

No. 618,493.

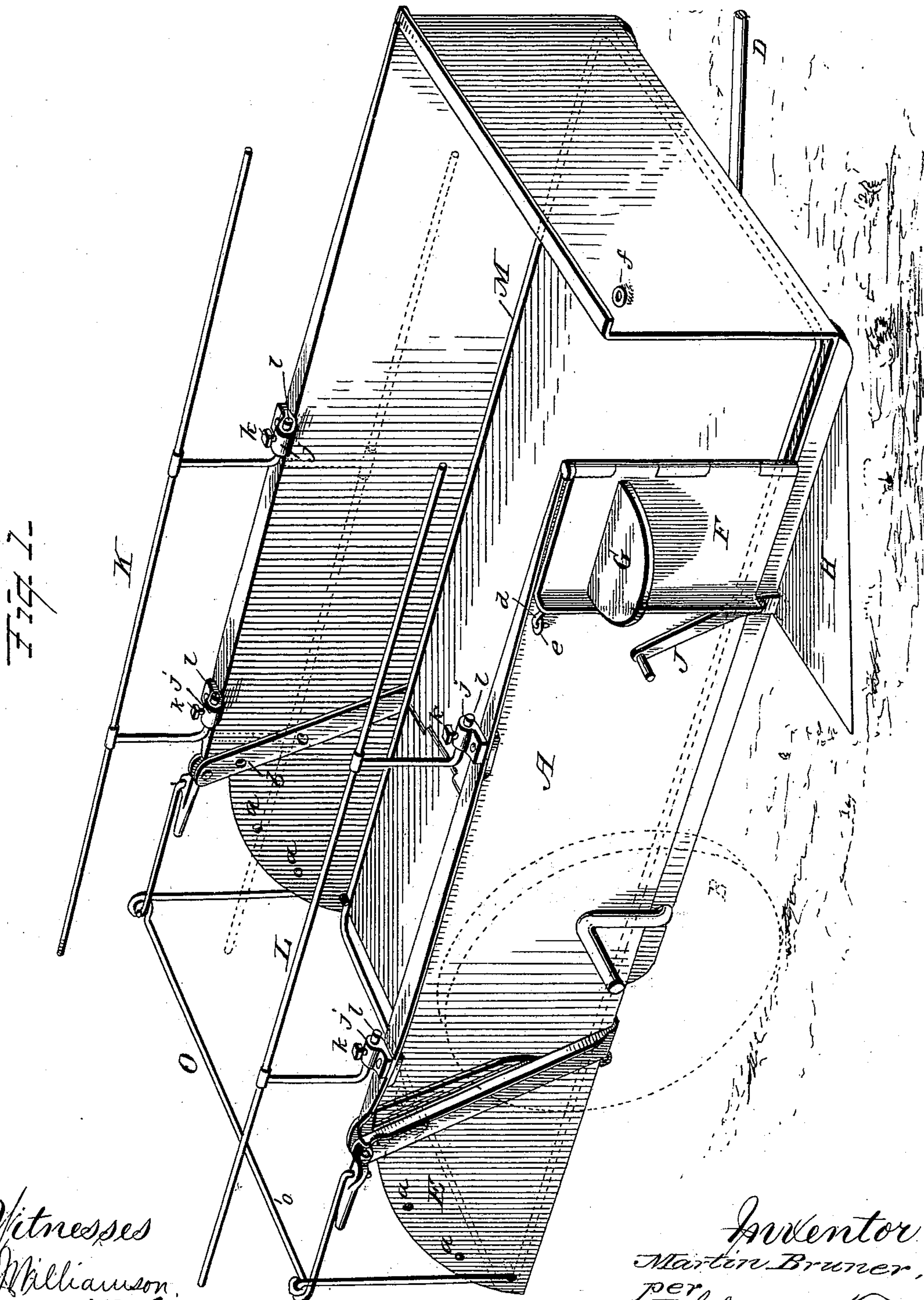
Patented Jan. 31, 1899.

