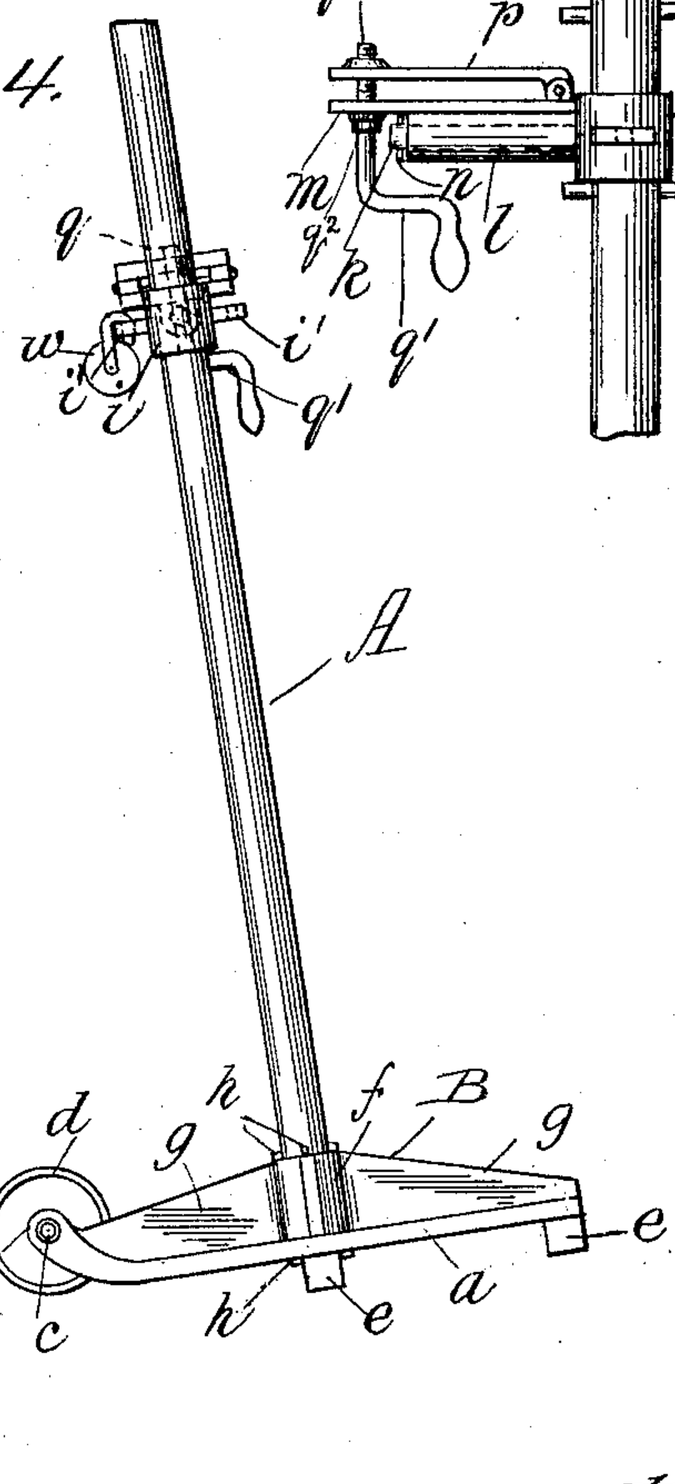


Fig. 4.



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No. 763,631. Patented June 28, 1904.

UNITED STATES PATENT OFFICE.

DARIUS T. PHILLIPS, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF TO FRANK C. STEVENS, OF CHICAGO, ILLINOIS.

CORN-SHOCK LOADER.

SPECIFICATION forming part of Letters Patent No. 763,631, dated June 28, 1904.

Application filed January 6, 1904. Serial No. 187,948. (No model.)

To all whom it may concern:

Be it known that I, DARIUS T. PHILLIPS, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Corn-Shock Loader, of which the following is a specification.

My object is to provide a transportable derrick device of improved construction for use in the field to facilitate the loading upon wagons of corn-shocks or the like.

In the drawings, Figure 1 is a view of my improved shock-loader in operation; Fig. 2, an enlarged plan view of the base of the device; Fig. 3, an enlarged broken section of the derrick-leg, showing means for clamping the device to a wagon; and Fig. 4, a broken elevation of the lower part of the device, showing the position it assumes while being dragged across the field.

