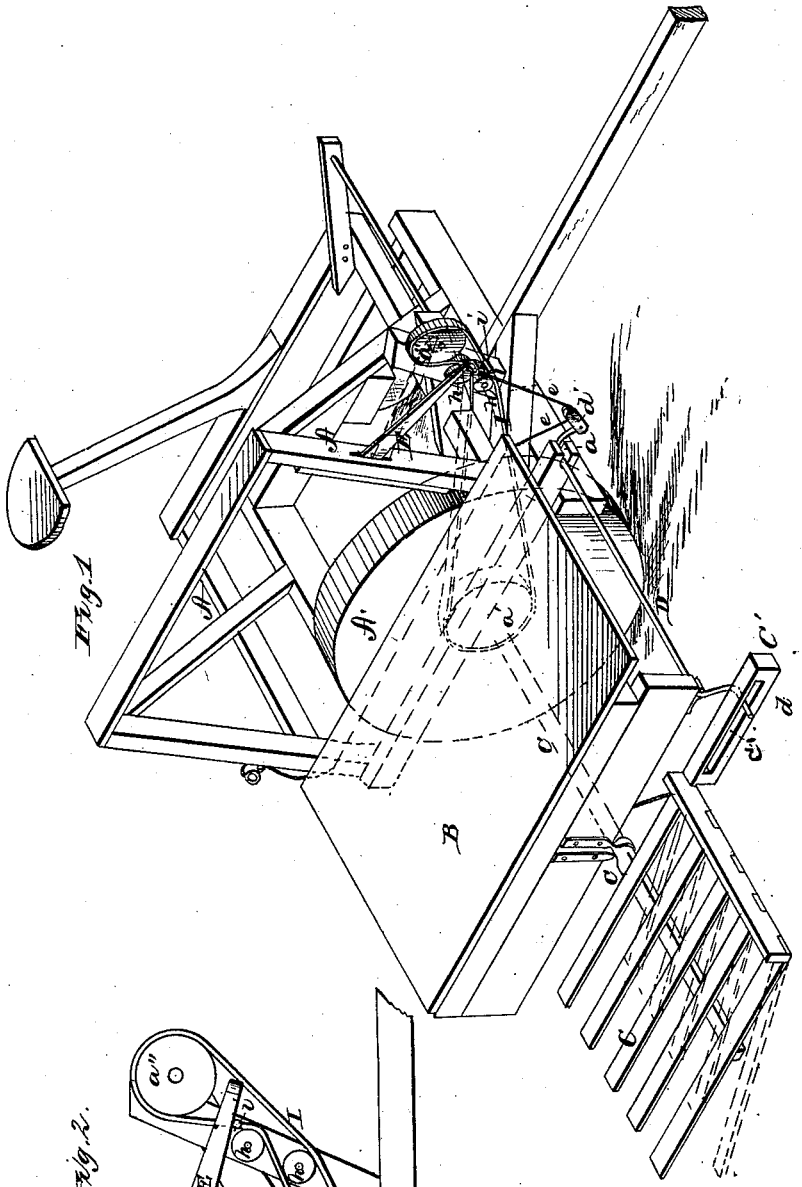
J. BRANNING.

Sheaf-Dropper for Grain-Binders.

No. 206,530. Patented July 30, 1878.



Witnesses.
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UNITED STATES PATENT OFFICE.

JOSEPH BRANNING, OF BLOOMING PRAIRIE, MINNESOTA.

IMPROVEMENT IN SHEAF-DROPPERS FOR GRAIN-BINDERS.

Specification forming part of Letters Patent No. **206,530,** dated July 30, 1878; application filed June 15, 1878.

To all whom it may concern:

Be it known that I, JOSEPH BRANNING, of Blooming Prairie, in the county of Steele and State of Minnesota, have invented certain new and useful Improvements in Self-Acting Bundle Carrier and Dropper for Grain-Binders, of which the following is a specification:

Figure 1 is a perspective view, showing present invention in position for use on a harvester. Fig. 2 is a detail, to show mechanism for operating the device.

The object of the present invention is to produce an attachment for harvesters and like machines; and consists in an improvement in mechanism for operating droppers automatically.

In the accompanying drawings, A denotes a harvester or any like machine, of any usual or ordinary construction, having attached to it the binding-table B. To this harvester A, and in convenient relation to the binding-table, is connected the tilting carrier and dropper C. This is so placed at one side of and below the binding-table that the bundle falling or moved therefrom will, without any shock or jar, easily reach the carrier or dropper. This carrier or dropper is secured to and has motion upon a shaft or axis, *c*, which operates in stays or seats in the frame of the machine, and is adapted and secured thereto for that purpose in any convenient way or manner. At one end of the inner side of the carrier is secured the arm C′, having a longitudinal slot, *c′*, in which the pin *d* of crank-shaft D plays back and forth, and in such movements tilts the carrier and dropper, as now indicated in dotted lines in Fig. 1. The other end of said crank-shaft is journaled in the frame of the machine, as now shown at *a;* and the crank-arm *d′* at this end of said shaft D is connected by cord or band *e* to the outer end of the arm E, which arm, at its other end, is hinged to the machine so that it can have an up-and-down motion. By means of pin or stud *i* on band I this arm E can be thus made to rise, and when said pin has passed by the arm it will fall back by gravity into its original position, ready to be operated upon again by said stud when, in the movements of the band, it shall reach the arm E. This motion of the band is caused by the revolutions of the boss *a′* on the axle of wheel A′ of the machine, said band passing over this boss and over wheel *a″*, suitably mounted in the front part of the machine. By this movement of the arm E a tilting motion is imparted to the carrier and dropper C, and when said stud has passed by said arm the said carrier will, by gravity, be automatically restored to its original and horizontal position.

If desired, the band I may be carried over friction-rolls *h h*, intermediate between boss *a′* and wheel *a″*.

This attachment for devices of this character has been found to be of very great practical utility, not only in helping save labor, but in insuring proper and safe handling of the grain bundles or sheaves.

Having thus described my invention, what I consider new, and desire to secure by Letters Patent, is—

The grain-carrier C, combined with the binding-table B, and adapted to be automatically operated by means of crank-arm D, band I, lever E, and wheel A, in conjunction with the movements of the machine, substantially as and for the purposes set forth.

In testimony that I claim the foregoing as my own I do now affix my signature in presence of two witnesses.

JOSEPH BRANNING.

Witnesses:

J. C. BRAINERD,

G. S. BURNHAM.