M. BRUNER.  
CORN HARVESTER.

(Application filed July 8, 1898.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses  
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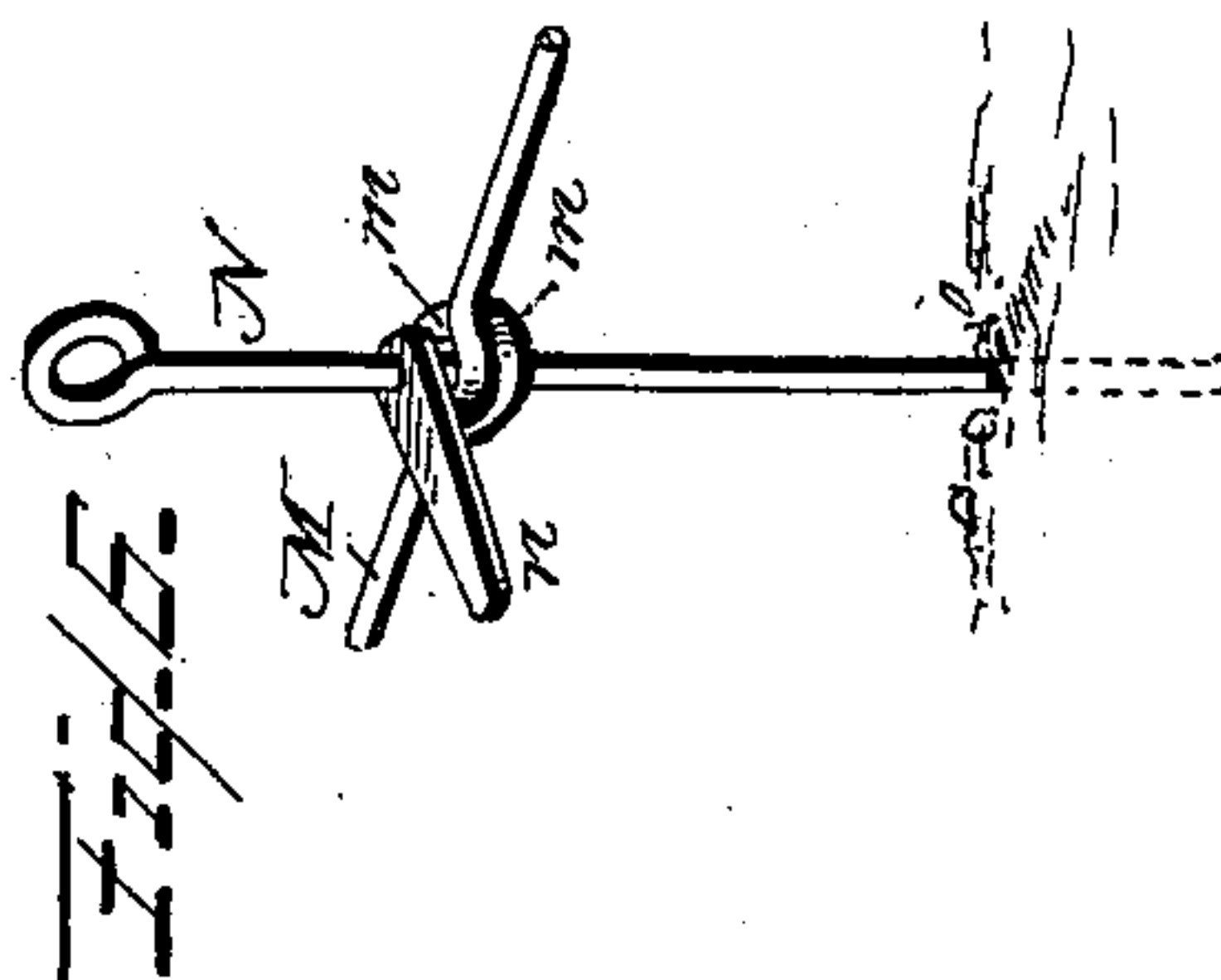