A is a mast or derrick-leg, which may, as shown, be in the form of a ship's davit, and B a base. The base comprises a suitable heavy casting or the like formed with a plate portion *a*, having a recessed forward edge presenting upturned bearing-arms *b b* for the shaft or axle *c*. On the shaft *c* are rollers *d*, which may be journaled upon the shaft or fixed upon a rotating shaft *c*, whereby they operate as one roller. Cast integral with the base, at the under surface thereof, are preferably pointed or sharpened lugs *e*, which may be disposed as shown. At the center of the plate is a boss *f*, presenting a bearing-opening to receive the lower end of the leg A. The plate is reinforced on its upper side with suitable ribs *g*. The mast at its lower end portion turns freely in the bearing at the boss *f* and is held removably in place by pins *h*, passing transversely through the leg above and below the plate-surfaces. Surrounding the leg A and vertically adjustable thereon is a sleeve-piece *i*, provided with a laterally-extending arm or shaft *k*. Journaled upon the arm *k* is a sleeve-piece *l*, formed at its upper side with an integral plate *m*. The parts are held in position by a pin or cotter *n*, passing through the arm *k* at the end of the sleeve. The plate *m* forms one jaw of a clamp, the other jaw being formed by a plate *p*, hinged at one end to the plate *m*, a screw *q* passing through openings in both the plates near the free ends of the latter. The screw is provided with a crank-arm *q'* and shoulder q^2, and the opening in the plate *p* is threaded, while the opening through the plate *m* is plain. Thus in the turning of the crank the shoulder q^2 engages the plate *m*, and the plate or jaw *p* is moved up and down to clamp the device to a strip forming part of a wagon-body. In the leg A is a series of openings *r* to receive pins *r'* to extend above and below the surface of the sleeve *i*. On opposite sides of the sleeve-piece *i* are perforated ears *i''*. At the upper laterally-projecting end of the leg A is a pulley *s*, and a pulley *t* is provided at the upper part of the straight portion of the leg, as shown. A brace *v* extends across the bowed part of the leg between the pulleys *s* and *t*. A removable pulley *w* is provided with a hook, whereby it may be attached to either of the ears *i''*. Extending over all the pulleys is a rope *x*, having a whiffletree *x'* connected with one end.

In operation the device is attached to a strip forming part of the rack of a wagon—for example, of the hay-wagon type. The sleeve portion *i* may be adjusted to any desired height on the leg and confined by pins above and below it, as described, to have a limited movement thereon. The attaching of the device to a wagon is accomplished by turning the screw *q* to free the end of the clamping-jaw *p*, then causing the clamping-jaws to embrace the strip on the wagon and tightening the clamp by means of the screw. The base B should rest with the roller or rollers at the forward end. When the wagon is moved forward, the leg A will be tipped forward, raising the rear portion of the base so that it will rest altogether upon the rollers, after which the device will travel upon the rollers with the wagon. When a shock C is reached, the wagon may be backed slightly to permit the base to rest flatwise upon the ground, with its points *e* embedded therein. The part of the rope *x* hanging from the pul-

ley *s* is then attached to the shock. A horse hitched to the whiffletree *x'* may then be caused to draw upon the rope to raise the shock to the desired level, when the leg may be turned upon the base B to swing the shock over the wagon and the horse backed to lower the shock upon the wagon-rack. If desired, the rope *x* may be operated by other means than a horse, as described—as, for example, by a small windlass connected with the leg or directly with the wagon-body. Where a horse is employed, he would be turned after a shock is loaded to walk beside the wagon to the next shock.

My improved shock-loader forms a convenient and desirable device for farm use which may be readily connected with or disconnected from a wagon and may be readily moved about as desired from place to place.

While I prefer to construct my improved shock-loader throughout as shown and described, it may be variously modified in the matter of details without departing from the spirit of my invention as defined by the claims.

What I claim as new, and desire to secure by Letters Patent, is—

1. A corn-shock loader, comprising, in combination, a base provided at one side with a roller, a derrick-leg on the base, shock engaging and raising means on the leg, and means on the leg for its attachment to a wagon, or the like, whereby, in the forward movement of the wagon, the loader is tipped to rest at its base altogether upon the roller, substantially as and for the purpose set forth.

2. A corn-shock loader, comprising, in combination a base provided at one side with a roller, a derrick-leg rotatably mounted upon the base, shock engaging and raising means on the leg, and means on the leg for its attachment to a wagon, or the like, whereby in the forward movement of the wagon the loader is tipped to rest at its base altogether upon the roller, substantially as and for the purpose set forth.

3. A corn-shock loader, comprising, in combination, a base provided at one side with a roller, a derrick-leg rotatably mounted upon the base, and wagon clamping means pivotally connected with the leg, whereby the loader may be attached to a wagon to be drawn thereby along the field, and, in the forward movement of the wagon, the loader is tipped to rest at its base altogether upon the roller, substantially as and for the purpose set forth.

4. A corn-shock loader, comprising, in combination, a base provided at one side with a roller, a derrick-leg mounted upon the base to swing horizontally on a vertical axis and having a laterally-projecting upper part, wagon clamping means pivotally connected with the leg to tip and drag the loader upon said roller in the forward travel of the wagon, pulleys toward the upper and lower end portions of the leg, and a rope running over said pulleys, adapted at one end for attachment to a shock, and provided at its opposite end with means for attachment to a draft-animal, substantially as and for the purpose set forth.

DARIUS T. PHILLIPS.

In presence of—
WALTER N. WINBERG,
J. W. DYRENFORTH.