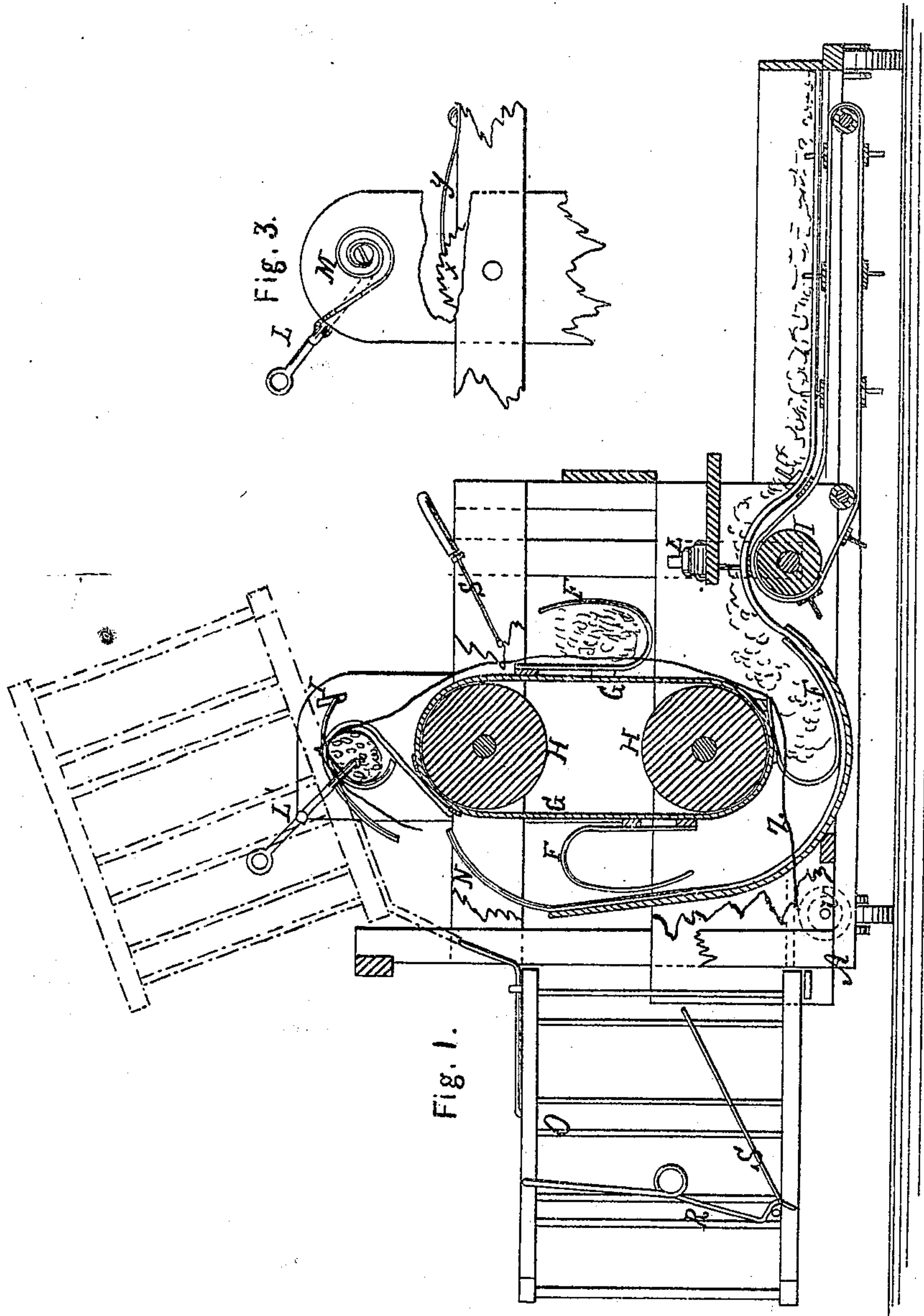


J. H. Mudgett.

Grain Binder.