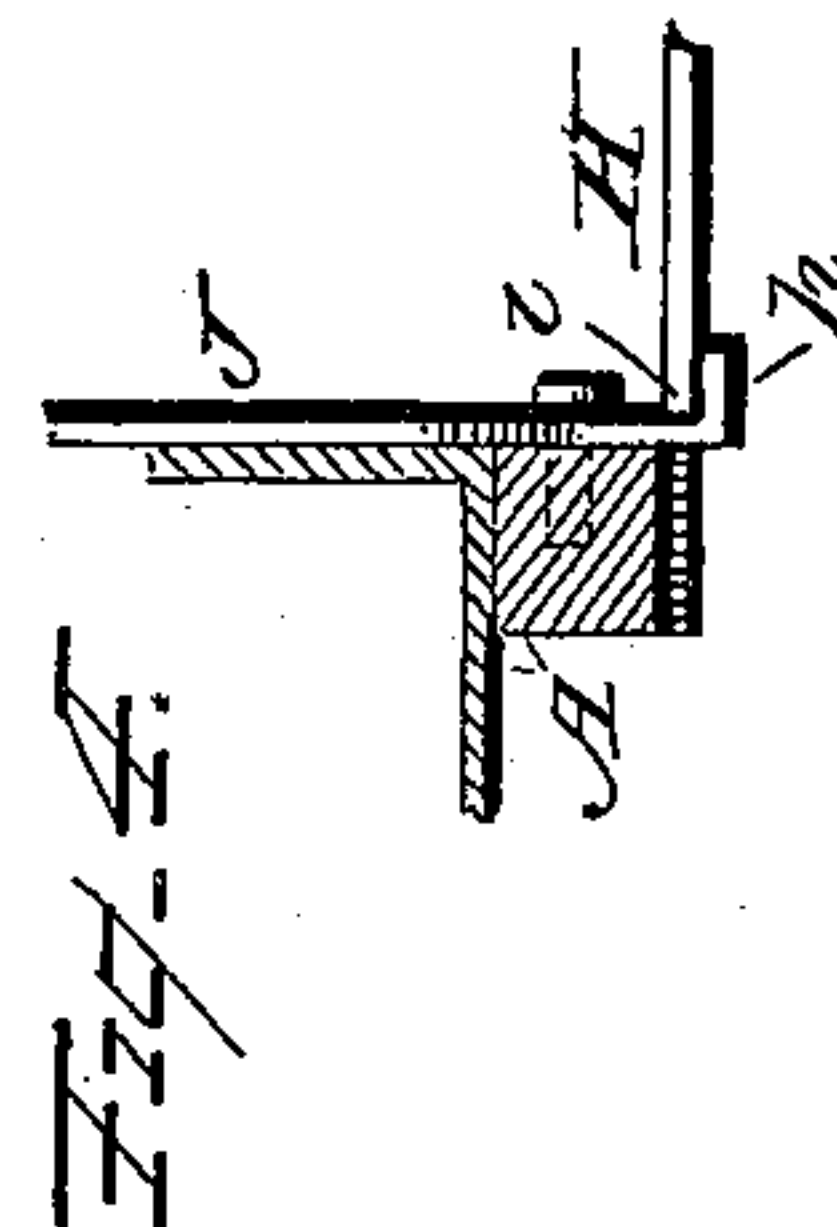
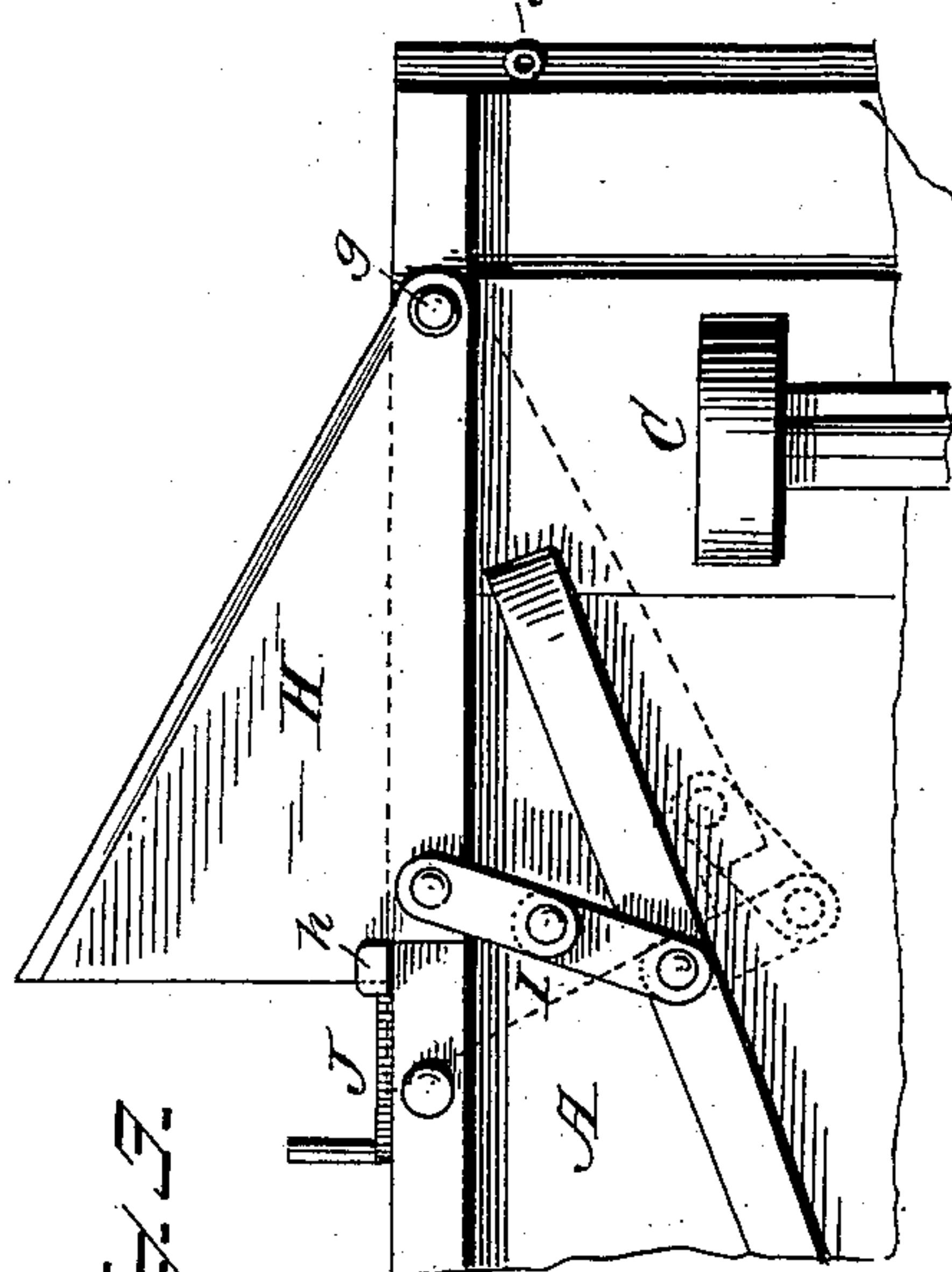
