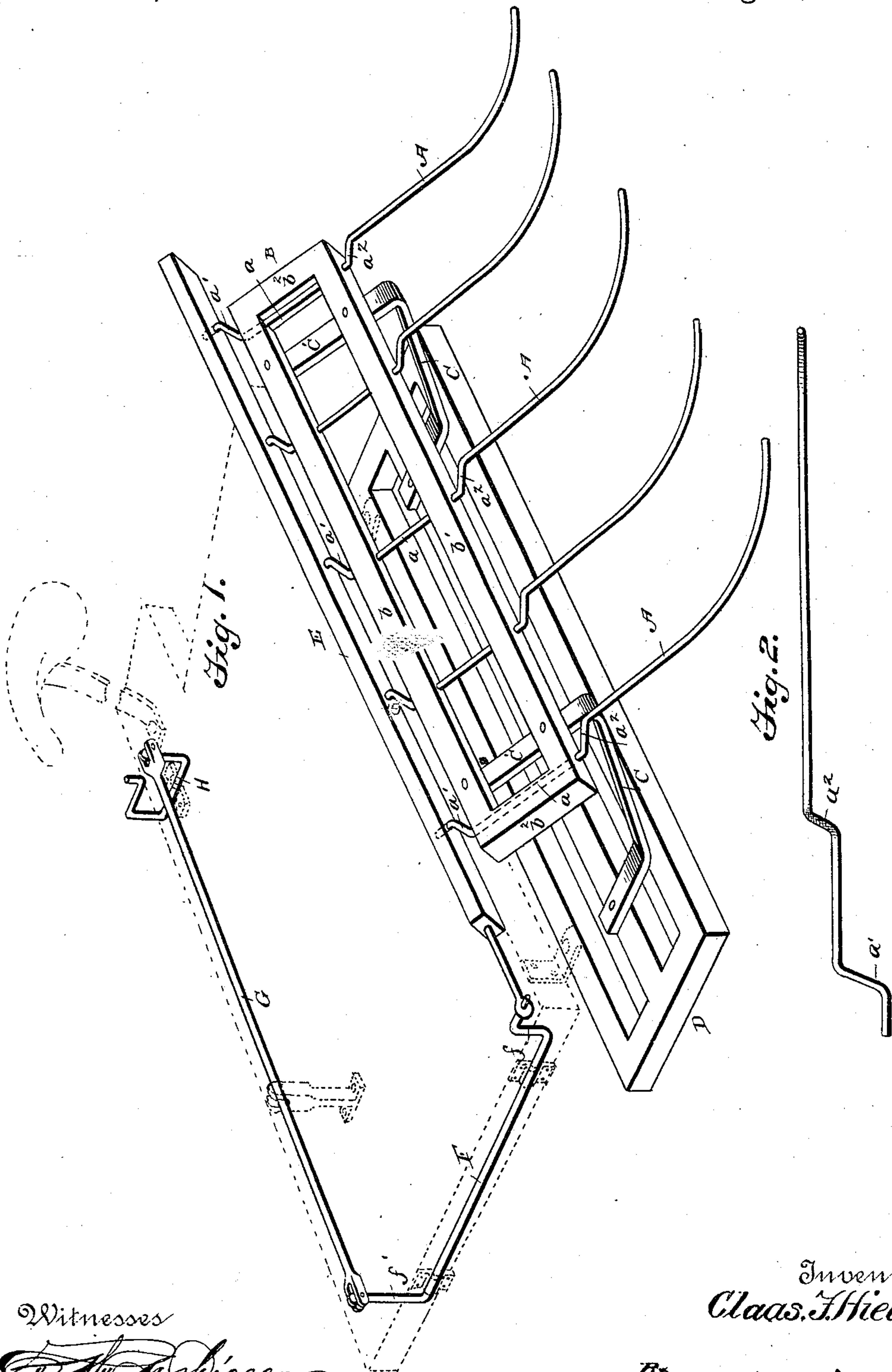


(No Model.)

C. F. HIEBERT.
SHEAF CARRIER.

No. 433,924.

Patented Aug. 5, 1890.



Witnesses
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UNITED STATES PATENT OFFICE.

CLAAS F. HIEBERT, OF WINDOM, MINNESOTA.

SHEAF-CARRIER.

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To all whom it may concern:

Be it known that I, CLAAS F. HIEBERT, a citizen of the United States, residing at Windom, in the county of Cottonwood and State of Minnesota, have invented certain new and useful Improvements in Bundle-Carriers for Harvesters; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention is an improvement in bundle-carriers for harvesters—that is to say, carriers which receive the bundles as they drop from the binder and support such bundles until a sufficient number have accumulated to form a shock when the said bundle may be dropped.