Nº 95714

Patented Oct. 12, 1869



Witnesses.

Chas. Nida.
Winchman

Inventor.

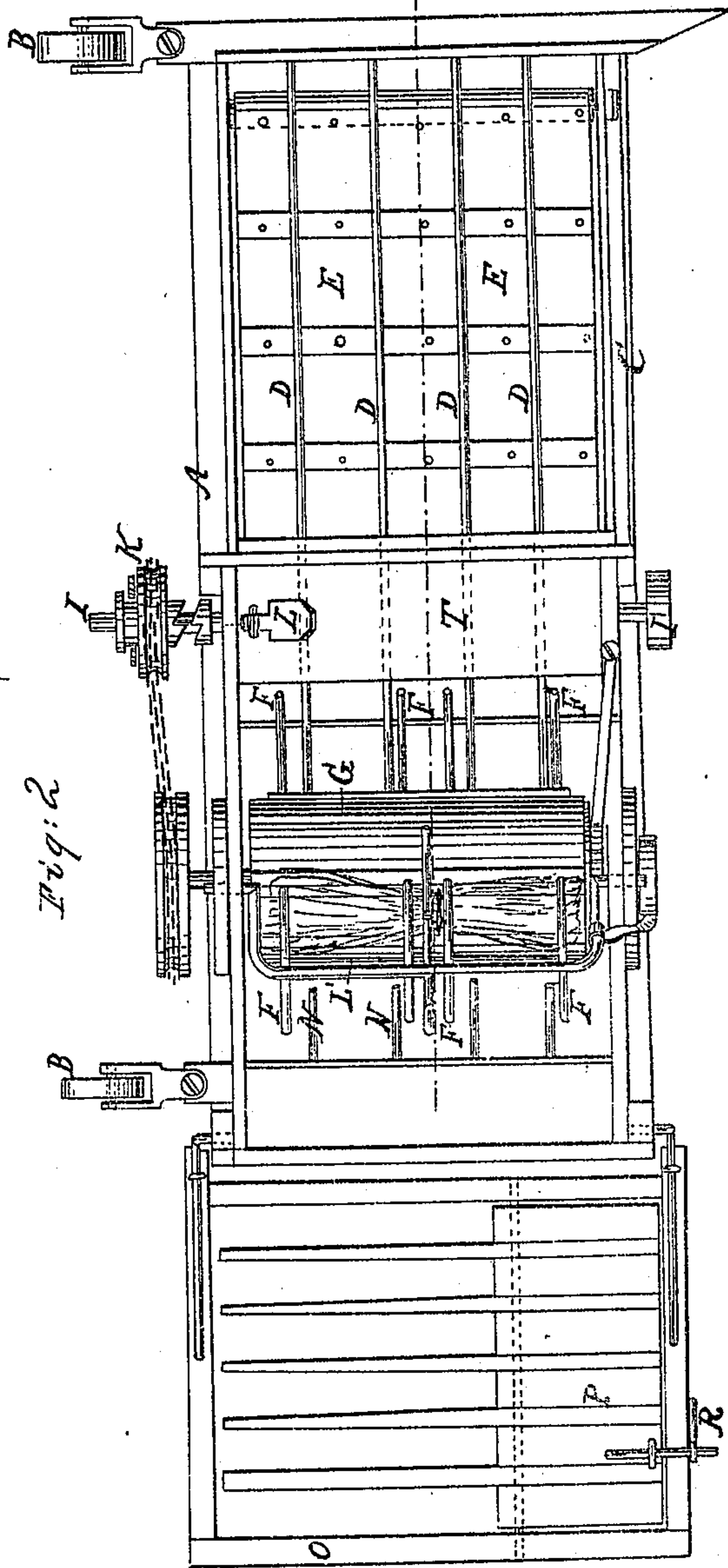
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UNITED STATES PATENT OFFICE.

J. H. MUDGETT, OF CAMANCHE, IOWA.

IMPROVEMENT IN GRAIN-BINDERS.