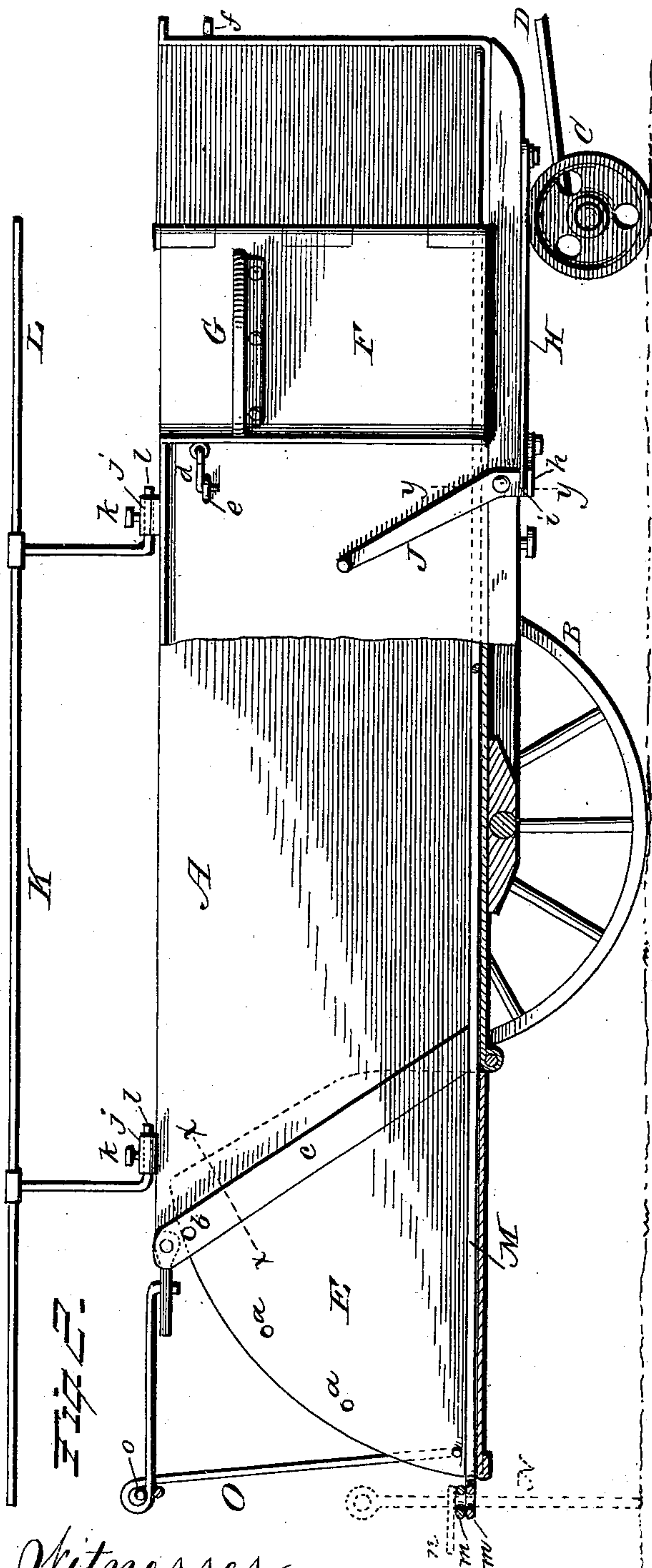
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**2 Sheets—Sheet 2.**