The invention consists in the novel construction of the carriers, as will be hereinafter described, whereby the weight of the bundles will automatically dump the carrier when the devices for holding the fingers of such carrier are released; and the invention consists, further, in certain details of construction and novel combination of parts, as will be hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective view of the improved bundle-carrier, and Fig. 2 is a detail view of one of the fingers.

In carrying out my invention I support the fingers A properly below the discharge end of the binder, so that they will receive the bundles therefrom, and I curve such fingers upward toward their outer ends to enable them to carry the bundles. In supporting the fingers A, I provide what may be called the "carrier-frame" B, which is mounted by standards C on the main harvester-frame D, a portion of which is shown in Fig. 1. The carrier-frame B is preferably made with inner and outer side bars $b b'$, and with end bars b^2 connecting the same, and is supported on arms C' of standards C, which arms C' extend between and are connected to both inner and outer side bars $b b'$, and so operate to brace as well as to support the carrier-frame. It will be noticed that the carrier-frame is supported at an angle inclining downward toward its outer side, as shown in Fig. 1.

The fingers A are of a special construction,

and are, by preference, each made from single rods of metal. I form these fingers with axle portions a , which journal in the carrier-frame with cranks a' at the inner side of such frame and with cranks a^2 at the outer side of the carrier-frame, the relations of such cranks $a' a^2$ being most clearly shown in the detail sectional view in Fig. 2. The cranks a^2 , it will be noticed, project upward, and when the fingers are in position to receive the bundles, are inclined rearwardly at an angle of about forty degrees to the vertical, the main portions of the fingers extending forward from the upper ends of cranks a^2 , as shown. Now this construction and arrangement of the axles a , cranks a^2 , and main portions of the fingers is such that the weight of the bundles resting on the fingers has a tendency to turn the fingers on axles a , so as to cause the outer curved ends of the fingers to move down until the bundles will dump or be dropped from the carrier. Thus is effected the automatic dropping, the weight of the bundles operating to tilt the fingers so as to permit the accumulated bundles to slide off.

To hold the fingers in proper position until the desired number of bundles has accumulated, I provide the cranks a' , the pitman E, connecting such cranks a' , the connecting-shaft F, having a crank f connected with pitman E, and a crank f' connected with rod G, which in turn connects with foot-lever or trip H.

In practice the shaft F is journaled in suitable bearings on the front of the A-frame of the harvester, and the rod G extends along the foot-board of the harvester to the foot-lever H, which is supported on such foot-board below and in convenient reach of the driver, who, by resting his foot on the foot-lever and pressing the same down, can, through the described connection, draw the pitman E forward and adjust the fingers to position to receive the bundles, and can hold the fingers in such position until it is desired to dump the bundles, when, by simply releasing the foot-lever, the weight of the bundles will turn the fingers back until their outer curved ends are lowered sufficiently to permit the bundles to slide off, as desired.

It will be seen that the arrangement of

cranks a^2 is such that weight or downward pressure on the fingers acts to depress such cranks or turn the cranks back, and causes the fingers to turn back, and so lower their 5 outer upturned ends.

It is manifest that the improvement may be applied to right or left hand cut binders without departing from the principles of the invention; also, that while the construction, 10 if devices as shown for retaining the fingers in position to receive and support the bundles are preferred, such devices may be varied without departing from some of the broad principles of the invention.

It will be seen that this bundle-carrier is not connected with the binding apparatus, so that the removal of one will not effect the operation of the other.

Having thus described my invention, what I claim is—

1. In a bundle-carrier, the combination of the carrier-frame, the fingers having axle portions journaled in said frame and provided at the inner side of said frame with cranks 25 a' , and at the outer side thereof with upwardly-projected cranks a^2 , the pitman connecting the cranks a' , and the operating or holding devices connected with said pitman, substantially as set forth.

30 2. The combination, in a bundle-carrier, of the carrier-frame, the fingers having axle

portions a journaled in said frame and provided with cranks $a' a^2$, the pitman E, connecting the cranks a' , the shaft F, having crank f connected with pitman E, and a crank 35 f' , the rod G, connected with crank f' , and the foot-lever, all substantially as and for the purposes set forth.

3. In a bundle-carrier, the combination, with a carrier-frame, of fingers journaled 40 thereto and provided with double cranks—that is to say, one crank by which to effect the automatic dumping of the bundles and a second crank for the connection of the holding devices by which to prevent at will such 45 automatic dumping, substantially as set forth.

4. The improved bundle-carrier for harvesters, consisting of the standards C, having arms C' , the frame B, having side and end bars $b b' b^2$, and supported on arms C' , the fin- 50 gers having axle portions a journaled in frame B, and cranks $a' a^2$ at the inner and outer sides of such frame, the pitman E, and the holding devices connected therewith, all substantially as and for the purposes set 55 forth.

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

CLAAS F. HIEBERT.

Witnesses:

F. W. HIEBERT,
GEO. MILLER.