Specification forming part of Letters Patent No. 95,714, dated October 12, 1869.

To all whom it may concern:

Be it known that I, J. H. MUDGETT, of Camanche, in the county of Clinton and State of Iowa, have invented a new and Improved Binding Attachment for Reaping-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The object of this invention is to provide a simple and efficient binding attachment for reaping-machines, which will receive the grain from the reaper and present it in bunches or gavels to the attendant, and place the binding-cord in a convenient position to enable him to tie it quickly and discharge the sheaves so bound into a carrying-rack, where they are retained until a sufficient number accumulate to form a shock, when they may all be discharged together by the pulling of a trip-catch, all as hereinafter more fully specified.

Figure 1 represents a longitudinal sectional elevation of my improved machine. Fig. 2 represents a plan view of the same, and Fig. 3 represents a detail view.

Similar letters of reference indicate corresponding parts.

A represents the frame of the attachment, which is supported at the rear on two casters, B, and designed to be attached in the part C to the sickle-bar of any reaping-machine having the said sickle-bar attached at the rear, so that the grain will fall upon the rods D, under which an endless belt, E, having teeth projecting up above the rods, works to carry the grain along to and deliver it in the hooked arms F of a vertical elevator-strap, G, working over the two rollers H. This elevator and the carrier E are operated by the shaft I, having a pulley at the front end, arranged to be operated by a belt from any competent moving part of the reaping-machine.

The vertical carrier is designed to have an intermittent motion to permit the arms to lie in the receiving position until a sufficient amount has accumulated for a bundle, and also to give the attendant time to tie the bands or cords, and for this purpose I gear the wheel K, which drives the elevator to its shaft, by a clutch, for ready connection and

disconnection, and I connect the said clutch-wheel to a spring foot-treadle, L, which instantly throws the wheel out of connection when the foot is taken off.

L' represents a forked stop and discharger, supported on a transverse cranked shaft, which is maintained in the position represented in the drawing by a spring, M, applied to the frame.

N represents guards to secure the passage of the bundles when discharged into the rack O, which is provided with a dumping-bottom, P, held in position by a spring-catch, R, and provided with a tripping-cord, S. When the required amount of grain has accumulated in one set of arms, F, the attendant, standing on the bridge T, places his foot upon the treadle L, gearing the wheel K with the shaft, and causing the elevator to move upward until the grain in the said arms strikes in the crotch of the discharger L', which arrests the carrier G at the right point for binding, the clutch being simultaneously thrown out. In this position the cord T, which is carried up by the carrier, to which it adheres by frictional contact, from the spool U under the grain, is taken by the attendant and tied around the bundle, being first cut on a knife suspended in the end of one of the prongs of the discharger, as shown at I. After being so tied, the bundle is ejected from the arms F by a sudden jerk given to the discharger by the operator drawing the upper end toward him. The said bundle falls into the rack O, as above stated.

The accumulated bundles are discharged through the trap-door or bottom, when required, by the accumulation of the weight thereof at one side of the axis of the door, which is not at the center of the said door, when the spring-catch R is drawn back by the operator. The door closes by its own gravity when relieved of the weight of the bundles.

The rack O is connected to the frame, so as to swing over to the top thereof, as represented, when required.

The upper roller of the elevator G is provided with a ratchet-wheel, X, and spring-pawl Y, to prevent it from moving backward when disconnected from the shaft I.

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

1. The combination, in a reaper attachment, of the carrier E, elevator G, arms F, and stop or discharger L', all substantially as specified.

2. The arrangement of the carrier E, bridge T, elevator G, spring shifter-treadle L, driving-shaft I, and pulleys for operating the elevators G, all substantially as specified.

3. The combination, with arm F on elevator G, of stop L, arranged to operate as set forth.

4. The rack O, arranged to swing over to and rest on the frame, as specified.

J. H. MUDGETT.

Witnesses:

MARTIN DUNNING,
W. R. HANTZ.