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# UNITED STATES PATENT OFFICE.

MARTIN BRUNER, OF BUCKLAND, OHIO.

## CORN-HARVESTER.

SPECIFICATION forming part of Letters Patent No. 618,493, dated January 31, 1899.

Application filed July 8, 1898. Serial No. 685,421. (No model.)

*To all whom it may concern:*

Be it known that I, MARTIN BRUNER, a citizen of the United States, residing at Buckland, in the county of Auglaize and State of Ohio, have invented certain new and useful Improvements in Corn-Harvesters; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters of reference marked thereon.

The present invention has relation to that class of corn-harvesters provided with a platform or wagon-body to receive the stalks as they are cut; and the object thereof is to improve the general construction of such class of harvesters, whereby the same will be rendered more effective in handling the stalks and removing them from the machine in shocks and also rendering the machine easily and effectively operated, as well as possessing strength and durability.

The invention therefore consists in a corn-harvester constructed substantially as shown in the drawings and hereinafter described and claimed.

Figure 1 of the drawings is a perspective view of a corn-harvester constructed in accordance with my invention; Fig. 2, a side elevation, partly in longitudinal section; Fig. 3, a detail under plan view showing the cutting-knife and its connections; Fig. 4, a detail sectional view taken on line *yy* of Fig. 2; Fig. 5, a similar view taken on line *xx* of Fig. 2; Fig. 6, a detail view in perspective of the stake and its connections.

In the accompanying drawings, A represents a wagon-body adapted to receive the cornstalks as they are cut, which body may be constructed of either metal or wood and of any preferred size and shape. The body may be mounted upon the large wheels B near its rear end, and near its front end are provided truck-wheels C and the usual tongue D, all of which may be of any preferred construction best adapted to the purpose.

At the rear of the body A is a hinged end-gate E, which is adapted to be let down on the same horizontal plane with the bottom of the body when in use as a corn-harvester, as shown in Figs. 1 and 2 of the drawings, there-

by lengthening the bottom of the body to increase its holding capacity.

The gate E may be provided with any suitable means for holding it at any angle with relation to the end of the body A or in a closed position to adapt the body for other uses, such as loading grain or for other similar purposes. Any suitable and well-known means may be employed for holding the end-gate either closed or open, and there is shown in the present instance a series of perforations *a* in the sides of the gate, which are adapted to register with similar holes *b* in the sides of the body A or through the braces *c*, and with these holes, when registering with one another, a suitable pin engages, which will hold the gate either closed or opened.

Near the front end of the body A and upon the side thereof is a hinged door F, which is provided upon its inner side, when in a closed position, with a suitable seat G for the workman who takes the stalks as they are cut and hands them to the person standing in the body A of the machine, whose work is to stack them as the stalks are received from the one upon the seat. In the working position of the harvester the door is open, as shown, the seat G then being upon the outside of the body A and held in such position by the hook *d* engaging with an eye *e*, and in like manner the door is held closed by the hook engaging with the eye *f* upon the front end of the body. Any suitable and well-known means may be employed for holding the door in a closed or open position, as found most desirable.

The cutting-knife H is pivoted at *g* and when brought into working position is directly under the door F when open, so that when the workman is upon the seat G his feet can rest upon the knife.

The cutting-knife H is connected with a toggle-jointed bar I upon the under side of the body A, as shown in Fig. 3 of the drawings, which forms a strong and durable connection for the knife and holds it stationary when in a working position and prevents any sidewise motion of the knife. As a further means of locking and holding the knife in an extended or working position a locking-lever J is provided, which lever is pivoted to the side of the body A and at its lower end has an out-



wardly-extending flange *h* to engage with the shoulder *i* upon the knife *H*, as shown more clearly in Fig. 4 of the drawings.

Suitable supports *K L* are provided to adapt the body *A* to the varying heights of the stalks, so that the height of the sides of the body may be extended as circumstances require. These supports are preferably constructed of wire, although other material may be used, and are both pivotally and detachably connected to the sides of the body by any means found most desirable. There is shown one of many means by which said supports may be detachably and pivotally connected to the sides of the body, which in the present instance consists of spring clips or sleeves *j* and screws *k* for tightening the spring-clips around and upon the ends *l* of the supports, thereby holding the supports either in an upright position or at an angle to a perpendicular or down against the inner sides of the body *A*, as shown in dotted lines of Fig. 1 of the drawings.

When the body *A* is desired for use as a wagon for hauling grain or for other like purposes, the supports *K L* may be removed by loosening the screws *k* and slipping out the ends *l* from engagement with the spring clips or sleeves *j*.

A shocking-frame *M* is provided, which is preferably constructed of wire and is of a width and length to correspond with the width and length of the body *A*, together with that of the end-gate *E* when said gate is let down to a horizontal position. This frame rests upon the bottom of the body and that of the end-gate, and its ends are disconnected and terminate in eyes *m* to receive a suitable stake *N*, which stake is provided with a horizontal arm *n* for the foot, by which said stake can be quickly forced into the ground. A wire frame *O* to form a support for the shock at the rear end of the body or at the outer end of the gate *E* is preferably constructed of wire and may be of any suitable form or shape, but detachably connected to the body and end-gate to enable its removal when not required for use. The horizontal arm *o* of the supporting-frame *O* may be also rendered detachable to enable the shock to be removed through the end-gate.

In the position shown in Figs. 1 and 2 of the drawings the several parts are adjusted and in position for harvesting, the shocking-frame *M* and the supporting-frame *O* being in position, as shown. After a sufficient number of stalks are cut and placed in the body *A* of the machine to form a shock said shock is then tied in the usual manner and the machine driven to the place of deposit. The stake *N* is now passed through the eyes *m* of the shocking-frame and then forced into the ground by foot-pressure upon the arm *n*, thus anchoring the shocking-frame to the ground. The horizontal arm *o* is now removed from the frame or detached from one of its supports and the machine driven forward, the

frame *M*, which encircles the shock, depositing it upon the ground. After the shock has been deposited upon the ground the stake is removed and the shocking-frame replaced in the bottom of the body *A* and the arm *o* properly attached to the frame *O*, after which the machine is ready to again harvest another shock and deposit it, as before described.

It is evident that many changes and modifications may be made in the several details of construction without departing from the essential features of the invention, such as the modification of the end-gate and means of adjusting it and holding it in position, as the construction of the supports *K* and *L*, the cutting-knife and its connections, also the end supporting-frame *O*, as well as the stake *N*, may be variously modified or changed without departing from the principle of the invention.

It may be advisable to provide other means than that shown for rendering the supports *K* and *L* adjustable and enabling them to be detached, the means shown being one in many that may be used with equal effectiveness. Therefore such modifications or changes as would come within ordinary mechanical skill may be resorted to without in any manner affecting the practical workings of the several features referred to.

If preferred, the axle may be in the form of a crank or that portion to which the wheels are attached disposed above the bottom of the body *A*, as shown in Fig. 1 of the drawings, thereby admitting of much larger wheels being used, while bringing the body nearer the ground for the effective work of the cutting-knife.

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

1. A corn-harvester, consisting of a suitable body for containing the shocks, a pivoted cutting-knife with means for holding it in a working position, a hinged and adjustable gate at the rear end of the body, and near the front and upon the side thereof a suitable hinged door with seat connected thereto, substantially as and for the purpose set forth.

2. In a corn-harvester, a suitable body and an adjustable end-gate connected thereto, a shocking-frame adapted to rest upon the bottom of the body and removable therefrom, and a detachable end frame for supporting the shock at the rear end of the body and gate, substantially as and for the purpose set forth.

3. In a corn-harvester, a pivoted cutting-knife, a toggle-jointed arm connecting the knife with the body of the harvester, and a pivoted locking-lever having a flange at its lower end to engage a shoulder on the knife to hold said knife in an extended or working position, substantially as and for the purpose set forth.

4. A corn-harvester, consisting of a suitable body to carry the shocks, a cutting-knife,



5 a hinged door provided with a seat for the  
workman, suitable supports for the shock de-  
tachably and adjustably connected to the  
body, a hinged end-gate, a removable shock-  
ing-frame adapted to rest upon the bottom of  
the body, and a detachable supporting-frame  
at the rear end of the body, substantially as  
and for the purpose specified.

In testimony that I claim the above I have  
hereunto subscribed my name in the presence 10  
of two witnesses.

MARTIN BRUNER.

Witnesses:

GEO. M. COPENHAVER,  
WM. H. DE LACY.